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August 14, 2018

Ms. Nicole Smith
New York State Department of Environmental Conservation
615 Erie Boulevard West
Syracuse, New York 13204-2400

Re: Solvay Wastebeds 9-15 Site, Towns of Camillus and Geddes, Onondaga County, NY
Site No. 7-34-076
Index # D-7-0001-02-03 – Closure Investigation Report

Dear Ms. Smith:

In accordance with the referenced Consent Order, and your letter dated August 3, 2018, this letter transmits the approved revised August 2018 Closure Investigation Report. The revisions incorporate the March 16, 2018 responses to the Department's March 2, 2018 comments.

Please contact Maureen Markert of OBG at 315-956-6506 or me if you have any questions or comments.

Sincerely,

John P. McAuliffe by CLC

John P. McAuliffe, P.E.
Remediation Director

Encl.

cc:	Reggie Parker	NYSDEC Region 7 (ec/cd)	Maureen Markert	OBG (ec)
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August 6, 2018

John P. McAuliffe, P.E.
Program Director, Honeywell International, Inc.
301 Plainfield Road
Suite 330
Syracuse, New York 13212

Subject: Honeywell Wastebeds 9-15
Closure Investigation Report Approval

Dear Mr. McAuliffe:

This letter serves as written approval of the response to comments dated March 16, 2018 and hereby approves the Closure Investigation Report (CIR) for Wastebeds 9-15.

Please submit an electronic copy of the revised CIR that incorporates the approved comments within 10 days of this letter.

You are reminded that a Final Site Closure Plan for Wastebeds 9-15 must be submitted within ninety (90) calendar days of the date of this approval letter, in accordance with Appendix E(IV) of Order on Consent D-7-0001-02-03.

If you have any questions, please contact me at (315)426-7517 or nicole.smith1@dec.ny.gov.

Sincerely,

Nicole J. Smith, P.E.
Assistant Engineer (Environmental)

Ecc: Thomas E. Annal, P.E. – NYSDEC Syracuse
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Christopher Calkins – O'Brien & Gere
Thomas Conklin – O'Brien & Gere

REVISED REPORT

Closure Investigation
Wastebeds 9 – 15 Site
Geddes and Camillus, New York

Honeywell

August 2018

1163 | 48127

Closure Investigation Wastebeds 9-15 Site

Geddes and Camillus, New York

Prepared for:

Honeywell



CHRISTOPHER C. CALKINS, SENIOR VICE PRESIDENT
O'BRIEN & GERE, INC. OF NORTH AMERICA

TABLE OF CONTENTS

List of Tables ..... **v**
Tables In Text v
Attached Tables v
List of Figures ..... **viii**
List of Appendices ..... **ix**
List of Attachments ..... **x**
List of Acronyms and Abbreviations ..... **xi**
Executive Summary xiv
1. Introduction 1
1.1. General 1
1.2. Project Objectives 1
1.3. Document Format 1
2. Site Description and Background Information 2
2.1. General Background 2
2.1.1. Solvay Waste 2
2.1.2. Wastebeds 9 through 11 2
2.1.3. Wastebeds 12 through 15 3
2.1.4. Leachate Collection and Conveyance System and Associated pH Adjustment 4
2.1.5. Evapotranspiration Cover Program 6
2.1.6. Berm Stabilization and Erosion Control 7
2.2. Site Access and Security 8
2.3. Previous Investigations 8
3. Closure Investigation 11
3.1. Site Environmental Media Investigation 11
3.1.1. Access Agreements 11
3.1.2. Marking of Subsurface Utilities 11
3.1.3. Ninemile Creek Tracer Test 12
3.1.3.1. Tracer Test Injection Point Setup 12
3.1.3.2. Tracer Injection 12
3.1.3.3. Tracer Test Sampling 13
3.1.3.4. Tracer Test Surface Water Flow Measurements 13
3.1.3.5. Tracer Test Completion 13
3.1.4. Monitoring Well Installation 14
3.1.4.1. Shallow and Intermediate Monitoring Wells 14
3.1.4.2. Deep Monitoring Wells 15
3.1.4.3. Bedrock Monitoring Wells 15
3.1.5. Geotechnical Assessment 16

3.1.6. Monitoring Well Development 16
3.1.7. Hydraulic Conductivity Testing 17
3.1.8. Groundwater Elevation Monitoring 18
3.1.8.1. Equivalent Fresh Water Head Calculations 18
3.1.9. Surface Water Elevation Monitoring 19
3.1.10. Groundwater Quality Sampling and Analysis 19
3.1.11. Subsurface Leachate Sampling 23
3.1.12. Surface Water Sampling 25
3.1.13. Sediment Sampling 26
3.1.14. Phase 1 SAA Work, Soil Sampling, and Macroinvertebrate Sampling 27
3.1.15. Site Topographic and Location Survey 27
3.1.16. Residential Well Survey 27
3.1.17. Air Sampling 27
3.2. Site Explosive Gas Investigation 27
3.3. Site Surface Leachate Investigation 28
3.3.1. February 2012 28
3.3.2. August 2012 28
3.3.3. December 2012 28
3.3.4. March 2013 28
3.4. Site Vector Investigation 29
3.5. Data Management 29
3.6. Data Validation 29
4. Study Area Physical Characteristics 31
4.1. Location 31
4.2. Site Topography and Drainage 31
4.3. Climate 31
4.4. Regional Geologic Setting 31
4.5. Site Geologic Setting 32
4.6. Regional Hydrogeology and Hydrology 33
4.6.1. Surface Water 33
4.6.2. Groundwater 33
4.7. Hydraulic Conductivity Estimates 33
4.7.1. Shallow Fill Zone 34
4.7.2. Native Overburden 34
4.7.3. Glaciolacustrine Deposits 34
4.7.4. Mixed Ninemile Creek Deposits 35
4.7.5. Till 35
4.7.6. Bedrock 35
4.8. Site Hydrogeology and Hydrology 35
4.8.1. Surface Water 35

4.8.2. Groundwater 35
4.8.2.1. Solvay Waste/Shallow Fill Unit 36
4.8.2.2. Glaciolacustrine Unit 36
4.8.2.3. Shallow Native Unit 37
4.8.2.4. Intermediate Native Unit 37
4.8.2.5. Deep Native Unit 37
4.8.2.6. Till Unit 38
4.8.2.7. Bedrock Unit 38
4.9. Groundwater Geochemistry 38
4.9.1. Leachate 39
4.9.2. Native Overburden/Fresh 39
4.9.3. Mix of Native Overburden and Leachate 39
4.9.4. Native Halite Brine 40
4.9.5. Mix of Native Leachate and Brine 40
4.9.6. Unknown Brine 40
4.9.7. Distribution of Water Types by Unit 40
4.9.8. Discussion 42
5. Closure Investigation Results and Nature and Extent of Constituents 43
5.1. Nature and Extent of Constituents 43
5.2. Site Characterization of Analytical Results 44
5.2.1. Groundwater 44
5.2.1.1. Shallow Groundwater – Solvay Waste/Shallow Fill 44
5.2.1.2. Shallow Groundwater – Native 45
5.2.1.3. Intermediate Groundwater 46
5.2.1.4. Deep Groundwater 47
5.2.1.5. Bedrock Groundwater 48
5.2.2. Subsurface Leachate 48
5.2.2.1. Wastebeds 12 through 15 49
5.2.2.2. Wastebeds 9 through 11 49
5.2.3. Surface Leachate 50
5.2.4. Surface Water 51
5.2.4.1. Site Surface Water 51
5.2.4.2. Ninemile Creek Surface Water 52
5.2.5. Ninemile Creek Sediment 53
5.2.6. Ninemile Creek Tracer Test 54
5.2.7. Phase 1 SAA 55
6. Constituent Fate and Transport 56
6.1. Transport of Constituents from Soil to Surface Water Bodies via Surface Water Runoff 56
6.2. Transport of Constituents to the Leachate Collection Systems 56
6.3. Groundwater Transport of Constituents 57

6.4. Wind-borne Migration of Constituents on Particles 57
6.5. Vapor Migration of Volatile Constituents 57
7. Conceptual Site Model 58
7.1. Hydrogeology 58
7.2. Source Areas 59
7.3. Preliminary Constituents of Interest 59
7.4. Impacted Media and Potential Transport of Preliminary COIs 59
8. Conclusions 61
9. Future Activities 64
References 65

LIST OF TABLES

TABLES IN TEXT

3-1 Monitoring Well Installation
3-2 Summary of Geotechnical Sampling Intervals
3-3 Summary of Hydraulic Conductivity Measurement Locations
3-4 Groundwater Sample Location Analytical Testing Summary
3-5 Subsurface Leachate Sample Locations and Analytical Summary
3-6 Surface Water Sample Location Analyses Summary
3-7 Sediment Sample Locations Analyses Summary
4-1 Summary of Estimated Hydraulic Conductivity

ATTACHED TABLES

1 NMC Tracer Test Anions and Cations Data
2 Monitoring Well Groundwater Elevations
3 Estimated Hydraulic Conductivity Analytical Summary
4 Subsurface Leachate Water Quality Measurements
5 Surface Water Quality Measurements
6 Summary of Key Groundwater Geochemistry Values – July 2012
7 Volatile Organic Compound Data – Round 1 Groundwater
8 Semivolatile Organic Compound Data – Round 1 Groundwater
9 Method 8081 Pesticide Data – Round 1 Groundwater
10 Method 8141 Pesticide Data – Round 1 Groundwater
11 Herbicide Data – Round 1 Groundwater
12 PCB Congener and Homolog Data – Round 1 Groundwater
13 Inorganic Compound Data – Round 1 Groundwater
14 Dioxins/Furans Data – Round 1 Groundwater
15 Other Data – Round 1 Groundwater
16 Dioxins/Furans Equivalence Summary Data – Round 1 Groundwater
17 Volatile Organic Compound Data – Round 2 Groundwater
18 Semivolatile Organic Compound Data – Round 2 Groundwater
19 Method 8081 Pesticide Data – Round 2 Groundwater
20 Method 8141 Pesticide Data – Round 2 Groundwater
21 Herbicide Data – Round 2 Groundwater
22 PCB Congener and Homolog Data – Round 2 Groundwater
23 Inorganic Compound Data – Round 2 Groundwater
24 Dioxins/Furans Data – Round 2 Groundwater
25 Other Data – Round 2 Groundwater
26 Dioxins/Furans Equivalence Summary Data – Round 2 Groundwater
27 Volatile Organic Compound Data – Round 3 Groundwater
28 Inorganic Compound Data – Round 3 Groundwater
29 Other Data – Round 3 Groundwater
30 Volatile Organic Compound Data – Round 4 Groundwater
31 Inorganic Compound Data – Round 4 Groundwater
32 Other Data – Round 4 Groundwater

33 Solvay Waste/Shallow Fill Groundwater Summary Statistics for Detected Constituents and Comparison to Standards and Guidance Values
34 Shallow Native Groundwater Summary Statistics for Detected Constituents and Comparison to Standards and Guidance Values
35 Intermediate Native Groundwater Summary Statistics for Detected Constituents and Comparison to Standards and Guidance Values
36 Deep Native Groundwater Summary Statistics for Detected Constituents and Comparison to Standards and Guidance Values
37 Bedrock Groundwater Summary Statistics for Detected Constituents and Comparison to Standards and Guidance Values
38 Volatile Organic Compound Data – Round 1 Subsurface Leachate
39 Semivolatile Organic Compound Data – Round 1 Subsurface Leachate
40 Method 8081 Pesticide Data – Round 1 Subsurface Leachate
41 Method 8141 Pesticide Data – Round 1 Subsurface Leachate
42 Herbicide Data – Round 1 Subsurface Leachate
43 PCB Congener and Homolog Data – Round 1 Subsurface Leachate
44 Inorganic Compound Data – Round 1 Subsurface Leachate
45 Dioxins/Furans Data – Round 1 Subsurface Leachate
46 Other Data – Round 1 Subsurface Leachate
47 Dioxins/Furans Equivalence Summary Data – Round 1 Subsurface Leachate
48 Inorganic Compound Data – Round 2 Subsurface Leachate
49 Other Data – Round 2 Subsurface Leachate
50 Volatile Organic Compound Data – Round 3 Subsurface Leachate
51 Semivolatile Organic Compound Data – Round 3 Subsurface Leachate
52 Method 8081 Pesticide Data – Round 3 Subsurface Leachate
53 Method 8141 Pesticide Data – Round 3 Subsurface Leachate
54 Herbicide Data – Round 3 Subsurface Leachate
55 PCB Congener and Homolog Data – Round 3 Subsurface Leachate
56 Inorganic Compound Data – Round 3 Subsurface Leachate
57 Dioxins/Furans Data – Round 3 Subsurface Leachate
58 Other Data – Round 3 Subsurface Leachate
59 Dioxins/Furans Equivalence Summary Data – Round 3 Subsurface Leachate
60 Volatile Organic Compound Data – Round 4 Subsurface Leachate
61 Semivolatile Organic Compound Data – Round 4 Subsurface Leachate
62 Method 8081 Pesticide Data – Round 4 Subsurface Leachate
63 Method 8141 Pesticide Data – Round 4 Subsurface Leachate
64 Herbicide Data – Round 4 Subsurface Leachate
65 PCB Congener and Homolog Data – Round 4 Subsurface Leachate
66 Inorganic Compound Data – Round 4 Subsurface Leachate
67 Dioxins/Furans Data – Round 4 Subsurface Leachate
68 Other Data – Round 4 Subsurface Leachate
69 Dioxins/Furans Equivalence Summary Data – Round 4 Subsurface Leachate
70 Wastebeds 12-15 Subsurface Leachate Summary Statistics for Detected Constituents and Comparison to Standards and Guidance Values
71 Wastebeds 9-11 Subsurface Leachate Summary Statistics for Detected Constituents and Comparison to Standards and Guidance Values

72 Volatile Organic Compound Data – Round 4 Surface Leachate
73 Semivolatile Organic Compound Data – Round 4 Surface Leachate
74 Method 8081 Pesticide Data – Round 4 Surface Leachate
75 Method 8141 Pesticide Data – Round 4 Surface Leachate
76 Herbicide Data – Round 4 Surface Leachate
77 PCB Congener and Homolog Data – Round 4 Surface Leachate
78 Inorganic Compound Data – Round 4 Surface Leachate
79 Dioxins/Furans Data – Round 4 Surface Leachate
80 Other Data – Round 4 Surface Leachate
81 Dioxins/Furans Equivalence Summary Data – Round 4 Surface Leachate
82 Volatile Organic Compound Data – Round 1 Surface Water
83 Semivolatile Organic Compound Data – Round 1 Surface Water
84 Method 8081 Pesticide Data – Round 1 Surface Water – PISCES Samples
85 Method 8081 Pesticide Data – Round 1 Surface Water – Water Samples
86 Method 8141 Pesticide Data – Round 1 Surface Water
87 Herbicide Data – Round 1 Surface Water
88 PCB Congener and Homolog Data – Round 1 Surface Water – PISCES Samples
89 PCB Congener and Homolog Data – Round 1 Surface Water – Water Samples
90 Inorganic Compound Data – Round 1 Surface Water
91 Dioxins/Furans Data – Round 1 Surface Water
92 Other Data – Round 1 Surface Water
93 Dioxins/Furans Equivalence Summary Data – Round 1 Surface Water
94 Inorganic Compound Data – Round 2 Surface Water
95 Other Data – Round 2 Surface Water
96 Volatile Organic Compound Data – Round 3 Surface Water
97 Semivolatile Organic Compound Data – Round 3 Surface Water
98 Method 8081 Pesticide Data – Round 3 Surface Water
99 Method 8141 Pesticide Data – Round 3 Surface Water
100 Herbicide Data – Round 3 Surface Water
101 PCB Congener and Homolog Data – Round 3 Surface Water
102 Inorganic Compound Data – Round 3 Surface Water
103 Dioxins/Furans Data – Round 3 Surface Water
104 Other Data – Round 3 Surface Water
105 Dioxins/Furans Equivalence Summary Data – Round 3 Surface Water
106 PCB Congener and Homolog Data – Round 4 Surface Water – PISCES Samples
107 PCB Congener and Homolog Data – Round 4 Surface Water – Water Samples
108 Inorganic Compound Data – Round 4 Surface Water
109 Other Data – Round 4 Surface Water
110 Site Surface Water Summary Statistics for Detected Constituents and Comparison to Standards and Guidance Values
111 Ninemile Creek Surface Water Summary Statistics for Detected Constituents and Comparison to Standards and Guidance Values
112 Volatile Organic Compound Data – Round 1 NMC Sediment
113 Semivolatile Organic Compound Data – Round 1 NMC Sediment
114 Method 8081 Pesticide Data – Round 1 NMC Sediment
115 Herbicide Data – Round 1 NMC Sediment

116 PCB Congener and Homolog Data – Round 1 NMC Sediment
117 Inorganic Compound Data – Round 1 NMC Sediment
118 Dioxins/Furans Data – Round 1 NMC Sediment
119 Other Data – Round 1 NMC Sediment
120 Dioxins/Furans Equivalence Summary Data – Round 1 NMC Sediment
121 Method 8141 Pesticide Data – Round 4 NMC Sediment
122 PCB Congener and Homolog Data – Round 4 NMC Sediment
123 Other Data – Round 4 NMC Sediment
124 Relevant Environmental Fate Data

LIST OF FIGURES

1 Site Location Plan
2 Site Plan
3 Topographic Map
4 Ninemile Creek Tracer Test Locations
5 NMC Tracer Test – Reach #1
6 NMC Tracer Test – Reach #2
7 NMC Tracer Test – Reach #3
8 NMC Tracer Test – Reach #4
9 NMC Tracer Test – Reach 1 Results
10 NMC Tracer Test – Reach 2 Results
11 NMC Tracer Test – Reach 3 Results
12 NMC Tracer Test – Reach 4 Results
13 Monitoring Well Sample Locations
14 Well Construction Detail
15 Groundwater Elevation Locations
16 Subsurface Leachate Sample Locations
17 Surface Water and Sediment Sample Locations
18 Observed Seep Locations
19 Surface Water Drainage
20 Regional Surficial Geology
21 Regional Bedrock Geology
22 Approximate Extent of Silt and Clay
23 Geological Cross-Section Locations
24 Cross-Section A-A'
25 Cross-Section B-B'
26 Cross-Section C-C'
27 Cross-Section D-D'
28 Cross-Section E-E'
29 Cross-Section F-F'
30 Cross-Section G-G'
31 Top of Till Surface Elevation
32 Till Thickness
33 Top of Bedrock Elevation
34 Solvay Waste/Shallow Fill Groundwater Elevations – April 2012

35 Solvay Waste/Shallow Fill Groundwater Elevations – July 2012
36 Solvay Waste/Shallow Fill Groundwater Elevations – October 2012
37 Solvay Waste/Shallow Fill Groundwater Elevations – January 2013
38 Shallow Native Groundwater Elevation Contours – April 2012
39 Shallow Native Groundwater Elevation Contours – July 2012
40 Shallow Native Groundwater Elevation Contours – October 2012
41 Shallow Native Groundwater Elevation Contours – January 2013
42 Intermediate Native Groundwater Elevation Contours – April 2012
43 Intermediate Native Groundwater Elevation Contours – July 2012
44 Intermediate Native Groundwater Elevation Contours – October 2012
45 Intermediate Native Groundwater Elevation Contours – January 2013
46 Deep Native Groundwater Elevation Contours – April 2012
47 Deep Native Groundwater Elevation Contours – July 2012
48 Deep Native Groundwater Elevation Contours – October 2012
49 Deep Native Groundwater Elevation Contours – January 2013
50 Bedrock Groundwater Elevation Contours – April 2012
51 Bedrock Groundwater Elevation Contours – July 2012
52 Bedrock Groundwater Elevation Contours – October 2012
53 Bedrock Groundwater Elevation Contours – January 2013
54 Solvay Waste Groundwater Geochemistry – July 2012
55 Shallow Native Groundwater Geochemistry – July 2012
56 Intermediate Native Groundwater Geochemistry – July 2012
57 Deep Native Groundwater Geochemistry – July 2012
58 Bedrock Groundwater Geochemistry – July 2012
59 Conceptual Site Model – Wastebeds 12 and 14
60 Conceptual Site Model – Wastebed 13
61 Conceptual Site Model – Wastebeds 9-11

LIST OF APPENDICES

A Records Search Report *(on CD)*
B Ninemile Creek Tracer Test Field Logs *(on CD)*
C Boring Logs *(on CD)*
D Well Development Logs *(on CD)*
E Hydraulic Conductivity Plots *(on CD)*
F Groundwater Sampling Logs *(on CD)*
- F-1 Round 1 (April, May, & June 2012) Groundwater Sampling Logs
- F-2 Round 2 (July 2012) Groundwater Sampling Logs
- F-3 Round 3 (October & November 2012) Groundwater Sampling Logs
- F-4 Round 4 (February 2013) Groundwater Sampling Logs

G Chains of Custody *(on CD)*
- G-1 Round 1 Groundwater
- G-2 Round 2 Groundwater
- G-3 Round 3 Groundwater
- G-4 Round 4 Groundwater
- G-5 Round 1 through 4 Subsurface Leachate
- G-6 Round 1 through 4 Surface Water

G-7 Round 1 and 4 Sediment
G-8 Round 4 Surface Leachate
H Part 360 Analytical Parameter Lists
H-1 Expanded Parameters List
H-2 Routine Parameters List
H-3 Baseline Parameters List
I Phase 1 SAA Scope of Work *(on CD)*
J Geochemical Stiff Diagrams *(on CD)*
K Analytical Concentrations Plots
K-1 Solvay Waste/Shallow Fill Groundwater
K-2 Shallow Native Groundwater
K-3 Intermediate Native Groundwater
K-4 Deep Native Groundwater
K-5 Bedrock Groundwater
K-6 Subsurface and Surface Leachate
K-7 Surface Water
K-8 Ninemile Creek Sediment
L Phase 1 SAA Investigation Report
M SCA Water Treatment Plant Soil Vapor Sampling Technical Memorandum *(on CD)*

LIST OF ATTACHMENTS

1 *Measurement of Discharge Using Tracers* (Kilpatrick and Cobb, 1985)
2 Geotechnical Analysis Results
3 Equivalent Fresh Water Head Calculation Details
4 EDR Report
4-1 EDR Report *(on CD)*
4-2 Map of EDR Search Radius
5 BB&L 1989 Top of Bedrock Figure

LIST OF ACRONYMS AND ABBREVIATIONS

AMSL	Above Mean Sea Level
ASTM	American Society for Testing and Materials
BB&L	Blasland, Bouck & Lee
BEHP	Bis(2-ethylhexyl)phthalate
bgs	Below Ground Surface
BOD	Biochemical Oxygen Demand
BR	Bedrock
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes (Total)
C&D	Construction and Demolition
C&S	Calocerinos & Spina Engineers, Inc.
$CaCO_3$	Calcium Carbonate
CB	Chlorinated Biphenyl
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
cfs	Cubic Feet per Second
CIWP	Closure Investigation Work Plan
COC	Chain of Custody
COD	Chemical Oxygen Demand
COI	Constituent of Interest
CSM	Conceptual Site Model
CY	Cubic Yards
EBP	Environmental Benefit Project
EDR	Environmental Data Resources, Inc.
EFH	Equivalent Fresh Water Head
ET	Evapotranspiration
FCPS	Former County Pump Station
Ft	Foot/Feet
HDPE	High Density Polyethylene
HRGC/HRMS	High Resolution Gas Chromatography/High Resolution Mass Spectrometry
IM	Interim Measure
Inc.	Incorporated
IRM	Interim Remedial Measure
K-Test	Hydraulic Conductivity Test
LCCS	Leachate Collection and Conveyance System
meq	Milliequivalent

Metro WWTP	Syracuse Metropolitan Wastewater Treatment Plant
MGD	Million Gallons per Day
OC	Organic Carbon
mS/cm	Millisiemens per Centimeter
MW	Monitoring Well
NaCl	Sodium Chloride (Rock Salt)
NAD	North American Datum
NAVD	North American Vertical Datum
NMC	Ninemile Creek
NOAA	National Oceanic and Atmospheric Administration
NS	Not Sampled
NTU	Nephelometric Turbidity Unit
NYCRR	New York Code of Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
OCDWEP	Onondaga County Department of Environmental Protection
ORP	Oxidation Reduction Potential
PAHs	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyl
PCDD/F	Polychlorinated Dibenzo-p-dioxin/Polychlorinated Dibenzofuran
PID	Photoionization Detector
PISCES	Passive *In Situ* Concentration Extraction Sampler
ppb	Parts Per Billion
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
SAA	Surrounding Affected Area
SCA	Sediment Consolidation Area
SMR	Self-Monitoring Report
SOP	Standard Operating Procedure
SPDES	State Pollution Discharge Elimination System
S.U.	Standard Units
SUNY ESF	State University of New York of Environmental Science and Forestry
SVOC	Semivolatile Organic Compounds
TCDD	Tetrachlorinated Dibenzo-p-dioxin
TDS	Total Dissolved Solids
TEQ	Toxic Equivalent

TKN	Total Kjeldahl Nitrogen
TOC	Total Organic Carbon
US	United States
USEPA	United States Environmental Protection Agency
USGS	United States Geologic Survey
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

Honeywell and the New York State Department of Environmental Conservation (NYSDEC) have entered into an Administrative Consent Order (D-7-0001-02-03) for the conduct of activities leading to the successful closure of the Wastebeds 9-15 Site in Camillus and Geddes, New York. The Wastebeds 9-15 Site was classified as a "Class 3" site by the NYSDEC in June 2000 (NYSDEC, 2000). By definition, sites classified as Class 3 do not pose a significant threat to the environment or public health. With that classification, closure of the Site is being administered under the NYSDEC's water and solid waste management programs.

Additionally, the United States Environmental Protection Agency (USEPA) has determined that no action under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 as amended (CERCLA, 42 U.S.C. §9601, *et seq*.) is required, and that no Superfund action will be taken at the Site (USEPA, 2011). That determination included a finding that "the available data indicates that the levels of contaminants from the [w]astebeds that are adjacent to Ninemile Creek are minimal." These determinations were based on previous investigations such as *Hydrogeologic Assessment of the Allied Waste Beds in the Syracuse Area* (Blasland, Bouck & Lee [BB&L], 1989) and *Geddes Brook/Ninemile Creek Remedial Investigation, Baseline Ecological Risk Assessment, and Human Health Risk Assessment* (NYSDEC, 2003). The results of the Closure Investigation (summarized below) support these regulatory determinations.

The closure of the Site encompasses an integrated program of environmental investigation, interim measures (IMs) to manage releases, a cover system, and environmental benefit projects (EBPs). This program represents an important step toward the overall closure of the Site and provides an opportunity to restore several hundred acres of property to productive use through a sustainable evapotranspiration (ET) cover system to generate biomass for the production of renewable energy or through industrial/commercial redevelopment opportunities which may be integrated into overall closure. Key elements of the closure program include:

- A comprehensive, Site-wide closure investigation, which is the subject of this Closure Investigation Report.
- Continued progress on IMs designed to mitigate seepage of leachate to the environment.
- Evaluation and upgrade of the existing Leachate Collection and Conveyance System (LCCS) to enhance its ability to capture leachate generated within the wastebeds.
- Stabilization of the wastebed berms to minimize the migration of wastebed materials through erosion.
- Amendment of wastebed soils with recycled organic material and planting of fast-growing shrub willows (and other plants) to create an ET cover system that will minimize the percolation of precipitation into the wastebeds, or proposal of alternate industrial/commercial redevelopment scenarios which accomplish site closure requirements.

This Closure Investigation Report is the initial component of the overall Wastebeds 9-15 Closure program. The objectives of the Closure Investigation were to collect data and information to address the following items.

- Evaluate and characterize the nature and extent of Site-related constituents of interest (COIs).
- Evaluate potential migration pathways of Site-related COIs off-site.
- Evaluate and characterize the Surrounding Affected Area (SAA).
- Provide the data necessary to develop a Final Closure Plan that provides protection to human health and the environment.

As part of this investigation four quarters of sampling were completed for the following media:

- Groundwater
- Surface Water
- Subsurface Leachate

- Surface Leachate

In addition to the quarterly sampling, quarterly groundwater elevation monitoring, geologic cross sections, groundwater flow maps, a Ninemile Creek (NMC) tracer test, a surface water drainage map, and a NMC macroinvertebrate assessment were completed to assist in the evaluation of Site conditions, and identify and define the potential migration pathways. Also, one round of sediment samples from NMC was collected during the Closure Investigation to evaluate potential impacts to this area from the Site and SAA.

Based on the investigation, organic and inorganic constituents were detected in Site and NMC media. The predominant COIs are Solvay waste-related (*i.e.*, calcium, sodium, and chloride), with their source being releases associated with the operation of the wastebeds and limited migration of Site leachate. The organic constituents were detected at lower concentrations and may be releases associated with the operation of the wastebeds, upstream sources, or anthropogenic sources.

The Phase 1 SAA investigation concluded that there was no Solvay waste present in the surrounding wetlands. The macroinvertebrate sampling completed during the Phase 1 SAA indicated that NMC habitat quality decreases as the creek flows from the Amboy Dam to the Geddes Brook confluence. Based on these data, sediment samples were collected from NMC. The NMC organic constituents appear to be predominantly from upstream sources, while the Site is currently introducing chloride and Solvay waste-related constituents to NMC along Wastebeds 9-11. Calcite formations are present in NMC adjacent to the wastebeds suggesting that leachate seeps have historically discharged to the creek. The ongoing Seeps Mitigation IM is designed to address residual leachate discharges.

A conceptual site model (CSM) developed for the Site is based on prior investigations and the data collected during this investigation. The nature and extent of COIs are defined sufficiently to complete a Closure Plan for the Site, and no further characterization is warranted at this time.

1. INTRODUCTION

1.1. GENERAL

This document is the Closure Investigation Report for the Wastebeds 9-15 Site (Site) and Surrounding Affected Area (SAA) in Geddes and Camillus, New York. A Site Location Plan is included as **Figure 1**, and a Site Plan is included as **Figure 2**. This Closure Investigation was performed pursuant to Administrative Consent Order D-7-0001-02-03 between the New York State Department of Environmental Conservation (NYSDEC) and Honeywell International Inc. dated December 6, 2010, 6 New York Code of Rules and Regulations (NYCRR) § 360-2.15(a) (NYSDEC, 1999a), the September 2011 Closure Investigation Work Plan (CIWP), and the July 5, 2012 Ninemile Creek (NMC) Surface Water and Sediment Sampling letter work plan.

Concurrent with this Closure Investigation, the remedial action for Reach CD on the Geddes Brook/NMC Site and the Geddes Brook Interim Remedial Measure (IRM) were being performed. These areas are presented on **Figure 2**. In relation to Wastebeds 9-15, Reach CD in NMC is located along Wastebeds 9/10, and the Geddes Brook IRM efforts are occurring in the wetland area between Wastebeds 12-15 and NMC and the drainage ditch from Outfall 019 and Geddes Brook. The downstream limit of the SAA investigation in NMC is defined by the Reach CD remedial action.

1.2. PROJECT OBJECTIVES

The objectives of the Closure Investigation are to:

- Evaluate and characterize the nature and extent of Site-related constituents of interest (COIs).
- Evaluate potential migration pathways of Site-related COIs off-site.
- Evaluate and characterize the SAA.
- Provide the data necessary to develop a Final Closure Plan that provides protection to human health and the environment.

1.3. DOCUMENT FORMAT

This document contains the following sections:

Section 1 – Introduction

Section 2 – Site Description and Background Information

Section 3 – Closure Investigation

Section 4 – Study Area Physical Characteristics

Section 5 – Closure Investigation Results and Nature and Extent of Constituents

Section 6 – Constituent Fate, Transport, and Persistence

Section 7 – Conceptual Site Model (CSM)

Section 8 – Conclusions

Section 9 – Future Activities

References

2. SITE DESCRIPTION AND BACKGROUND INFORMATION

2.1. GENERAL BACKGROUND

Wastebeds 9-15 are located in the towns of Camillus and Geddes, Onondaga County, New York (**Figure 1**). Wastebeds 9-15 cover approximately 662 acres (**Figure 2**). These wastebeds received Solvay waste between 1944 and 1985 generated by Allied Chemical via the Solvay Process. A discussion of Wastebeds 9-11 and Wastebeds 12-15 is presented below.

2.1.1. Solvay Waste

Solvay waste is a non-hazardous combination of process residuals, unreacted material, and mineral salts that were deposited as a chloride-rich slurry exhibiting an elevated pH (10 to 12 std. units [SU]) generated during the Solvay Process. This process utilized salt brine and limestone to produce soda ash (sodium carbonate; Blasland, Bouck & Lee [BB&L], 1989), and one of the soda ash's uses was to manufacture sodium bicarbonate, ammonium bicarbonate, sodium sesquicarbonate (PTI, 1992).

Residual Solvay waste is a sterile, inert, and inorganic accumulation of equigranular, silt-sized particles in brine. The substrate consists of calcium carbonate, calcium sulfate, calcium silicate, and magnesium hydroxide with no hazardous waste characteristics. The primary environmental concerns related to Solvay waste are its elevated pH and the brackish leachate that was originally generated as the wastebeds dewatered and later as precipitation percolated through the wastebeds (BB&L, 1989). In terms of physical properties, Solvay waste has a low bearing capacity and a high consolidation ratio.

2.1.2. Wastebeds 9 through 11

Wastebeds 9-11 cover approximately 126 acres and are situated above the original NMC bed (BB&L, 1989). NMC was rerouted in 1944 and moved to its current location along the southern boundary of Wastebeds 9-11. Dikes were constructed around the perimeter of the wastebeds prior to filling and were constructed of natural materials, Solvay waste, and cinders (BB&L, 1989). Solvay waste was deposited as slurry in the wastebeds from 1944 to 1968. In addition to receiving Solvay waste, Wastebeds 9-11 received smaller amounts of brine purification wastes, boiler bottom ash, and fly ash. The volume of Solvay waste and other materials placed within Wastebeds 9-11 is estimated to be 14,260,000 cubic yards (CY) (BB&L, 1989), and these wastebeds have a height of approximately 70 ft from the base. A topographic map is included as **Figure 3**.

Once the wastebeds no longer received Solvay waste, they were vegetated as part of a formal reclamation project (BB&L, 1989). A revegetation program was undertaken and completed in 1974 (Allied Chemical, 1975). The berms and tops of the wastebeds were included within this work, which was performed in conjunction of the Soil Conservation Service and the Plant Materials Section of the United States Department of Agriculture. Based on the results of the 1974 effort, additional revegetation was completed in subsequent years at the wastebeds.

Wastebeds 9/10 are contiguous and separated from Wastebed 11 by a large swale (the Interbed Area) that receives stormwater from the wastebeds and the property situated north of the Interbed Area. A conveyance system was constructed in the spring of 2005 to prevent flooding of the Interbed Area. The system includes a mechanical pump and 8-inch conveyance piping (**Figure 2**). Surface water is removed at the southeastern corner of the Interbed Area, pumped through the conveyance pipe, and discharged into the smaller retention pond at Wastebeds 12-15 (discussed below). This operation was authorized by the Onondaga County Department of Water Environment Protection (OCDWEP) on February 24, 2005.

Concurrently, Honeywell constructed a system to mitigate flooding of off-site property northeast of the Interbed Area. This system includes a dual chamber pump station and high density polyethylene (HDPE) conveyance piping. The pump station segregates non-impacted stormwater from the property to the north (Pope's Grove) and chloride-impacted water from the northern and western perimeters of Wastebeds 9/10. The non-impacted stormwater is discharged to NMC via a 24-inch culvert pipe connected to the State Pollution Discharge Elimination System (SPDES)-permitted Outfall 011 (**Figure 2**). The impacted water is pumped into the northern end of the Interbed Area.

Two collection trenches were installed along Wastebeds 9/10 in 2005. A stone-filled collection trench with a 6-inch perforated pipe was installed along the southern perimeter and larger cobble-filled trench with a 15-inch perforated pipe was installed along the northern and eastern perimeter. The purpose of the trenches was to mitigate leachate seeps to nearby surface water by intercepting the seepage and discharging it to the Interbed Area, where it is subsequently pumped to the Wastebeds 12-15 retention ponds and then to the Syracuse Metropolitan Wastewater Treatment Plant (Metro WWTP).

Discharge from Outfall 011 is currently monitored under SPDES Permit #NY0002275, which was most recently dated August 25, 2016. The 24-inch Outfall 011 pipe was replaced with an HDPE pipe in 2010 as part of the Seep Mitigation Program to prevent groundwater infiltration into the outfall.

The Phase 4 Seep Mitigation Interim Measure (IM) system at Wastebeds 9/10 collection system was installed along the southern perimeter of Wastebeds 9-11 (**Figure 2**) and consists of a leachate collection trench, two interceptor walls, six collection wells, and a lift station brought into operation on April 8, 2013 (O'Brien & Gere 2013b). The leachate collection trench contains an 8-ft deep, 6-inch diameter perforated leachate collection pipe in a gravel-filled trench. Leachate collected in the system is directed to a 6 ft x 6 ft 17 ft deep lift station located near the Interbed Pump Station. The collection system is approximately 2,900 linear feet long. In addition to the leachate collection system, three separate interceptor walls were installed between the leachate collection system and NMC to reduce the quantity of groundwater reaching NMC. The interceptor walls are approximately 750 linear ft long for one and 100 linear ft long for each of the other two and were installed to reduce seeps along the banks of NMC. On the northern side of the interceptor walls, a series of six collection wells were installed. Two monitoring wells were also installed on the southern side of the interceptor wall near NMC measure groundwater elevations and control the pumping rates of the collection wells. Each collection well is equipped with a pump which discharges through a force main to the lift station. Groundwater/leachate is pumped from the lift station into the Interbed force main that discharges into retention pond 1. Based on data recorded at the lift station, the flow varies from approximately 20 to 88 gallons per minute.

The Phase 5 Seep Mitigation IM system was installed along the southern perimeter of Wastebed 11 (**Figure 1**) and consists of a leachate collection trench, five collection wells, lift station modifications, and interbed forcemain modifications brought into operation in June 2015 (O'Brien & Gere 2015). The leachate collection trench contains a 14-23 ft deep, 6-inch diameter perforated leachate collection pipe in a gravel-filled trench. Leachate collected in the system is directed to the lift station installed as part of the Phase 4 mitigation system construction. The collection system is approximately 1,325 linear feet long. A series of five collection wells were installed as part of the leachate collection system. Two monitoring wells were also installed near NMC to measure groundwater elevations and control the pumping rates of the collection wells. Each collection well is equipped with a pump which discharges through a force main to the lift station. Groundwater/leachate is pumped from the lift station into the Interbed force main that discharges into the retention ponds.

2.1.3. Wastebeds 12 through 15

Wastebeds 12-15 cover an area of approximately 536 acres. A Site Plan is included as **Figure 2**. According to historical reports, figures, and data, Wastebeds 12-15 were constructed and used as wastebeds for Solvay waste between 1951 and 1986. The southern boundary of Wastebed 12 was originally the old Erie Canal, but the Erie Canal was filled sometime prior to 1974 (Dames & Moore, 1974) with trash placed by the Town of Camillus (BB&L, 1989). Wastebed 13 was constructed on top of an area from which gravel was extracted to approximate depths of 30 ft below original grade; these pits encompassed nearly the entire bed area (BB&L, 1989). Wastebed 15 was constructed over former Erie Canal with most of the rubbish used to fill it in removed prior to Solvay waste being placed into this wastebed in 1975 (BB&L, 1989). The western portion of Wastebed 15 received demolition debris from Allied's former main plant area, and the eastern half is used by the Town of Camillus as a construction and demolition (C&D) debris landfill.

In addition to Solvay waste, these wastebeds reportedly received smaller amounts of brine purification sediments, treated mercury cell waste water, boiler water purification sediments, boiler bottom and fly ash, some Willis Avenue Plant waste water, and asbestos slurry. The volume of material placed within Wastebeds 12-15 is estimated to be 42,190,000 CY (BB&L, 1989), with the majority of the material being Solvay waste.

During the period of operation, the berms of the active wastebeds were constructed higher as the elevation of the waste material in the wastebeds increased. Construction drawings prepared by Allied detail a gravel drainage layer near the base of each berm, topped with a 6-inch sand filter layer, topped with native soil material (glacial till), to a height of approximately 55 ft from the base elevation. A topographic map is included as **Figure 3**. The drainage layer is 1 to 4 ft thick and was designed to drain water infiltrating the wastebeds (leachate) and the liquid portion (supernatant) of the slurry waste material and discharge it to the open perimeter drainage swale. The Leachate Collection and Conveyance System (LCCS) was designed to intercept water from this drainage layer and from drainage pipes placed within this layer during construction of the beds. The drainage swale conveyed flows to the two retention ponds located in the northeast corner of the Site. The leachate and storm flow were subsequently pumped from the retention ponds to the Metro WWTP. The open perimeter drainage swale was replaced by the LCCS in September 2002 that included a stormwater swale. The LCCS is discussed in detail below in Section 2.1.4 of this Report.

The retention ponds and associated pump station [Camillus Pump Station, now referred to as Former County Pump Station (FCPS)] were previously owned and operated by the OCDWEP. In accordance with the February 12, 2004 stipulated judgment between Honeywell and the County of Onondaga, Honeywell decommissioned the FCPS, installed new mechanical and control systems, and assumed ownership of the retention ponds, FCPS, and associated 30-inch and 24-inch leachate force mains.

Honeywell has an Onondaga County Industrial Wastewater Discharge Permit for the discharges to the Metro WWTP from Wastebeds 12-15. As part of this permit, Honeywell is required to submit quarterly self-monitoring reports (SMRs). The quarterly SMRs contain analytical data collected monthly from the FCPS wet well for volatile organic compounds (VOCs), metals, and certain water quality parameters required by the permit. Discharge volumes from the LCCS pump station to the retention ponds are also included as an attachment to the SMR.

The Industrial Wastewater Discharge Permit #801 was approved on December 28, 2004 (and most recently updated on June 19, 2015), with some stipulated conditions. A new monitoring station was constructed at the Metro WWTP to serve as the new compliance point. The Metro WWTP Onsite Monitoring Facility tracks the flow for the Honeywell force main from Wastebeds 12-15 to Metro WWTP and serves as a sampling location for compliance events. The monthly average flows, as reported in the SMRs, have ranged between 0.08 and 1.54 million gallons per day (MGD) since January 1, 2005 with the peak flow in April 2011.

A final SPDES Permit for Outfalls 017, 018, and 019 was issued on September 18, 2003 and most recently updated on August 25, 2016. These outfalls are currently sampled monthly and SPDES reports are submitted as required by the Permit #NY0002275. Outfalls 017, 018, and 019 are located along the perimeter of Wastebeds 12-15 (**Figure 2**) and serve to discharge surface water that is collected in the LCCS drainage swale.

The Camillus C&D Landfill, which is owned and operated by the Town of Camillus, is situated on the eastern end of Wastebed 15. The Town of Camillus leases this portion of Wastebed 15 from Honeywell and operates the C&D Landfill at this location. In accordance with Consent Order No. R7-0058-85-11 dated February 12, 1987, and updated most recently on October 6, 2017, portions of Wastebed 15 will be filled and closed incrementally via construction of a Part 360 Cap. Capping of the first 9+ acres of Wastebed 15 was completed during the spring and summer of 2004.

2.1.4. Leachate Collection and Conveyance System and Associated pH Adjustment

Leachate Collection and Conveyance System

The collection system was installed along the eastern, western, and northern perimeters of Wastebeds 12-15 (**Figure 2**), and consists of 6-inch diameter perforated HDPE pipe placed within a trench and backfilled with crushed stone. The collection trench is lined with a geotextile filter fabric to minimize the migration of fine grained materials into the trench. A geocomposite drainage net installed near the surface of the wastebed berms and covered with a geomembrane and soil layer extends from the leachate collection trench to about 20 ft above the trench. This drainage layer is designed to intercept and convey surface seeps into the collection trench. As

part of subsequent seep mitigation projects, additional perforated collection pipes were installed higher on the berms in the northeast and southwest corners of the Site where active seeps had been observed.

The leachate collected in the 6-inch perforated pipes (including the seep mitigation systems) flows via gravity into the conveyance system through a series of lateral tie-ins. The conveyance system consists of 12-inch diameter solid-wall HDPE pipe with associated cleanouts and concrete manholes to permit cleaning and inspection. The conveyance system slopes from the two high points (MH-01 and MH-18) on opposite sides of the system to a common low point (MH-15).

As part of the installation of the LCCS, the discharge pipes from weir boxes located within the wastebeds were also intercepted for collection. Those weir boxes were used when the wastebeds were in active service to drain supernatant from the Solvay waste slurry. Wastewater collected in the weir boxes was conveyed to perimeter drainage swales via the discharge pipes, which are now connected to the LCCS at manholes.

A Seep Mitigation Program was initiated in 2006 to address leachate seepage discharging to the stormwater drainage swale. The Phase 1 effort was completed in June 2007 and consisted of the installation of a 1,700-ft collection trench along the northern berm of Wastebed 12. The Phase 2 effort was completed in December 2007 and consisted of the installation of a 1,500 ft collection trench along the western berm of Wastebed 14. The Phase 6 seep mitigation IM was completed in December 2015 and consisted of the installation of 925 ft of collection trench along the northern berm of Wastebed 12, liner repairs, and modifications to the existing seep collection system (O'Brien & Gere 2016a).

Leachate Pump Station and Acid Injection System

From the low point (MH-15) of the collection system, leachate flows by gravity through the solid wall 12-inch diameter HDPE conveyance pipe to a 5-ft diameter by 19.5-ft deep wet well at the Leachate Pump Station. Two self-priming centrifugal ITT Marlow pumps were originally installed in the pump station building. These were later replaced by two larger Gorman Rupp pumps with a pumping capacity of 400 gallons per minute (gpm), with one pump operating and 475 gpm with two pumps operating. These pumps were subsequently replaced by submersible pumps in 2015 during the LCCS IM (O'Brien & Gere 2016b); the Gorman Rupp pumps remain in service for backup capacity.

The pumps convey the leachate through underground force mains to the adjacent retention ponds. During the 2015 LCCS IM, a 10-inch force main was installed to supplement the existing 6-inch force main. Flow rates are measured and recorded using an in-line magnetic flow meter located within the vault adjacent to the Leachate Pump Station. From the retention pond, leachate is conveyed to the Metro WWTP via the FCPS and a system of 24-inch and 30-inch force mains.

The acid injection system consists of a 5,000-gallon fiberglass hydrochloric acid tank with secondary containment that is located adjacent to the Leachate Pump Station building. The acid is pumped from the storage tank via an acid metering pump, whose speed is proportional to the discharge flow rate from the leachate pumps. Acid is pumped through a double containment polyvinyl chloride (PVC) pipe to the wet well where the acid and leachate are mixed to adjust the pH.

Originally, acid was injected through a ½-inch PVC acid injection pipe that was connected to the leachate force main within the vault. However, the acid injection was relocated to the wet well to reduce precipitation and scaling inside the pumps. Relocation of the acid injection to the wet well also provides longer contact time for the acid to react with the leachate prior to collecting measurements with a pH probe located in the adjacent vault.

A pH alarm generated by the programmable logic controller is connected to an autodialer that notifies a Honeywell representative when pH readings are not within the specified range of 5.5 to 10.5 standard units (S.U.).

2.1.5. Evapotranspiration Cover Program

Honeywell has implemented and continues to implement measures to collect leachate from the wastebeds and to mitigate seeps through the berms of the wastebeds. These measures have been effective in reducing the contribution of brackish leachate to the environment. To further reduce the migration of these liquids and to close the wastebeds in accordance with 6 NYCRR Part 360, Honeywell has proposed to install a final cover system on the wastebeds to reduce the percolation of precipitation through the Solvay waste materials. It is proposed that an innovative system consisting of a willow-based evapotranspiration (ET) cover, together with additional seep mitigation and berm stabilization/vegetation measures, be utilized.

Since 2003, studies have been performed at the Site to improve understanding of the interaction of the ET cover with Solvay waste and how that cover system may be implemented on a larger scale. In 2003, a three-year pilot study was initiated on a 4-acre portion of Wastebed 13. The first willow plots (Plots 1 and 2) were established in spring of 2004, and a third set of plots (Plot 3) was established in the spring of 2006. The pilot study was designed to identify combinations of plant species and organic amendments that are conducive to growth on the Site and to assess the ability of these combinations to reduce percolation. Additionally, the study was designed to facilitate development and calibration of a water budget model that could be used to estimate the water budget cycle for the proposed ET cover.

Based on the success of the pilot studies in 2008, a Full-Scale Demonstration of the ET cover was completed on Wastebed 14. This work included the planting of 10 acres of shrub willows, which were divided into four 2.5-acre plots, and construction of an approximately 5-acre salt marsh. The Full-Scale Demonstration was designed to supplement knowledge gained in the 2003-2006 pilot studies, provide a venue to experiment with construction techniques, and identify efficient methods for amending the Solvay waste and planting the shrub willows.

Full Scale Demonstration activities included access road construction, application and mixing of organic amendments, and shrub willow planting. Application and mixing of organic amendments began in April 2008 and was complete in June. Each plot contained a unique composition of organic amendment that varied by organic amendment source and ratio of mixing with existing Solvay waste (1.25:1 and 2.5:1, Solvay waste:organic amendment). The amendments included brewery biosolids supplied by Anheuser-Busch's plant in Baldwinsville, New York, Class A municipal sewage biosolids from WeCare Organics, LLC located in Jordan, New York, and yard waste from the Towns of Geddes and Camillus, New York.

Organic amendments were mixed to a depth of approximately 0.5 meter (1.6 ft) in each of the four plots using excavators with rotating mixing head attachments. The use of standard agricultural equipment (*i.e.*, tractor with chisel plow and disking attachments, *etc.*) was attempted to perform mixing with limited success. This equipment was unable to achieve an acceptable mix to the specified depth and required multiple passes across the plot, which resulted in increased rutting. For these reasons, efforts to use agricultural equipment were halted, and high-energy radial mixing heads were employed.

Following organic amendment application, test pits were excavated within each shrub willow plot to assess the depth and homogeneity of organic amendment mixing with Solvay waste. Odor monitoring during organic amendment application and mixing was conducted to assess if odors were being emitted into the air.

Willow planting on the amended wastebed surface was complete by mid-July 2008. Four shrub willow varieties were selected based on the results of greenhouse screening trials and field trials that were planted during the 2003-2006 pilot studies. Several varieties were included to maintain a diversity of plant material across the Site. In addition to four main varieties, an additional 20 varieties were planted as part of a yield trial. The yield trial was conducted to evaluate willow varieties for use in future phases as a means of maintaining biodiversity and minimizing potential insect and disease problems.

Preparation and planting of the 5-acre salt marsh plot occurred concurrently, with construction occurring between May and July 2008. Five different plant communities comprising many different species suited to a salt marsh environment were planted.

The Full-Scale Demonstration showed that the wastebed surface could be successfully amended and willows grown on a large scale. Additional shrub willows have been planted on Wastebed 14 (O'Brien & Gere 2012a) in separate phases between 2011 and 2015. In those phases of work, the organic amendment material has been a blend of "Stable Peat" (a commercial compost made from horse bedding by Ground Effects of Warners, New York) and Anheuser-Busch biosolids. Specialized mixing equipment has been acquired to improve the performance of the amendment process.

The goal of the ongoing planting has been to continue progress made on previous work to demonstrate that the ET cover will not only satisfy environmental protection criteria, but will ultimately provide energy, economic, and ecosystem benefits to the Central New York community. The objectives of this work include:

- Expand the existing shrub willow plots on Wastebed 14 to allow ongoing assessment of the site water budget.
- Add different varieties of shrub willows to assess performance, with a goal of diversifying the plant community.
- Evaluate use of more robust agricultural equipment for mixing of organic amendments.

As of the date of this report, a total of approximately 113 acres of shrub willow have been planted on Wastebed 14. Scientists from the SUNY College of Environmental Science and Forestry (SUNY ESF) have continued to monitor the health and productivity of the shrub willows and have harvested several plots after 3 or 4 years of growth. As predicted, the willows have grown back without intervention or assistance after the harvest. The data being collected by SUNY ESF will be incorporated into the final Closure Plan for the Site to demonstrate the willow's effectiveness in enhancing ET and develop long-term strategies for monitoring and managing the shrub willows.

2.1.6. Berm Stabilization and Erosion Control

In accordance with a March 2012 *Berm Stabilization and Erosion Control Work Plan* (O'Brien & Gere 2012b), a site reconnaissance was performed to survey the berms surrounding Wastebeds 9-15 to identify areas on the berms that may be undergoing or threatening to undergo erosion in an unacceptable manner which threatens berm stability or allows berm material to be deposited off-site. This survey included the northern bank of NMC within the limits of the SAA. Observed conditions during the reconnaissance were compared to historical information to evaluate if the observed conditions have changed or are changing. Overall, the wastebed berms were found to be in good structural condition, and no sections of the berms were judged to be in danger of collapse, sliding, or other sudden failure. Findings of the reconnaissance were summarized in the July 2013 *Berm Stabilization and Erosion Control Report* (O'Brien & Gere 2013a), along with recommendations for mitigating erosion and stabilizing portions of the berms while increasing natural habitats and potentially promoting future recreational use of the area subsequent to the closure of the site.

Priority tasks identified during the reconnaissance were completed in 2015 as part of the Berm Stabilization and Erosion Control IM (O'Brien & Gere 2016c):

- Drainage improvements, including installation of water bars
- Repair of areas where sloughing was observed
- Filling and revegetation of rills
- Decommissioning of culverts
- Repair of exposed liner
- Repair of miscellaneous features
- Vegetation along Wastebed 13, Wastebed 15, and NMC bank.

Remaining tasks that were not addressed during the IM are targeted for completion during closure and restoration construction activities.

2.2. SITE ACCESS AND SECURITY

Currently, Wastebeds 12-15 are surrounded by 8-ft chain-link fence, and the Site can be accessed via a locked gate off of Gere Lock Road that has a full-time security guard during normal working hours. Wastebed 15 (current Camillus C&D Landfill) can be accessed through the C&D landfill entrance at Thomas Avenue/Belle Isle Road intersection. Wastebeds 9-11 are surrounded by 8-ft chain-link fence on three sides and NMC on the fourth side. The Site can be accessed by two locked gates; one gate is located at the end of Pump House Road and the second gate is located off of Armstrong Road.

Portions of the SAA are currently not owned by Honeywell. Landowners were contacted prior the commencement of work in these areas. The list of landowners was developed from current Town of Camillus and Town of Geddes property tax records.

2.3. PREVIOUS INVESTIGATIONS

Previous investigations conducted at the Site or adjacent to the Site, and corresponding reports submitted in chronological order for the Site include:

1) Evan W. Vaughan Consulting Engineer. November 1949. *Stability Investigation, Waste Disposal Bed Number 9*. The Solvay Process Division, Allied Chemical and Dye Corporation. Syracuse, New York.

2) B.K. Hough. August 1950. *Report on Subsurface Investigation and Stability Analysis for Proposed New Solvay Dyke and Waste Beds, Camillus, New York*.

3) Dames & Moore. July 1974. *Report Embankment – Waste Disposal Pond No. 15 Subsurface Investigation for Allied Chemical Corporation; Solvay, New York*.

4) Dames & Moore. January 1975(a). *Soil Engineering Studies Waste Embankment 13 for Allied Chemical; Solvay, New York*.

5) Dames & Moore. June 1975(b). *Soil Engineering Studies Waste Embankment for Waste Pond 15 for Allied Chemical Corporation; Solvay, New York*.

6) Dames & Moore. May 1976. *Instrumentation and Subsurface Investigation Existing Waste Pond 14 for Allied Chemical Corporation. Solvay, New York*.

7) BB&L. February 1987. *Leachate Seeps Assessment.*

8) BB&L. May 1988. *Hydrogeologic Assessment of the Allied Waste Beds in the Syracuse Area. Volume 2.*

9) BB&L. April 1989. *Hydrogeologic Assessment of the Allied Waste Beds in the Syracuse Area. Volume 1.*

10) CDR Environmental Specialists. 1990. *Physical and Chemical Characteristics of Water and Surficial Sediment in Lower Reaches of the Nine Mile Creek System.*

11) Calocerinos & Spina Engineers, Inc. (C&S). October 1991. *Inflow/Outflow Study, Allied Lagoons*. Allied Signal, Incorporated. Solvay, New York.

12) BB&L. 1993. *Source Area Investigation of Volatile Organic Compounds in the Vicinity of the West end of Settling Basin 15 and the Erie Canal.*

13) BB&L. April 1995(a). *Chlorobenzene Evaluation Allied Wastebeds 12 to 15. Onondaga County, New York*.

14) BB&L. July 1995(b). *Summary Data Report; Allied Wastebeds 9 to 15 and Lower Nine Mile Creek Valley; Onondaga County, New York*.

15) C&S. September 1996. *Wastebed Point Source Discharge Assessment.*

16) BB&L. August 1999. *Supplemental Site Investigation Report. Wastebeds 9 to 15. Onondaga County, New York. Volume 1.*

17) BB&L. September 2001. *Ninemile Creek/Geddes Brook Sediment IRM Investigation*.

18) NYSDEC. July 2003. *Geddes Brook/Ninemile Creek Remedial Investigation, Baseline Ecological Risk Assessment, and Human Health Risk Assessment*. Originally released as Exponent. November 2001. *Geddes Brook/Ninemile Creek Remedial Investigation, Baseline Ecological Risk Assessment, and Human Health Risk Assessment*.

19) Parsons. November 2002. *Geddes Brook Preliminary Design Investigation*.

20) Parsons. May 2005. *Geddes Brook/Ninemile Creek Feasibility Study*.

21) O'Brien & Gere Engineers, Inc. (O'Brien & Gere). 2003. *Leachate Collection and Conveyance System Wastebeds 12 – 15 Completion Report. Camillus, New York. O'Brien & Gere Engineers, Inc. East Syracuse, New York*.

22) O'Brien & Gere. December 2005(a). *Phase I Environmental Site Assessment – 6338 Airport Road*.

23) O'Brien & Gere. June 2005(b). *Certification Report; Eastern Portion of Honeywell Wastebed 15; Town of Camillus, Onondaga County, New York; RES Project Number 37911*.

24) O'Brien & Gere. February 2006(a). *Phase II Environmental Site Assessment – 6338 Airport Road*.

25) O'Brien & Gere. March 2006(b). *Settling Basins 9 through 15 Leachate Minimization/End Use Program. Camillus and Geddes, New York.*

26) O'Brien & Gere. 2008. *Shrub Willow Sustainable Remedy (SWSR) Full Scale Demonstration – Settling Basin 14.*

Other pertinent investigations and monitoring programs at the Site and SAA includes:

1) Investigation: Parsons. 2007. Geddes Brook/NMC floodplain sampling.

2) Investigation: O'Brien & Gere. 2008. Bianchi property groundwater monitoring well installation and sampling.

3) Investigation: Parsons. 2008. NMC floodplain and channel sampling.

4) Program: OCDWEP. 1987 to 2008. NMC twice monthly (minimum) sampling at Route 48 and Amboy Dam.

5) Program: Honeywell. 1989 to present. Quarterly NMC surface water and adjacent groundwater monitoring well sampling under SPDES Permit #NY0002275

6) Program: OCCDWEP. 1998 to 2012. Onondaga Lake Ambient Monitoring Program.

7) Program: Honeywell. 2001 to present. Onondaga County Self Monitoring Report Permit #801 Compliance Sampling

8) Program: Town of Camillus. 2001 to present. Town of Camillus C&D Landfill Environmental Monitoring Report.

9) Program: Honeywell. 2006 to present. SPDES Permit #NY0002275 Compliance Sampling

The above listed documents and existing data are summarized in the Records Search Report included as **Appendix A**. Also included in the Records Search Report are:

- A history and description of the wastebeds and SAA (including the nature of operations);
- The types, quantities, physical state, locations, methods, and dates of disposal or release of wastes or the discharges of pollutants at or from the Site;
- A description of current Site activity (*i.e.*, fencing, posting, *etc.*); and

- The organizations responsible for disposal of hazardous wastes or hazardous substances at the Site.

3. CLOSURE INVESTIGATION

The Closure Investigation was conducted to provide the data necessary to understand the Site's current environmental setting and implement a final closure plan that includes an alternative ET cover system. Field investigations were performed in accordance with the September 2011 *Wastebeds 9-15 Site Closure Investigation Revised Work Plan* (O'Brien & Gere, 2011a), which was approved by the NYSDEC on October 18, 2011. The various field investigations and the associated objectives of each are summarized below:

- Site Environmental Media Investigation
  - Access Agreement
  - Marking of Subsurface Utilities
  - NMC Tracer Study
  - Soil Boring/Monitoring Well Installation
  - Geotechnical Assessment
  - Monitoring Well Development
  - *In Situ* Hydraulic Conductivity Testing
  - Groundwater Elevation Monitoring
  - Surface Water Elevation Monitoring
  - Groundwater Quality Sampling and Analysis
  - Subsurface Leachate Sampling
  - Surface Water Sampling
  - NMC Sediment Sampling
  - Phase 1 SAA including Macroinvertebrate and Soil Sampling
  - Site Survey and Topographic Survey
  - Residential Well Survey
  - Air Sampling
- Site Explosive Investigation
- Site Surface Leachate Investigation
- Site Vector Investigation
- Data Management
- Data Validation

3.1. SITE ENVIRONMENTAL MEDIA INVESTIGATION

3.1.1. Access Agreements

Honeywell currently owns the Site. However, access agreements for some off-site areas investigated as part of the SAA were negotiated by Honeywell to allow access to these areas.

3.1.2. Marking of Subsurface Utilities

Dig Safely New York was contacted prior to the initiation of intrusive work at the Site. A date and time was established for the various utility companies to meet an O'Brien & Gere representative and mark the locations of subsurface utilities in the areas of proposed work.

3.1.3. Ninemile Creek Tracer Test

A constant rate tracer test was performed on NMC to evaluate locations where groundwater is recharging to the stream (gaining stream). The methods for the constant rate injection test are included in **Attachment 1** (Kilpatrick and Cobb, 1985). Both the *Hydrogeologic Setting Summary* (Honeywell, 2009a) and the SAA submittal (Honeywell, 2009b) describe the locations of the creek and reference historic reports that generally describe where NMC is either a gaining or losing stream. The overall objective of this tracer test was to refine the groundwater and surface water hydraulics of NMC from Amboy Dam to the upper limit of NMC Operable Unit 1.

The constant-rate injection method was utilized for the purposes of this investigation. In a constant-rate injection tracer test, a tracer with a known concentration is injected into the stream at a defined injection rate based on the stream flow on the day of the test. Four tests were conducted in four consecutive sections across the entire length of the investigation area. The reaches were chosen based on field reconnaissance prior to the tests. Site accessibility and estimated travel time for the stream water in the selected reaches were taken into consideration for dividing the study area into the four sections (**Figure 4**). The fluorescent dye Rhodamine WT 20 was used for each test. Sampling points for each test were chosen based on stream morphological features that are noted on **Figure 4**.

3.1.3.1. Tracer Test Injection Point Setup

At each of the four injection points (**Figure 4**), a length of stainless steel wire cable was suspended across the stream using two wooden stakes driven into the banks. Three separate poly tubes connected to three peristaltic pumps were attached to the steel wire cable with the ends of the poly tube suspended just above the stream water and separated so each end injects dye into a portion of the creek. The three poly tubes were configured to allow for the tracer to fully mix across the cross-sectional area of the creek. The other ends of the poly tubes were placed in a drum containing a known concentration of Rhodamine WT mixed with creek water (injectate).

3.1.3.2. Tracer Injection

The specific injectate concentration for each of the four tests was calculated using Figure 9 from the paper *Measurement of Discharge using Tracers* by Frederick A. Kilpatrick and Ernest D. Cobb, where the tracer injectate concentration (C_i) was chosen based on the volume of water in the stream at the injection point. This volume is estimated from the downstream stream flow at the United States Geological Survey (USGS) Gauge Station on NMC in Lakeland. The rate at which the injectate was injected into the stream was chosen based on the desired target concentration in the stream itself or Plateau Concentration (C_p). Typically, a target plateau concentration of 10 µg/L was desired, but the actual plateau concentration depended upon the flow in the stream. The formula is as follows:

$$Q_s * C_p = Q_i * C_i$$

where:

Q_s = Stream discharge

C_p = Tracer plateau concentration

Q_i = Tracer injection rate

C_i = Tracer concentration

After an injection rate was established, the pumps were turned on and the flow rates were monitored at each injection point with a 1,000-mL beaker. The rates were adjusted as needed to reach the target injection rate. At the downstream end of the study section, the stream was monitored for Rhodamine using a YSI 650 multi-parameter water quality meter. These concentrations and water quality parameters are included on the field logs in **Appendix B**. The tracer was injected at a continuous rate until the Rhodamine concentrations at the downstream end of the study section reached a consistent concentration at, or close to, the target C_p. Stream sampling commenced once the tracer plateau was reached.

3.1.3.3. Tracer Test Sampling

Three grab samples of stream water were collected at predetermined sampling points during the injection period and stored in a dark cooler for bench top fluorometer testing. Sampling points are noted on **Figures 5 through 8**. Three samples were collected laterally across the stream from the left, middle and right sides of the channel (facing upstream). The three samples were collected in an effort to identify potential areas where groundwater may be entering the stream from one side or the other side. The samples were transported to Syracuse University in a cooler and analyzed for Rhodamine concentrations.

Additional stream water samples were collected at selected intervals for analysis of inorganic parameters. These parameters include calcium, sodium, magnesium, bromide, and chloride. The inorganic samples were collected to help supplement the Rhodamine data by identifying potential geochemical differences in discharges to NMC. One set of inorganic samples (anion and cation) was collected from the middle of the stream at every other collection point. The sample containers were submitted to TestAmerica for analysis. These results are presented in **Table 1**.

Water quality parameters such as conductivity, temperature and pH were also collected at each location where tracer samples were collected. Water quality parameters were recorded during the collection of the stream water samples for tracer analysis. Field parameters were recorded in a field book (**Appendix B**).

3.1.3.4. Tracer Test Surface Water Flow Measurements

Direct measurement of stream flow was made at several locations of notable surface water inputs or losses. The measurements were made using a Marsh-McBirney flow meter. The direct measurements were completed as follows:

- The stream width was measured with a survey tape strung across the stream at a set location.
- The stream was divided into equal segments based on stream width.
- The depth was measured at each segment across the width of the stream.
- The Marsh-McBirney meter was lowered into the stream to about ⅔ of the total depth at each stream segment.
- Flow velocities were measured.
- Stream discharge was calculated for each cross sectional area by multiplying stream velocity by the width and total depth of each segment.
- Total discharge was calculated by adding together all the discharges at each stream segment.

Stream discharges were directly measured during Test #3 (Reach #3) on October 5, 2012 near the Injection Point, where surface water was diverted from NMC between Collection Point 25 and 27 (CP-25 and 27). Flows were measured upstream and downstream of the diversion. Flows were not measured in the diversion do to the lack of depth in the diversion and flow pattern of the water. Flows were also directly measured where Beaver Dam Brook joins NMC. Flows were measured in Beaver Dam Brook prior to the confluence with NMC, and flows were also directly measured in NMC upstream and downstream of where Beaver Dam Brook joins NMC. Lastly, stream flow was directly measured in NMC at CP-04 on October 11, 2012 at the end of Test #4.

3.1.3.5. Tracer Test Completion

The pumps were stopped following the completion of the stream sampling. Rhodamine concentration and water quality parameters were recorded at the last collection point for each test until Rhodamine concentrations dropped. Ideally, the concentrations should be monitored to 0 parts per billion (ppb) to show full recovery of the injected slug of tracer. However, due to the long reaches of the test sections, full recovery was not always reached within daylight hours. Therefore, tracer concentrations were monitored at the last collection point, so that sufficient tracer injection (upward climb in concentration), plateau (steady concentration), and recovery (downward fall in concentration) was noted. The field measurement data are presented in **Appendix B,** and the Rhodamine concentrations are presented on **Figures 9 to 12**.

Tracer test results, flow calculation methods and results, and inorganic parameter results are discussed in Section 5.

3.1.4. Monitoring Well Installation

Borings, for the installation of the monitoring wells, were installed using conventional drilling techniques by Parratt-Wolff, Inc. of East Syracuse, New York under the supervision of an O'Brien & Gere geologist. Soil samples were collected continuously in accordance with American Society for Testing and Materials (ASTM) Method D1586-84 using a 140-lb hammer and 2-inch 2-ft split-barrel sampler except where sample recovery was an issue, and then a 3-inch 2-ft split barrel sampler was used as noted on the boring logs. Each sample was logged by the geologist and boring logs were completed to document encountered subsurface material and other pertinent observation including, but not limited to, soil composition, color, consistency, moisture content, recovery, odor, and staining. In addition, each split spoon was screened with a photoionization detector (PID). Boring logs are presented in **Appendix C.** The boring logs for SB915-MW-01, SB915-MW-03, and SB915-MW-04 are not included. These monitoring wells are functional historic wells installed prior to 1995, and the borings logs could not be located.

Table 3-1 below lists the wells that were installed as part of this program. Well locations are presented on **Figure 13** and are discussed in greater detail below.

Table 3-1 Monitoring Well Installation SB915 Site

Eight Bedrock Monitoring Wells	Five Deep Overburden Monitoring Wells	Six Intermediate Overburden Monitoring Wells	Thirteen Shallow Overburden Monitoring Wells
SB915-MW-105BR	SB915-MW-107D	SB915-MW-104I	SB915-MW-104S
SB915-MW-107BR	SB915-MW-108D	SB915-MW-106I	SB915-MW-105S
SB915-MW-108BR	SB915-MW-111D	SB915-MW-107I	SB915-MW-106S
SB915-MW-111BR	SB915-WB-09L	SB915-MW-109I	SB915-MW-107S
SB915-MW-114BR	SB915-WB-10L	SB915-MW-111I	SB915-MW-108S
SB915-MW-115BR		SB915-MW-112I	SB915-MW-109S
SB915-MW-118BR			SB915-MW-110S
SB915-WB-07R			SB915-MW-111S
			SB915-MW-112S
			SB915-MW-113S
			SB915-MW-116S
			SB915-MW-117S
			SB915-MW-118S

Due to the concurrent program to support the Sediment Consolidation Area (SCA) Hydrogeologic Investigation, the numbering of the proposed Closure Investigation monitoring wells was adjusted subsequent to the approval of the CIWP but prior to initiating the start of the Closure Investigation field program to provide continuity with the SCA Hydrogeologic Investigation as discussed with and approved by the NYSDEC. In addition, three monitoring wells (SB915-WB-09L, SB915-WB-10L, and SB915- MW-108D) initially proposed as intermediate wells were installed as deep wells based on the observed geologic formation.

3.1.4.1. Shallow and Intermediate Monitoring Wells

The soil borings to facilitate the installation of intermediate and shallow monitoring wells were advanced to the terminal depth utilizing 4 ¼ inch hollow-stem augers. Split-spoon samples were collected within the selected screen interval only if the intermediate or shallow well was not in a cluster with a deep or bedrock well. If the intermediate or shallow well was in a cluster without a deep or bedrock well, split-spoon samples were collected

continuously to the terminal depth of the boring. Once the terminal depth of the well was reached (approximately 8 ft below the water table for shallow wells and in a permeable unit between the deep and shallow well screens for intermediate wells), a 2-inch inside diameter, 10-ft long Schedule 40 PVC 0.010-inch slot screen flush mounted to the riser was installed within the boring. Sand pack consisting of US Silica size #00 sand or equivalent was installed (**Table 2**). The sand pack extended approximately 2 ft or 20 percent of the screen length (whichever was greater) above the top of the screen. Due to the potential for high chloride water and the inability of bentonite to properly hydrate in high chloride conditions a 2 to 3-ft sand choke consisting of US Silica size #000 sand or equivalent was installed above the sand pack to stop grout infiltration. The annular space above the sand choke was then sealed with a Portland cement/bentonite grout to grade. The well was secured with a steel standpipe and aluminum locking cover.

3.1.4.2. Deep Monitoring Wells

The soil borings to facilitate the installation of deep monitoring wells were advanced to the top of till utilizing fluid rotary drilling techniques. Fluid-rotary drilling methods utilize a nominal 3.875-inch diameter roller bit to advance the boreholes. Potable water and EZ-MUD® polymer drilling fluid were re-circulated through the drill stem to carry soil cuttings to the ground surface. Cuttings that were carried to the ground surface were initially contained in the re-circulation tub and transferred to a lined roll-off box as needed. Split-spoon samples were collected within the selected screen interval only if the deep well was in a cluster with a bedrock well. If the deep well was in a cluster without a bedrock well, the split-spoon samples were collected continuously to the terminal depth of the boring. Once the top of till was confirmed, a 2-inch inside diameter, 10 ft long schedule 40 PVC screen flush mounted to riser was installed within the boring (**Table 2**). The sand pack consisting of US Silica size #00 sand or equivalent extended approximately 2 feet or 20 percent of the screen length (whichever was greater) above the top of the screen. Due to the potential for high chloride water and the inability of bentonite to properly hydrate in high chloride conditions, a 2 to 3-ft sand choke consisting of US Silica size #000 sand or equivalent was installed above the sand pack to stop grout infiltration. The annular space above the sand choke was then sealed with a Portland cement/bentonite grout to grade. The well was secured with a steel standpipe and aluminum locking cover.

3.1.4.3. Bedrock Monitoring Wells

The soil borings to facilitate the installation of the bedrock monitoring wells were advanced to the top of till utilizing fluid rotary drilling techniques as described above. Split-spoon samples were collected continuously to the terminal depth of the boring. Once the top of till was confirmed, a 5.875-inch roller bit was used to prepare the boring for the 6-inch casing installation. Once the borehole was prepared using the 5.875-inch roller bit a 6-inch diameter permanent steel casing was installed with grout approximately 4 ft into the till unit. Once the grout had cured for a minimum of 12 hours, the boring was advanced through the 6-inch steel casing utilizing fluid rotary techniques to the top of bedrock. Once bedrock was confirmed, a 4-inch steel casing was grouted approximately 4 ft into bedrock. Once the grout had cured for a minimum of 12 hours, the casing was cleaned out using a 3.875-inch roller bit and the boring was advanced 3 ft below the bottom of the casing.

Conventional coring techniques utilizing a 3.875- inch diameter core barrel were implemented to advance the boreholes through the bedrock formation. Potable water was recirculated through the drill stem to carry rock cuttings to the ground surface. Cuttings carried to the ground surface were initially contained in the recirculation tub and then transferred to 1,500-gallon poly tanks as needed. Subsequent to the completion of the coring, a 2-inch inside diameter, 10-ft long, 0.010-inch slot, Schedule 40 PVC screen flush mounted to a riser was installed within the core hole. **Table 2** provides construction details for each monitoring well. The sand pack consisting of US Silica size #00 sand or equivalent extended approximately 3 ft or 20 percent of the screen length (whichever was greater) above the top of the screen. Due to potential high chloride concentrations in the groundwater and the inability of bentonite to properly hydrate in high chloride conditions, a 2 to 3-foot sand choke consisting of US Silica size #000 sand or equivalent was installed above the sand pack and into the 4-inch casing to prevent grout infiltration into the sand pack. A Portland cement/bentonite grout was installed to grade and an aluminum locking cover was installed on the casing (**Figure 14**).

3.1.5. Geotechnical Assessment

Geotechnical testing, which consisted of grain size/hydrometer, estimated dry bulk density, and moisture content, was conducted on 51 geotechnical samples selected from the 32 new monitoring well locations. Sample intervals are summarized in Table 3-2 below. The geotechnical samples were analyzed by GeoTesting Express of Syracuse, New York. The geotechnical data were used in conjunction with the visual observations from the split-spoon samples to understand the physical properties of the formations. **Attachment 2** presents the results of the geotechnical analysis.

Table 3-2 Summary of Geotechnical Sampling Intervals

Location	Sample Depth Interval (ft bgs)	Location	Sample Depth Interval (ft bgs)
SB915-MW-104S	18-20	SB915-MW-111D	89-91
SB915-MW-104I	30-32	SB915-MW-111BR	35-37
SB915-MW-104I	42-44	SB915-MW-111BR	75-77
SB915-MW-104I	66-68	SB915-MW-111BR	99-101
SB915-MW-105S	10-12	SB915-MW-112S	16-18
SB915-MW-106S	12-14	SB915-MW-112I	40-42
SB915-MW-106I	24-26	SB915-MW-112I	52-54
SB915-MW106I	38-40	SB915-MW-113S	18-20
SB915-MW-107S	14-16	SB915-MW-114BR	14-16
SB915-MW-107I	52-54	SB915-MW-115BR	18-20
SB915-MW-107D	100-102	SB915-MW-115BR	54-56
SB915-MW-107BR	28-30	SB915-MW-116S	12-14
SB915-MW-107BR	68-70	SB915-MW-117S	20-22
SB915-MW-107BR	78-80	SB915-MW-118S	8-10
SB915-MW-107BR	108-110	SB915-MW-118BR	22-24
SB915-MW-108S	19-21	SB915-MW-118BR	32-34
SB915-MW-108D	54-56	SB915-WB-07R	18-20
SB915-MW-108BR	32-34	SB915-WB-07R	44-46
SB915-MW108BR	66-68	SB915-WB-07R	50-52
SB915-MW-109S	10-12	SB915-WB-07R	70-72
SB915-MW-109I	24-26	WB915-WB-09L	18-20
SB915-MW-109I	48-50	WB915-WB-09L	38-40
SB915-MW-110S	12-14	WB915-WB-09L	66-68
SB915-MW-111S	17-19	WB915-WB-10L	12-14
SB915-MW-111I	58-60	WB915-WB-10L	34-36
		WB915-WB-10L	64-66

bgs = Below ground surface

3.1.6. Monitoring Well Development

Newly installed monitoring wells were developed following installation to remove fine grained material within the sand pack and establish a good hydraulic connection with the formation. To provide adequate time for the cement/bentonite grout to cure prior to development, each well was left undisturbed for a minimum period of one week before development. Selected historic monitoring wells (SB915-WB-05L, SB915-MW-36D, SB915-WB-

10U) to be utilized during the investigation were redeveloped. Well development was conducted using the method described below.

An electrically-driven inertial pump (Watterra®) was used for development of the monitoring wells. Water quality measurements including pH, temperature, specific conductance, specific gravity (density) via hydrometer, and turbidity were recorded during well development. Development was considered complete when the turbidity was below 50 Nephelometric Turbidity Unit (NTU) or ten well volumes were purged from the well. Well development logs are provided in **Appendix D**.

3.1.7. Hydraulic Conductivity Testing

In situ hydraulic conductivity tests (slug tests) were performed on 32 newly installed monitoring wells and 49 existing monitoring wells. In addition, 38 hydraulic conductivity tests conducted during the SCA Hydrogeologic Investigation were used (Table 3-3 below). Monitoring wells SB915-MW-50S, SB915-MW-51S, SB915-MW-89SR, SB915-MW-105S, and SB915-MW-114BR were dry on all occasions hydraulic conductivity tests were attempted. Two wells (SB915-IMW-04S and SB915-MW-09U) had obstructions in the wells, and hydraulic conductivity tests could not be performed.

Table 3-3 Summary of Hydraulic Conductivity Measurement Locations

Newly Installed Monitoring Wells		Existing Monitoring Wells		
SB915-MW-104I	SB915-WB-09L	SB915-IMW-01S	SB915-MW-88BR	SB915-MW-99S
SB915-MW-104S	SB915-WB-10L	SB915-IMW-02S	SB915-MW-88D	SB915-MW-100S
SB915-MW-105BR		SB915-IMW-03S	SB915-MW-88I	SB915-MW-101S
SB915-MW-105S		SB915-IMW-04S	SB915-MW-88S	SB915-MW-102S
SB915-MW-106I		SB915-IMW-05S	SB915-MW-89BR	SB915-MW-103S
SB915-MW-106S		SB915-IMW-06S	SB915-MW-89D	SB915-PZ-07D
SB915-MW-107BR		SB915-MW-01	SB915-MW-89I	SB915-PZ-07I
SB915-MW-107D		SB915-MW-03	SB915-MW-89S	SB915-PZ-07S
SB915-MW-107I		SB915-MW-04	SB915-MW-89SR	SB915-WB-01L
SB915-MW-107S		SB915-MW-36D	SB915-MW-90BR	SB915-WB-02L
SB915-MW-108BR		SB915-MW-36I	SB915-MW-90I	SB915-WB-02U
SB915-MW-108D		SB915-MW-36S	SB915-MW-90S	SB915-WB-03L
SB915-MW-108S		SB915-MW-40S	SB915-MW-91BR	SB915-WB-03U
SB915-MW-109I		SB915-MW-42D	SB915-MW-91D	SB915-WB-04L
SB915-MW-109S		SB915-MW-42I	SB915-MW-91I	SB915-WB-04U
SB915-MW-110S		SB915-MW-42S	SB915-MW-91S	SB915-WB-05L
SB915-MW-111BR		SB915-MW-43S	SB915-MW-91SN	SB915-WB-05M
SB915-MW-111D		SB915-MW-50S	SB915-MW-92BR	SB915-WB-05R
SB915-MW-111I		SB915-MW-51S	SB915-MW-92D	SB915-WB-05U
SB915-MW-111S		SB915-MW-53D	SB915-MW-92I	SB915-WB-06

Table 3-3 Summary of Hydraulic Conductivity Measurement Locations

Newly Installed Monitoring Wells	Existing Monitoring Wells		
SB915-MW-112I	SB915-MW-53I	SB915-MW-92S	SB915-WB-07L
SB915-MW-112S	SB915-MW-53S	SB915-MW-93BR	SB915-WB-07U
SB915-MW-113S	SB915-MW-59S	SB915-MW-93D	SB915-WB-09U
SB915-MW-114BR	SB915-MW-60S	SB915-MW-93I	SB915-WB-10U
SB915-MW-1115BR	SB915-MW-70D	SB915-MW-93S	SB915-WB-BL
SB915-MW-116S	SB915-MW-70S	SB915-MW-94S	WB18-MW-14BR
SB915-MW-117S	SB915-MW-85D	SB915-MW-95S	WB18-MW-14D
SB915-MW-118BR	SB915-MW-87BR	SB915-MW-96S	
SB915-MW-118S	SB915-MW-87I	SB915-MW-97S	
SB915-WB-07R	SB915-MW-87S	SB915-MW-98S	

The slug tests were performed to estimate the horizontal hydraulic conductivity of materials surrounding the well screen. Both rising and falling head tests were performed at each well when the screen was fully saturated. Only rising head tests were performed on wells with partially saturated screens. The groundwater level measurements were recorded using an electronic data logger. The data collected were analyzed using the Bouwer and Rice (1976) method with the software AquiferWin®. For monitoring wells showing an oscillatory response due to high hydraulic conductivity, the data were analyzed using the High Hydraulic Conductivity Test (K-Test) spreadsheets provided by Butler and Garnett (2000). A summary of the estimated hydraulic conductivities is presented in **Table 3**, and the data plots are presented in **Appendix E**.

3.1.8. Groundwater Elevation Monitoring

Groundwater elevations within each monitoring well were evaluated by collecting quarterly water level measurements from each of the 32 newly installed monitoring wells and 95 historic monitoring wells. The quarterly water levels were collected before the start of the groundwater sampling for each of the four quarters. **Figure 15** shows the quarterly groundwater gauging locations, and **Table 2** presents a summary of quarterly depth to water measurements and calculated groundwater elevations. Water level measurements were referenced to the top of PVC casing. Groundwater specific gravity (density) measurements were collected via hydrometer from each location by lowering a bottom loading stainless steel bailer into the screen interval and removing a water sample for measurement.

3.1.8.1. Equivalent Fresh Water Head Calculations

Equivalent fresh water head (EFH) values were calculated to account for variations in the density of the groundwater present at the Site. Conventional groundwater head (water level) is calculated by measuring the depth to water and subtracting the depth to water from a reference elevation. In using this method, the well casing acts as a pressure gauge. The measured water column in the well is equal to the pressure (P) in the aquifer at the base of the well (assumes well has an infinitely small screen) divided by the density of the water (ρ) in the well and the gravitational constant (g).

$$Water\ column = \frac{P}{\rho g}$$

The height of the water column is a function of the density of the water. Therefore, the groundwater head calculated by the conventional method of water level measurements is a function of the density of the water in the well column.

The true head or potential is not a function of the density of the water column in the well. To express head using a common reference, the concept of EFH was introduced. The EFH is calculated using the following formula:

$$EFH = [Density \times Water\ level] + [(1 - Density) \times Screen\ depth],$$

where Density = measured specific gravity by hydrometer, Water level = measured water level (elevation), and Screen depth = elevation of screen midpoint. **Attachment 3** details the EFH calculation.

3.1.9. Surface Water Elevation Monitoring

A total of 11 surface water staff gauges were proposed to be installed. Four locations were proposed to be installed within NMC, one location within Iron Brook, one location at the gravel pit on Wastebeds 12-15, one location downstream of Outfall 019, one location in the ponded area on the northern side of Wastebed 11, one location in SYW-18, one location in CAM-21, and one location in CAM-26. Due to conflicts posed by the concurrent work being conducted to remediate Geddes Brook, two staff gauges (SB915-SWSG-01 within NMC and SB915-SWSG-07 within Geddes Brook) were not installed. The other nine surface water staff gauges were installed within the proposed water bodies.

3.1.10. Groundwater Quality Sampling and Analysis

Groundwater samples were collected using low flow purging techniques. Low flow purging involves inserting a submersible stainless steel pump (Grundfos Rediflow®) and dedicated polyethylene tubing within the screened interval of the well and purging at a maximum rate of 0.5 L/min. The submersible pump was used during the first quarter sampling event when the wells were sampled for the Expanded Parameters list which included VOCs. During the following three quarters, a peristaltic pump was used for the Routine Parameters list when the groundwater elevation allowed, which does not include VOCs. If a well was not sampled during the first quarter and was sampled in one of the subsequent quarters for the Expanded Parameters list, a submersible pump was used because of the VOCs analysis. During purging, groundwater levels were monitored to document stabilization. In addition, groundwater quality parameters including pH, conductivity, temperature, oxidation-reduction potential (ORP), turbidity, and dissolved oxygen were monitored continuously using an in-line meter. Samples were collected directly from the tubing once the groundwater quality parameters stabilized or after the removal of three well volumes and are included on the groundwater sampling logs (**Appendix F**). If the hydrogeologic unit did not produce sufficient water to allow for low flow purging, a bailer was used to purge the well and collect a sample once a sufficient amount of water entered the well. The field parameters collected during the groundwater purging and sampling were recorded on a groundwater sampling log (**Appendix F**). The COC forms are included in **Appendix G (G-1 through G-4)**.

Baseline water quality at the Site was established by sampling the Site monitoring wells for the Expanded Parameters list for the first sampling event at each monitoring well and Routine Parameters list for a maximum of three additional quarters for the Closure Investigation wells. The 22 monitoring wells associated with the SCA Hydrogeologic assessment were sampled for Baseline Parameters list. A full list of analytic parameters is presented in **Appendix H.** The analytical summary is presented below in Table 3-5. The sampling locations are presented on **Figure 13**. Groundwater quality samples were collected by O'Brien & Gere field personnel and analyzed by TestAmerica Laboratories, Inc. A summary of the locations sampled and the analyses performed is below.

Table 3-4 Groundwater Sample Location Analytical Testing Summary

Location	Quarter 1 May 2012	Quarter 2 July 2012	Quarter 3 November 2012	Quarter 4 February 2013
WB1-8-MW-14D	Expanded	Routine	Routine	Routine

Table 3-4 Groundwater Sample Location Analytical Testing Summary

Location	Quarter 1 May 2012	Quarter 2 July 2012	Quarter 3 November 2012	Quarter 4 February 2013
WB1-8-MW-14BR	Expanded	Routine	Routine	Routine
SB915-MW-40S	NS[1]	NS[1]	NS[1]	NS[1]
SB915-MW-42S	Expanded	NS[1]	NS[1]	NS[1]
SB915-MW-42I	Expanded	Routine	Routine	Routine
SB915-MW-42D	Expanded	Routine	Routine	Routine
SB915-MW-43S	Expanded	NS[1]	NS[1]	NS[1]
SB915-MW-50S	NS[1]	NS[1]	NS[1]	NS[1]
SB915-MW-51S	NS[1]	NS[1]	NS[1]	NS[1]
SB915-MW-53S	NS[1]	NS[1]	NS[1]	NS[1]
SB915-MW-53I	Expanded	Routine	Routine	Routine
SB915-MW-53D	Expanded	Routine	Routine	Routine
SB915-MW-59S	Expanded	Routine	Routine	Routine
SB915-MW-60S	Expanded	Routine	Routine	Routine
SB915-MW-70S	Expanded	Routine	Routine	Routine
SB915-MW-70D	Expanded	Routine	Routine	Routine
SB915-MW-85D	Expanded	Routine	Routine	Routine
SB915-MW-108S	Expanded	NS[1]	NS[1]	NS[1]
SB915-MW-108D	Expanded	Routine	Routine	Routine
SB915-MW-108BR	Expanded	Routine	Routine	Routine
SB915-MW-109S	Expanded	Routine	Routine	Routine
SB915-MW-109I	Expanded	Routine	Routine	Routine
SB915-MW-110S	Expanded	Routine	Routine	Routine
SB915-MW-111S	Expanded	Routine	Routine	Routine
SB915-MW-111I	Expanded	Routine	Routine	Routine
SB915-MW-111D	Expanded	Routine	Routine	Routine
SB915-MW-111BR	Expanded	Routine	Routine	Routine
SB915-MW-112S	Expanded	Routine	Routine	Routine
SB915-MW-112I	Expanded	Routine	Routine	Routine
SB915-MW-113S	Expanded	Routine	Routine	Routine

Table 3-4 Groundwater Sample Location Analytical Testing Summary

Location	Quarter 1 May 2012	Quarter 2 July 2012	Quarter 3 November 2012	Quarter 4 February 2013
SB915-WB-05U	Expanded	Routine	NS[1]	Routine
SB915-WB-05M	Expanded	Routine	Routine	Routine
SB915-WB-05L	NS[2]	Expanded	Routine	Routine
SB915-WB-05R	Expanded	Routine	Routine	Routine
SB915-WB-06	Expanded	Routine	Routine	Routine
SB915-WB-07U	Expanded	Routine	Routine	Routine
SB915-WB-07L	Expanded	Routine	Routine	Routine
SB915-WB-07R	Expanded	Routine	Routine	Routine
SB915-WB-09U	Expanded	Routine	Routine	NS[1]
SB915-WB-09L	Expanded	Routine	Routine	Routine
SB915-WB-10U	Expanded	Routine	Routine	Routine
SB915-WB-10L	Expanded	Routine	Routine	Routine
SB915-IMW-01S	Expanded	Routine	Routine	Routine
SB915-IMW-02S	Expanded	Routine	Routine	Routine
SB915-IMW-03S	Expanded	Routine	Routine	Routine
SB915-IMW-04S	Expanded	Routine	Routine	Routine
SB915-IMW-05S	Expanded	Routine	Routine	Routine
SB915-IMW-06S	Expanded	Routine	Routine	Routine
SB915-MW-01	Expanded	NS[1]	Routine	Routine
SB915-MW-03	Expanded	Routine	Routine	Routine
SB915-MW-04	Expanded	Routine	Routine	Routine
SB915-MW-36S	Expanded	NS[1]	NS[1]	Routine
SB915-MW-36I	Expanded	Routine	Routine	Routine
SB915-MW-36D	NS[2]	Expanded	Routine	Routine
SB915-MW-104S	Expanded	Routine	Routine	Routine
SB915-MW-104I	Expanded	Routine	Routine	Routine
SB915-MW-105S	NS[1]	NS[1]	NS[1]	NS[1]
SB915-MW-105BR	Expanded	Routine	Routine	Routine
SB915-MW-106S	Expanded	Routine	Routine	Routine

Table 3-4 Groundwater Sample Location Analytical Testing Summary

Location	Quarter 1 May 2012	Quarter 2 July 2012	Quarter 3 November 2012	Quarter 4 February 2013
SB915-MW-106I	Expanded	Routine	Routine	Routine
SB915-MW-107S	Expanded	Routine	Routine	Routine
SB915-MW-107I	Expanded	Routine	Routine	Routine
SB915-MW-107D	Expanded	Routine	Routine	Routine
SB915-MW-107BR	Expanded	Routine	Routine	Routine
SB915-MW-114BR	NS[1]	NS[1]	NS[1]	NS[1]
SB915-MW-115BR	Expanded	Routine	Routine	Routine
SB915-MW-116S	Expanded	Routine	Routine	Routine
SB915-MW-117S	Expanded	Routine	Routine	Routine
SB915-MW-118S	Expanded	Routine	Routine	Routine
SB915-MW-118BR	Expanded	Routine	Routine	Routine
SB915-WB-01L	Expanded	Routine	Routine	Routine
SB915-WB-03L	Expanded	Routine	Routine	Routine
SB915-WB15B/15S	NS[1]	NS[1]	NS[1]	NS[1]
SB915-PW-05(CMS-02)	NS[3]	NS[3]	NS[3]	NS[3]
SB915-PW-04(B1-03)	NS[3]	NS[3]	NS[3]	NS[3]
SB915-PZ-07S	Expanded	Routine	NS[1]	Routine
SB915-PZ-07I	Expanded	Routine	Routine	Routine
SB915-PZ-07D	Expanded	Routine	Routine	Routine
SB915-MW-87S	Baseline	Baseline	Baseline	Baseline
SB915-MW-87I	Baseline	Baseline	Baseline	Baseline
SB915-WB-02L	Baseline	Baseline	Baseline	Baseline
SB915-MW-87BR	Baseline	Baseline	Baseline	Baseline
SB915-MW-88S	Baseline	Baseline	Baseline	Baseline
SB915-MW-88I	Baseline	Baseline	Baseline	Baseline
SB915-MW-88D	Baseline	Baseline	Baseline	Baseline
SB915-MW-88BR	Baseline	Baseline	Baseline	Baseline
SB915-MW-89S	Baseline	Baseline	Baseline	Baseline
SB915-MW-89I	Baseline	Baseline	Baseline	Baseline

Table 3-4 Groundwater Sample Location Analytical Testing Summary

Location	Quarter 1 May 2012	Quarter 2 July 2012	Quarter 3 November 2012	Quarter 4 February 2013
SB915-MW-89D	Baseline	Baseline	Baseline	Baseline
SB915-MW-89BR	Baseline	Baseline	Baseline	Baseline
SB915-MW-90S	Baseline	Baseline	Baseline	Baseline
SB915-MW-90I	Baseline	Baseline	Baseline	Baseline
SB915-WB-04L	Baseline	Baseline	Baseline	Baseline
SB915-MW-90BR	Baseline	Baseline	Baseline	Baseline
SB915-MW-91S	Baseline	Baseline	Baseline	Baseline
SB915-MW-91I	Baseline	Baseline	Baseline	Baseline
SB915-MW-91D	Baseline	Baseline	Baseline	Baseline
SB915-MW-91BR	Baseline	Baseline	Baseline	Baseline
SB915-MW-92S	Baseline	Baseline	Baseline	Baseline
SB915-MW-92I	Baseline	Baseline	Baseline	Baseline
SB915-MW-92D	Baseline	Baseline	Baseline	Baseline
SB915-MW-92BR	Baseline	Baseline	Baseline	Baseline

Notes:
Expanded Laboratory Methods are listed in **Appendix H-1**
Routine Laboratory Methods are listed in **Appendix H-2**
Baseline Laboratory Methods are listed in **Appendix H-3**
NS[1]: Not Sampled (Dry)
NS[2]: Not Sampled (Obstruction in well)
NS[3]: Not Sampled (Could not locate)

3.1.11. Subsurface Leachate Sampling

Leachate samples were collected from the current leachate collection systems to compare to shallow groundwater being collected at the shallow monitoring wells adjacent to the collection systems. One sample per quarter was collected from each collection point of the leachate collection systems currently in operation. The sampling locations are presented on **Figure 16**. The analytical summary is presented below in Table 3-5. A full list of analytic parameters is presented in **Appendix H**.

Table 3-5 Subsurface Leachate Sample Locations and Analytical Summary

Location	Quarter 1 May 2012	Quarter 2 August 2012	Quarter 3 December 2012	Quarter 4 February 2013
SB9-15-MH-01	Expanded	Routine	Routine	Routine
SB9-15-MH-02	Expanded	Routine	Routine	Routine
SB9-15-MH-03	Expanded	Routine	Routine	Routine
SB9-15-MH-04	Expanded	Routine	Routine	Routine

Table 3-5 Subsurface Leachate Sample Locations and Analytical Summary

Location	Quarter 1 May 2012	Quarter 2 August 2012	Quarter 3 December 2012	Quarter 4 February 2013
SB9-15-MH-05	Expanded	Routine	Routine	Routine
SB9-15-MH-06	Expanded	Routine	Routine	Routine
SB9-15-MH-07	Expanded	Routine	Routine	Routine
SB9-15-MH-08	Expanded	Routine	Routine	Routine
SB9-15-MH-09	Expanded	Routine	Routine	Routine
SB9-15-MH-10	Expanded	Routine	Routine	Routine
SB9-15-MH-11	Expanded	Routine	Routine	Routine
SB9-15-MH-12	Expanded	Routine	Routine	Routine
SB9-15-MH-13	Expanded	Routine	Routine	Routine
SB9-15-MH-14	Expanded	Routine	Routine	Routine
SB9-15-MH-15	Expanded	Routine	Routine	Routine
SB9-15-MH-16	Expanded	Routine	Routine	Routine
SB9-15-MH-17	NS[1]	NS[1]	Expanded	Routine
SB9-15-MH-18	Expanded	Routine	Routine	Routine
SB9-15-PCP-01	Expanded	NS[2]	Routine	Routine
SB9-15-PCP-02	NS[3]	NS[2]	NS[2]	Expanded
SB9-15-PCP-03	NS[4]	NS[4]	NS[4]	NS[4]

Notes:
Expanded Laboratory Methods are listed in **Appendix H-1**
Routine Laboratory Methods are listed in **Appendix H-2**
1 – Insufficient flow at location to collect sample
2 – Location dry; not sampled
3 – Perforated Collection Pipe (south of Wastebed 9/10) installed during 2012. Sampling commenced subsequent to completion of system.
4 – Perforated Collection Pipe (south of Wastebed 11) scheduled for installation during fall 2013; location not installed as the combined flow from Phases 4 and 5 seep mitigation systems is sampled at PCP-02.

Subsurface leachate samples were collected by immersing a glass container in the respective catch basin or using a peristaltic pump and dedicated tubing with the exception high-resolution mercury samples which were collected using method 1669 (United States Environmental Protection Agency [USEPA], 1996). The glass container or tubing was then used to fill the laboratory containers. The presence of a sufficient amount of water determined whether a sample could be collected and is summarized above in Table 3-5. Prior to preservation of the subsurface leachate samples, the temperature, pH, turbidity, conductivity, and dissolved oxygen were measured in the field and recorded on a field sampling sheets. The field data is provided on **Table 4**. The sample

containers were placed in a cooler containing ice and submitted with an appropriate COC to a TestAmerica Laboratories, Inc. for the analyses listed above on Table 3-5. The COC forms are included in **Appendix G-5**.

3.1.12. Surface Water Sampling

Surface water was collected from on-site and off-site surface water bodies to evaluate the potential impacts of Site groundwater and/or surface water runoff to these water bodies and the potential for migration of Site-related constituents. Twenty locations were sampled including seven sample locations identified for NMC in the July 5, 2012 letter work plan. The sampling locations are presented on **Figure 17**. The analytical summary is presented below in Table 3-6. A full list of analytic parameters is presented in **Appendix H**.

Table 3-6 Surface Water Sample Location Analyses Summary

Location	Quarter 1 July 2012	Quarter 2 September 2012	Quarter 3 November 2012	Quarter 4 February 2013
NMC Reference Reach	Expanded + PISCES[1]	Routine	Routine	Routine + PISCES
NMC Reach A	Expanded	Routine	Routine	Routine
NMC Reach B	Expanded + PISCES[1]	Routine	Routine	Routine + PISCES
NMC Reach C	Expanded + PISCES[1]	Routine	Routine	Routine + PISCES
NMC Reach D	Expanded + PISCES[1]	Routine	Routine	Routine + PISCES
NMC Reach E	Expanded + PISCES[1]	Routine	Routine	Routine + PISCES
NMC Reach F	Expanded + PISCES[1]	Routine	Routine	Routine + PISCES
Outfall 011	NS – No Flow	NS – No Flow	Expanded	Routine
Outfall 017	NS - Dry	NS – No Flow	Expanded	Routine
Outfall 018	NS - Dry	NS - Dry	NS - Dry	NS - Dry
Outfall 019	NS – No Flow	NS – No Flow	Expanded	Routine
Gravel Pit	Expanded + PISCES[1]	Routine	Routine	Expanded + PISCES[3]
Retention Pond #1	Expanded + PISCES[1]	Routine	Routine	Routine + PISCES
Retention Pond #2-1	Expanded	Routine	Routine	Routine
Retention Pond #2-2	Expanded + PISCES	Routine	Routine	Routine + PISCES
Iron Brook	Expanded + PISCES[1]	Routine	Routine	Routine + PISCES
Ponded Area North of WB11	Expanded + PISCES[2]	NS[1]	Expanded	Expanded + PISCES[3]
Interbed Area #1	Expanded	Routine	Routine	Routine
Interbed Area #2	Expanded + PISCES[1]	Routine	Routine	Routine + PISCES
Interbed Area #3	Expanded	Routine	Routine	Routine

Notes:
Expanded Laboratory Methods are listed in **Appendix H-1**
Routine Laboratory Methods are listed in **Appendix H-2**

Table 3-6 Surface Water Sample Location Analyses Summary

Location	Quarter 1 July 2012	Quarter 2 September 2012	Quarter 3 November 2012	Quarter 4 February 2013

NS – Not Sampled

1 – PISCES 1668 Polychlorinated Biphenyl (PCB) samples lost by laboratory and resampled in 4th quarter.

2 – PISCES sample not collected due to exposure of sampler to the atmosphere.

3 – PISCES sample not collected because sampler was stuck in ice.

Surface water samples were collected by immersing a glass container in the surface water body with the exception of polychlorinated biphenyl (PCB) and pesticide samples (discussed below), and high-resolution mercury samples that were collected using method 1669 (USEPA, 1996). The glass container was then used to fill the laboratory containers. The presence of a sufficient amount of water determined whether a sample could be collected and is summarized above in Table 3-6. Prior to preservation of the surface water samples, the temperature, pH, turbidity, conductivity, and dissolved oxygen were measured in the field and recorded on a field sampling sheets. The field data is provided on **Table 5**. The sample containers were placed in a cooler containing ice and submitted with an appropriate COC to a TestAmerica Laboratories, Inc. for the analyses listed above on Table 3-6. The COC forms are included in **Appendix G-6**.

The required PCB and pesticide samples were collected using passive *in situ* concentration extraction samplers (PISCES) as available. These samplers were developed by Dr. John Hassett at the SUNY ESF. Dr. Hassett was contacted prior to sampling to obtain the PISCES units and the standard sampling protocol developed by him for these compounds. Honeywell and O'Brien & Gere were able to obtain 12 PISCES samplers. The deployment summary is presented above in Table 3-6.

3.1.13. Sediment Sampling

One sediment sample was collected from three of the target location ("whitish" lens at Reach C and sediment at Reach D and Reach F) identified during the Phase 1 SAA in NMC to evaluate potential impacts to NMC from Wastebeds 9-15. The reference reach was not sampled during the four quarters of the Closure Investigation due to lack of substrate. This was discussed with the NYSDEC on June 18, 2013, and it was agreed to collect a sediment sample further upstream above the Amboy Dam during the July 2013 (quarter 6) sampling event. These data results will be submitted to NYSDEC upon receipt of the validated data. The sampling locations are presented on **Figure 17**. The analytical summary is presented below in Table 3-7. A full list of analytic parameters is presented in **Appendix H**.

Table 3-7 Sediment Sample Location Analyses Summary

Location	Quarter 1 July 2012	Quarter 2 September 2012	Quarter 3 November 2012	Quarter 4 February 2013
NMC Reference Reach	NS – No substrate to sample[1]	NS – not required	NS – not required	NS – No substrate to sample[1]
NMC Reach C	Expanded	NS – not required	NS – not required	PCBs[2]
NMC Reach D	Expanded	NS – not required	NS – not required	PCBs[2]
NMC Reach F	Expanded	NS – not required	NS – not required	PCBs[2]

Notes:

Expanded Laboratory Methods are listed in **Appendix H-1**

Routine Laboratory Methods are listed in **Appendix H-2**

NS – Not Sampled

1 – Reference reach (below Amboy Dam) sediment consisted of cobles.

Table 3-7 Sediment Sample Location Analyses Summary				
Location	**Quarter 1 July 2012**	**Quarter 2 September 2012**	**Quarter 3 November 2012**	**Quarter 4 February 2013**

2 – PCB samples were collected in the 4th quarter to be compared to the surface water PISCES PCB samples re-collected at that time.

The samples were collected from the 0 to 1 ft interval using Lexan tubing, bucket auger, or similar sampling device and transferred to a dedicated aluminum pan for homogenization. Prior to homogenization, a representative sample was collected for VOCs. Subsequent to homogenization, sediment was transferred to the appropriate laboratory containers for the remainder of the analyses and placed in a cooler containing ice. These samples were submitted with an appropriate COC to TestAmerica Laboratories, Inc. for the analyses presented on Table 3-7 above. The COC forms are included in **Appendix G-7**.

3.1.14. Phase 1 SAA Work, Soil Sampling, and Macroinvertebrate Sampling

The Phase 1 SAA scope of work including the macroinvertebrate sampling is included in **Appendix I**.

3.1.15. Site Topographic and Location Survey

A topographic survey of Wastebeds 9-15 and portions of the SAA was performed by Richard Rybinski, L.S. in 2004 (**Figure 3**). The mapping of existing features included monitoring wells, hydrants, above ground utilities, manholes, storm drains, outfalls, ditches, foundations, driveways, roads, walkways, fences, wetland boundaries, and the outline of brush and wooded areas. The new structures have been surveyed and added to the Site survey as additional work has been completed since the 2004 survey, such as additional monitoring wells. An additional survey was performed subsequent to the completion of the field program. Both surveys were performed by Thew Associates PE-LS, PLLC.

The Closure Investigation monitoring well locations were surveyed by New York-licensed surveyor Thew Associates PE-LS, PLLC. For monitoring wells, the New York State Plane coordinates (North American Datum [NAD] 83) were surveyed, and the ground surface elevation (North American Vertical Datum [NAVD] 88) and top of casing elevation were surveyed to allow for the calculation of groundwater elevations and development of groundwater flow maps. Elevations were surveyed to the nearest 0.01 ft. The location and elevation data are presented in **Table 2**.

3.1.16. Residential Well Survey

A survey of public and private wells within a 2-mile radius of the Site was completed to obtain relevant and available information.

O'Brien & Gere hired Environmental Data Resources, Inc. (EDR) to perform a water well search in a 2-mile radius from the Site on January 10, 2011 (EDR, 2011). The survey searched available government records on the target property and within the search radius around the target property from the databases outlined on pages 3 through 4 of the Executive Summary of the EDR Report (**Attachment 4-1**). Based on the residential well survey, no public or private drinking water wells were identified within the 2-mile search radius. A map of the search radius is presented in **Attachment 4-2**.

3.1.17. Air Sampling

Air sampling was conducted on Wastebed 13 and at the property boundaries as part of the SCA operation. These data are considered representative of conditions at the Site and are available at http://www.lakecleanup.com/community-health-safety/air-monitoring/.

3.2. SITE EXPLOSIVE GAS INVESTIGATION

As was stated in the Work Plan (O'Brien & Gere, 2011a), an explosive gas survey is not necessary at this Site due to the nature of the material deposited at Wastebeds 9-15. The material historically deposited at this Site is largely inorganic in nature and includes calcium carbonate, calcium silicate, magnesium hydroxide, sodium

chloride, calcium chloride and smaller amounts of other carbonates, sulfates, salts, and metallic oxides (C&S, 1980). These compounds do not degrade into methane or other flammable gases.

Material currently being deposited on Wastebed 15 by the Town of Camillus includes C&D debris. This area is an active landfill operation. If an explosive gas investigation is determined to be warranted in this area, it will be performed by the Town of Camillus at the time of the C&D Landfill closure.

3.3. SITE SURFACE LEACHATE INVESTIGATION

A series of seep reconnaissance efforts were performed to evaluate Site surface leachate, assess Site seep mitigation work performed to date, and identify areas of seepage with flow adequate for sample collection. Site surface leachate seeps are areas where leachate from the wastebeds is expressing itself at the ground surface. One baseline reconnaissance was performed between October 4, 2011 and October 6, 2011. During the reconnaissance efforts, 52 previously identified seeps were inspected, and 33 new areas of seepage, CIWP-SP-01 through CIWP-SP-33 were identified, and locations were evaluated for measureable flow that could be sampled. **Figure 18** presents the location of seeps observed on-site, including both mitigated and active seeps. Subsequent to the baseline reconnaissance, four additional reconnaissance efforts were performed on:

- February 14, 2012
- August 23 through 24 and 27, 2012
- December 13 and 14, 2012
- March 14 and 15, 2013

Each seep reconnaissance was performed through visual observation of all Site berms and the NMC bank. The berms were evaluated, previously identified seep locations were inspected, and new seep locations were identified (if present). New locations were staked and the locations were marked using a hand held Trimble XH GPS unit (with subfoot accuracy). The NMC bank was evaluated from either a shallow draft boat or wading along the creek bank depending on water levels.

Areas of seepage were identified as either having flow adequate for sample, trace flow, not adequate for sample, moist surface material with no surface flow, or dry with signs of previous seepage. Dry seeps were identified by the presence of calcite crust and stressed vegetation. A brief description of each reconnaissance and samples collected is presented below.

3.3.1. February 2012

During the February 2012 reconnaissance, no seeps were identified with flow adequate for sample collection. Seeps SB915-SP-45, SB915-SP-51, and CIWP-SP-08 were found with trace flow two low to be sampled. Several other seeps were observed with moist surface material and no flow along the northern berm of Wastebed 12, the western berm of Wastebed 14, and along the NMC bank.

3.3.2. August 2012

During the August 2012 reconnaissance, no seeps were identified with flow adequate for sample collections. Trace flow was observed at the very western end of seep SB915-SP-49 and SB915-SP-15. Several seep areas along the NMC bank and the northern berm of Wastebed 12 were observed with moist surface material and no flow.

3.3.3. December 2012

During the December 2012 reconnaissance, no seeps were identified with flow adequate for sample collection. Trace flow was observed at the very western end of seep SB915-SP-49. Several seep areas along the northern berm of Wastebed 12 and the western berm of 14 were observed with moist surface material and no flow.

3.3.4. March 2013

During the March 2013 reconnaissance, seep SB915-CIWP-SP-33 was identified to have flow adequate for sample collection. Seep SB915-CIWP-SP-33 is located at the base of the corner between Wastebeds 14 and 15 (**Figure 18**). The sample was collected on March 18, 2013. A glass container was immersed in the seep stream

and used to fill the laboratory provided glassware. The surface leachate sample was collected and sent to TestAmerica Laboratories, Inc. for the Part 360 Expanded Parameter list. The Expanded Parameter list is included in **Appendix H-1**, and the COC is included in **Appendix G-8**. The analytical results are discussed in Section 5.

At the time of sample collection, field measurements for temperature, pH, and conductivity were recorded and were 10.9 ^{o}C, 11.61 S.U., and 9.00 milliSiemens/cm (mS/cm), respectively.

In addition to the flow observed at CIWP-SP-33, trace flow not adequate for sample collection was observed at seeps locations CIWP-SP-07 and 08, the western end of SB915-SP-49, CIWP-SP-16, SB915-SP-48, and SB915-SP-02. Several seep areas along the northern berm of Wastebed 12 and the western berm of Wastebed14 were observed with moist surface material and no flow.

3.4. SITE VECTOR INVESTIGATION

As stated in the Work Plan (O'Brien & Gere, 2011a), a vector investigation is currently not warranted at the Site. Due to the nature of the materials deposited at Wastebeds 9-15, it is not likely that nuisance vectors such as rodents and birds would be attracted to the area. Observations made during the past two decades of investigation support this, as well as observations made during the Closure Investigation field program.

Honeywell currently has a spraying program in place to control the mosquito population at the Site. The program was implemented 2009 and included the annual spraying of the Site in late July/early August of 2009 and 2011 with an insecticide (adulticide) to decrease the population. Based on the fact that a program was in place, it was decided that an insect vector survey was not needed.

3.5. DATA MANAGEMENT

Definitive data was generated in the laboratory and during the field program as described above in this section. The laboratory-generated data was entered into the laboratory database management system and presented in data packages. The laboratory performed the data review process described in the Quality Assurance Project Plan (QAPP; O'Brien & Gere, 2011b).

Analytical and field data was managed in the Locus Technologies EIM™ environmental data management system (EDMS) which is a relational database management system. Laboratory analytical data was provided in electronic data deliverable (EDD) format for direct upload into EIM™ EDMS. Associated field data was entered into EIM™ EDMS using the appropriate electronic upload format. Data validation qualifiers were entered into EIM™ EDMS manually and checked independently. The EIM™ EDMS was used to provide custom data queries and tables to support data analysis and preparation of this report.

3.6. DATA VALIDATION

Analytic data was validated in accordance with applicable USEPA and NYSDEC guidance as discussed in the QAPP (O'Brien & Gere, 2011b). In accordance with the agreement between Honeywell and the NYSDEC, 10% of the analytic data was validated and 100% of the calibration data was validated.

Data affected by excursions from the quality assurance/quality control (QA/QC) criteria previously described were qualified based on guidance provided in the following documents (where applicable) and professional judgment:

- USEPA. 2006a. USEPA Region II Evaluation of Metals Data for the CLP Program, SOP HW-2 Revision 13. Reviewed 2009. Albany, New York.
- USEPA. 2006b. USEPA Region II Validating Semivolatile Organic Compounds by SW-846 Method 8270, SOP HW-22 Revision 4. Reviewed 2009. Albany, New York.
- USEPA. 2006c. USEPA Region II Data Validation SOP of Organochlorine Pesticides by Gas Chromatography SW-846 Method 8081B. HW-44 Revision 1. Reviewed 2009. Albany, New York.

- USEPA. 2008a. USEPA Region II Validating Volatile Organic Compounds by SW-846 Method 8260B, SOP HW-24 Revision 2. Reviewed 2009. Albany, New York.
- USEPA. 2008b. USEPA Region II Validating Chlorinated Herbicides by GC. SOP HW-17 Revision 3, Reviewed 2009. Albany, New York.
- USEPA. 2008c. USEPA Region II Standard Operating Procedure for EPA Method 1668, Revision A, August 2003, "Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by HRGC/HRMS" and Statement of Work for Analysis of Chlorinated Biphenyl (CB) Congeners, CBC01.0, May 2005, SOP HW-46, Revision 1, Albany, New York.
- USEPA. 2010. USEPA Region II Data Validation SOP For SW-846 Method 8290 Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs)By High Resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS), HW-19, Revision 1.1. Albany, New York.

The data validation process performed on the data, based on method criteria, USEPA validation guidance, and professional judgment is included in the Data Validation Report (DVR; O'Brien & Gere, 2014). Overall, greater than 95 percent of the data were usable for quantitative and quantitative purposes. Subsequent to validation, the data was uploaded to the Locus Technologies EIM™ EDMS as discussed above.

4. STUDY AREA PHYSICAL CHARACTERISTICS

This section provides discussion of the properties and extent of the geologic materials underlying Wastebeds 9-15, and describes the following:

- Hydrogeologic conditions under and immediately surrounding Wastebeds 9-15
- Thickness and geologic properties of the overburden formation
- Direction and rate of groundwater flow of the overburden and bedrock groundwater flow systems
- Water quality characteristics of the overburden and bedrock groundwater flow systems

The summary of geologic and hydrogeologic conditions is based on data collected during the Closure Investigation and previous investigations conducted at Wastebeds 9-15. A list of previous investigations is provided as **Appendix A**.

4.1. LOCATION

Wastebeds 9-15 are located in Camillus and Geddes, Onondaga County, New York (**Figure 1**). Wastebeds 9-15 cover approximately 662 acres (**Figure 2**). A detailed discussion of the wastebeds is presented in Section 2.1.

4.2. SITE TOPOGRAPHY AND DRAINAGE

A topographic contour map is included as **Figure 3**. In general, the Site consists of three topographically raised areas (Wastebeds 9/10, Wastebed 11, and Wastebeds 12-15). These wastebeds are approximately 60 feet above the adjacent areas of the Site to the north, east, and west. To the south of the Wastebeds 12-15 and the north of Wastebeds 9-11, the land elevation begins to rise as bedrock becomes shallower. In these areas, surface water flow is from the valley walls towards the wastebeds.

Drainage patterns and surface water bodies are presented on **Figure 19**. Surface drainage from the upgradient areas to the south generally flow towards Wastebed 15. Surface drainage on the wastebeds flows towards the weir boxes on-site or form ponded areas within areas of low topography that either infiltrate into the existing substrate or evaporate. Surface water runoff from the Wastebed 12-15 berms enters a perimeter drainage swale discharging to one of three outfalls (Outfall 017, 018, or 019).

Surface water drainage at Wastebeds 9-11 is similar to Wastebeds 9-15. On the southern and northern sides of Wastebeds 9/10, surface water runoff is collected by collection trenches. Surface runoff on the western side of Wastebeds 9/10 and eastern side of Wastebed 11 currently flows over the existing access roads and enters the Interbed Area. Surface runoff on the northern side of Wastebed 11 enters a low lying area that eventually flows to the Interbed Area. The western side surface runoff flows to a low lying wooded area adjacent to the Wastebed 11. The southern runoff from Wastebed 11 currently flows over the access road towards NMC. The overall surface water flow within the valley is towards NMC which flows from the south west to the south east following the axis of the of the valley and discharges into Onondaga Lake.

4.3. CLIMATE

Onondaga County has a humid, continental climate. Annual precipitation averages about 38 inches with 124 inches of snowfall. The mean annual temperature is 48°F, with a mean July temperature of 71°F and a mean January temperature of 24°F. Record temperatures range from 102°F in July to -26°F in January and February. The frost-free season lasts from 150 to 180 days per year (National Oceanic and Atmospheric Administration [NOAA], 2007). The National Weather Service Station at Hancock International Airport in Syracuse, New York collects weather data for the area.

4.4. REGIONAL GEOLOGIC SETTING

The NMC Valley is a glacially-scoured bedrock channel. The regional surficial geology is presented on **Figure 20**, and the regional bedrock geology figure is presented on **Figure 21**. As the glaciers advanced they scoured a trough into the bedrock. The NMC Valley trough is oriented southwest to northeast and bedrock surface dips

along the center axis of the trough downward to the northeast. The axis of the trough appears to run under Wastebeds 9-15. The bedrock surface rises to the east under Wastebed 15 and to the west immediately adjacent to Wastebed 11 forming the valley walls. The elevation of the top of bedrock is variable with a reported low elevation of 252 ft above mean sea level (AMSL) at SB915-MW-111BR and a high elevation of 450 ft AMSL at SB915-MW-105BR (**Attachment 5;** BB&L, 1989).

The Vernon Formation is the first encountered bedrock formation. This formation is composed of thick-bedded red and green mudstone, argillaceous dolostone, gypsum, and green shale (Kappel and Miller, 2005). Following the retreat of the glaciers, till and glaciofluvial and glaciolacustrine deposits filled the trough. In general, the geology of NMC Valley consists of over 100 ft of glaciofluvial and glaciolacustrine deposits overlying till and bedrock. The energy of the meltwater flow decreased as it flowed to the northwest down the NMC Valley to Glacial Lake Iroquois. As a result, the deposits transition from coarser grained, permeable sediments in the southwest to finer grained less permeable sediments to the northeast near the present-day edge of Onondaga Lake (Kappel and Miller, 2005). In general, four basic geological units make up native materials in the NMC Valley:

1) Bedrock
2) Till
3) A poorly sorted, mixed glaciofluvial unit consisting of a variety of fluvial sediments in varying grain sizes referred to as the mixed NMC deposits
4) A prograding, glaciolacustrine sequence of deposits (silt and clay)

4.5. SITE GEOLOGIC SETTING

Geologic information from the Closure Investigation monitoring wells was used in conjunction with historic boring and well geologic information. The sampling well locations used to evaluate the geology of the Site and surrounding areas are shown on **Figure 13**. Wastebeds 9-15 comprised Solvay waste that was deposited in constructed settling basins. Solvay waste is an anthropogenic material resulting from the production of soda ash and consists primarily of calcium carbonate. The thickness of the Solvay waste in the settling basins is up to 70 ft in Wastebeds 9-11 and up to 90 ft thick in Wastebeds 12-15. Wastebeds 9-15 overlie the native overburden materials that make up the NMC Valley. Wastebeds 9-12, 14, and 15 have been constructed on the original ground surface. Wastebed 13 extends to an approximate depth of 35 feet below the original land surface and overlies a former sand and gravel quarry (**Figure 22**).

The locations of cross-sections through the Site are presented on **Figure 23.** The cross-sections display the thickness of the glacial valley deposits and the elevation of the bedrock surface found beneath the Site. Cross-sections A-A' (**Figure 24**) illustrates an axial representation of the NMC Valley from the southwestern edge to the northeastern edge of Wastebeds 9-15. Cross sections B-B' through G-G' illustrates multiple cross valley representations (**Figures 25 to 30**).

A glaciolacustrine/fluvial sequence of fine grained deposits (silt and clay) is present along the southern and northern edges of the bedrock channel, as well as in the northeastern extent of the channel under Wastebeds 9/10. Generally, these deposits are composed of silt and varying amounts of fine grained sand and clay. The glaciolacustrine/fluvial deposits range from 2 to 35 feet in thickness where present.

Where the glaciolacustrine/fluvial sequence of deposits are present, there is a gradual transition to the underlying mixed NMC deposits. The mixed NMC deposits are composed of a poorly sorted, glaciofluvial deposit consisting of silt, sand, gravel, and cobbles of varying sizes. The glaciofluvial sequence varies in thickness and composition horizontally and vertically as is expected of such deposits. The observed thickness of the mixed NMC deposits ranges from 119 feet north of Wastebed 12 (SB915-MW-93BR) to 14 feet near the southern edge of Wastebed 13 (SB915-SB-63). The differences in thicknesses of the mixed NMC deposits are attributed to a combination of the change in relief of the bedrock valley walls and the excavation of material within the former sand and gravel quarry.

Immediately underlying the mixed NMC deposits is till. The top of till elevation is presented on **Figure 31**. The till unit within NMC Valley and underlying Wastebeds 9-15 consists of dense, red, sandy silt with variable amounts of gravel and clay. The thickness of the till is variable throughout the valley from a maximum thickness of approximately 61 feet at SB915-MW-92 to 1.5 feet at SB915-MW-118BR, with an average thickness of 19 feet (**Figures 24 to 30; Figure 32**). The variations in the elevation of the till surface approximately mirror that of the underlying bedrock surface (**Figure 31**).

Immediately below the till unit is bedrock. Due to the highly weathered nature of the upper portion of the bedrock, the transition from till to bedrock appears gradual in places. The bedrock consists of highly weathered and fractured, thinly laminated, fissile, red and green mudstone, argillaceous dolostone, gypsum, and green shale (the Vernon Formation), with remineralization of calcite/gypsum within some of the fractures. **Figure 33** depicts the top of bedrock surface for the Wastebeds 9-15 portion of the NMC Valley.

4.6. REGIONAL HYDROGEOLOGY AND HYDROLOGY

4.6.1. Surface Water

NMC is the dominant surface water body in the NMC Valley and flows from the southwest to northeast through the valley and discharges to Onondaga Lake. The creek was re-routed to the area between Wastebeds 9-11 and Wastebeds 12-15 in 1944 (BB&L, 1989). The average annual flow in the creek is 177 cubic feet per second (cfs) based on USGS data from 1971 to 2010. Geddes Brook, which is situated east of Wastebeds 12-15, enters NMC from the south, and Beaver Meadow Brook enters NMC from the west upstream from Wastebeds 9-11. There is one USGS stream gauging station along NMC in the vicinity of the wastebeds and three additional stream gauges installed during the Closure Investigation detailed in Section 3.1.9. The location and Internet address for the USGS stream gauge is:

- Lakeland - http://waterdata.usgs.gov/ny/nwis/dv/?site_no=04240300&PARAmeter_cd=00065

4.6.2. Groundwater

The regional groundwater flow of the NMC Valley is from the southwest to the northeast towards Onondaga Lake, mimicking the regional topography. Groundwater flow in the NMC Valley occurs in the bedrock and overburden formations. Localized flow within the shallow fill unit is radial and a function of the elevational high created by the wastebeds. Recharge from the wastebeds to the native formations is limited by the LCCS and the low hydraulic conductivity of the Solvay waste. In the NMC Valley between Wastebeds 9-11 and Wastebeds 12-15, a portion of overburden groundwater discharges to NMC (BB&L, 1989).

4.7. HYDRAULIC CONDUCTIVITY ESTIMATES

As discussed in Section 3.6, *in situ* hydraulic conductivity tests (slug tests) were performed on all newly installed and selected historic monitoring wells used during the investigation. In addition, historical data was used to refine the estimated hydraulic conductivity ranges presented in Table 4-1 below. Table 4-1 presents the geologic unit, hydrogeologic zone, range of hydraulic conductivity values, and the geometric mean of the hydraulic conductivity for the hydrogeologic zones. **Table 3** summarizes the hydraulic conductivity of the wells associated with the Closure Investigation.

Table 4-1 Summary of Estimated Hydraulic Conductivity

Geologic Unit	Zone	Elevation Range of Screened Zone (ft AMSL)	Estimated Hydraulic Conductivity Range (cm/sec)	Estimated Hydraulic Conductivity Range (ft/day)	Geometric Mean (cm/sec)	Geometric Mean (ft/day)
Solvay Waste	Shallow Fill	364.9-445.6	1.92E-06 – 5.56E-03	0.005 – 15.76	1.03E-04	0.29
Glaciolacustrine Deposits (Silt,	Shallow Native	355.8-386.6	1.64E-05 – 7.69E-04	0.046 – 2.18	1.12E-04	0.32

Table 4-1 Summary of Estimated Hydraulic Conductivity

Geologic Unit	Zone	Elevation Range of Screened Zone (ft AMSL)	Estimated Hydraulic Conductivity Range (cm/sec)	Estimated Hydraulic Conductivity Range (ft/day)	Geometric Mean (cm/sec)	Geometric Mean (ft/day)
Clay, Fine Sand)						
Mixed Ninemile (Gravel and Sand)	Shallow Native	363.5-459.4	8.08E-06 – 3.27E-01	0.023 – 927.0	1.63E-03	4.61
Mixed Ninemile (Gravel and Sand)	Intermediate	335.6-378.5	9.74E-06 – 3.15E-02	0.028 – 89.4	5.54E-04	1.57
Mixed Ninemile (Gravel and Sand)	Deep	265.3-346.3	1.90E-05 – 2.78E-01	0.054 – 788.1	2.30E-03	6.52
Till	Till	296.8-301.8	2.60E-04(1)	0.737(1)	NA	NA
Bedrock	Bedrock	229.0-432.3	1.23E-07 – 2.03E-02	3.49E-04 – 57.7	5.01E-05	0.14

Notes:
1 – Data from BB&L 1989 Hydrogeological Assessment of the Allied Waste Beds in the Syracuse Area

4.7.1. Shallow Fill Zone

Slug tests were performed on the 13 of the 15 wells installed in the Solvay waste. The hydraulic conductivity values for the shallow fill zone ranged from 1.92E-06 to 5.56E-03 cm/sec (0.005 to 15.76 ft/day) with a geometric mean value of 1.03E-04 cm/sec (0.29 ft/day). Historic estimates of the hydraulic conductivity of the Solvay waste ranged from 1E-04 cm/sec to 4E-04 cm/sec (0.3 to 1 ft/day) (BB&L, 1989). The values collected during the Closure Investigation are most likely a function of the variable permeability within the wastebeds. The hydraulic conductivity values of the Solvay waste are low compared to the surrounding overburden material and limit the leachate migration from the beds into the native formation.

4.7.2. Native Overburden

Slug tests were performed on the 86 monitoring wells installed in the overburden unit. The overburden immediately adjacent to and under Wastebeds 9-15 was segregated into two distinct subunits: the glaciolacustrine deposits consisting of silt and varying amounts of fine grained sand and clay, and the mixed NMC deposits consisting of varying amount of gravel, sand, and silt. The hydraulic conductivities of these two subunits are very distinct and the effect on groundwater migration is also expected to be very distinct.

4.7.3. Glaciolacustrine Deposits

The glaciolacustrine deposits consist of silt and varying amounts of fine grained sand and clay. The deposits are discontinuous under and immediately adjacent to Wastebeds 9-15 due to the removal of material within the extent of the former sand and gravel quarry under Wastebed 13 and the presence of NMC within the valley, which has eroded the unit (**Figure 22**). Hydraulic conductivity values for the glaciolacustrine deposits ranged from 1.64E-05 to 7.69E-04 cm/sec (0.046 to 2.18 ft/day) with a geometric mean value of 1.12E-04 cm/sec (0.32 ft/day). Historic data estimated the hydraulic conductivity of the glaciolacustrine deposits at 4E-03 to 1E-03 cm/sec (12 to 3 ft/day) (O'Brien & Gere, 2009). The values observed during the Closure Investigation are

considerably lower than the historic values and are a function of the varying amounts of silt, fine grained sand, and clay observed in the deposits across the valley.

4.7.4. Mixed Ninemile Creek Deposits

The mixed NMC deposits consist of varying amounts of sand, gravel, silt, and cobbles. Hydraulic conductivity values for the shallow native unit consisting of the mixed NMC deposit ranged from 8.08E-06 to 3.27E-01 cm/sec (0.023 to 927.0 ft/day) with a geometric mean value of 1.63E-03 cm/sec (4.61 ft/day). The range in value for this unit may be related to the installation method for SB915-WB-02U and SB915-WB-04U; these locations were likely installed using air rotary, since this method was used for SB915-WB-02L and SB915-WB-04L, and air rotary can alter the surrounding formation by the outward radial force of the air and cause significantly higher hydraulic conductivity values.

Hydraulic conductivity values for the intermediate native unit consisting of the mixed NMC deposit ranged from 9.74E-06 to 3.15E-02 cm/sec (0.028 to 89.4 ft/day) with a geometric mean value of 5.54E-04 cm/sec (1.57 ft/day). Hydraulic conductivity values for the deep native unit consisting of the mixed NMC deposit ranged from 1.90E-05 to 2.78E-01 cm/sec (0.054 to 788.1 ft/day) with a geometric mean value of 2.30E-03 cm/sec (6.52 ft/day). Historical estimates of the hydraulic conductivity of the mixed NMC deposit ranged from 2E-04 to 9E-03 cm/sec (0.5 to 24 ft/day) (O'Brien & Gere, 2009). The values observed during the Closure Investigation differ from the historic values and are a function of the varying amounts of gravel, sand, and silt, observed in the deposits across the valley.

4.7.5. Till

No additional hydraulic conductivity data were collected for the till unit. Historic estimates of the hydraulic conductivity for the till unit were 2.6E-04 cm/sec (0.7 ft/day) (BB&L, 1989).

4.7.6. Bedrock

Slug tests were performed on 16 of the 17 wells installed in the bedrock formation. Hydraulic conductivity values for the bedrock formation ranged from 1.23-07 to 2.03-02 cm/sec (3.49E-04 to 57.7 ft/day) with a geometric mean value of 5.01E-05 cm/sec (0.14 ft/day).

4.8. SITE HYDROGEOLOGY AND HYDROLOGY

4.8.1. Surface Water

Runoff from the perimeter berms of Wastebeds 12-15 is collected in the drainage swale at the toe of the wastebed and discharges to NMC or a former gravel pit on the northwest side of Wastebed 13**.** Outfall 18 discharges upstream of the railroad bridge crossing NMC. NMC is approximately 50 feet from Wastebeds 9-11 at the closest point and up to 1,500 feet from Wastebed 12 at the furthest point. Precipitation on the interior of the wastebeds that is not lost through ET either infiltrates into the wastebed, or is collected in the weir boxes and conveyed through buried overflow pipes to the LCCS at the toe of the wastebeds (**Figure 2**).

4.8.2. Groundwater

This section describes groundwater flow within various geologic deposits. Quarterly groundwater elevations for a period of one year (April 2012 to January 2013) are presented in **Table 2**. **Figures 34 to 53** depict the quarterly groundwater elevations from April 2012 through January 2013 for Solvay waste (shallow fill), shallow native, intermediate native, deep native, and bedrock units. Two hydrogeologic units, the glaciolacustrine and till units, were not contoured as they act as confining units and limit groundwater flow.

In general, the Site hydrogeology can be divided into seven units:

- Solvay waste/Shallow fill unit
- Glaciolacustrine unit
- Mixed NMC unit
  - » Shallow native unit, consisting of upper portion of mixed NMC deposits

  - » Intermediate native unit, consisting of center portion of mixed NMC deposits
  - » Deep native unit, consisting of lower portion of mixed NMC deposits
- Till unit
- Bedrock unit

The following summary of groundwater conditions is based on data collected during the Closure Investigation conducted at Wastebeds 9-15, as well as interpretation of data collected during prior investigations.

4.8.2.1. Solvay Waste/Shallow Fill Unit

Solvay waste/shallow fill groundwater occurs within the Solvay waste in the wastebeds. Sixteen existing monitoring wells that are screened within the Solvay waste on Wastebeds 9-15 were monitored through the four quarters. The groundwater elevations on Wastebed 11 ranged from 408.42 ft AMSL on April 19, 2012 to 386.63 ft AMSL on October 22, 2012 in SB915-MW-53I. The groundwater elevations on Wastebeds 9/10 ranged from 401.29 ft AMSL on April 19, 2012 in SB915-MW-43S to 386.24 ft AMSL on October 24, 2012 in SB915-MW-42I. The groundwater elevations in Wastebeds 12-15 ranged from 447.97 ft AMSL on January 2013 to 436.43 on July 9, 2012 in SB915-MW-36S (**Table 2**). **Figures 34 to 37** present the groundwater elevations for the shallow fill unit for the four quarters of elevation measurements. Groundwater within the shallow fill unit is recharged by precipitation. The hydraulic potential of the wastebeds is radially outward (north, south, east and west) and downward from the mounded wastebeds, mimicking the sharp change in Site topography.

This potential is limited on Wastebeds 12-15 due to the rise in the bedrock and native surface to the south under the wastebeds. The presence of the weir boxes within the wastebeds creates a preferential flow towards the weir boxes. As discussed in detail in Section 2.1.2, the weir boxes are connected into the LCCS which collects a portion of the groundwater from within the wastebeds. Additionally, the potential for vertical flow through the wastebeds into the shallow native groundwater unit is limited by the low hydraulic conductivity of the Solvay waste and, where present, the glaciolacustrine/fluvial deposits. Horizontal groundwater flow through the Solvay waste is considered limited due to the low permeability of the material. As discussed in Section 2.1.3, a portion of shallow fill groundwater on Wastebeds 12-15 is collected in historic weir boxes that also collect wastebed surface runoff, which discharges to the LCCS. Water from the weir boxes is conveyed through buried overflow pipes to the LCCS (**Figure 2**).

A portion of Solvay waste/shallow fill groundwater on Wastebeds 9/10 is collected in the Phase 4 Seep Mitigation collection system installed along the southern perimeter of Wastebeds 9/10 (**Figure 2**), as described in Section 2.1.2. A portion of the Wastebed 9/10 shallow fill groundwater is collected by the leachate collection system along the northern perimeter of these wastebeds. A portion of the Wastebed 11 Solvay waste/shallow fill groundwater is collected in the Phase 5 Seep Mitigation collection system installed along the southern perimeter of Wastebed 11 (**Figure 2**), as described in Section 2.1.2. A portion of the Solvay waste/shallow fill groundwater from Wastebeds 9-11 flows into the Interbed Area. Portions of Solvay waste/shallow fill groundwater at Wastebed 11 also enter the wetland area to the north of the wastebed and some portion likely flows towards NMC.

4.8.2.2. Glaciolacustrine Unit

The glaciolacustrine deposits are discontinuous beneath Wastebeds 9-15 and, where present, act as a local semi-confining unit due to their low hydraulic conductivity. Six monitoring wells were installed within this unit, SB915- MW-104S, SB915-MW-106S, SB915-MW-110S, SB915-MW-116S, SB915-MW-117S, and SB915-MW-118S (**Figure 13**). The groundwater elevations within the glaciolacustrine deposits ranged from 369.96 ft AMSL at SB915-MW-116S in July 2012 to 395.05 ft AMSL at SB915-MW-104S in April 2012 (**Table 2**).

The glaciolacustrine unit is present along the south and eastern edge of Wastebed 14, to the east of Wastebed 12, underneath the Interbed Area between Wastebeds 9-11, and to the north edge of Wastebeds 9/10 and 11 (**Figure 34 to 37**). The presence of this unit directly beneath and surrounding the wastebeds acts as a confining unit limiting vertical migration of shallow fill groundwater into the underlying shallow native (mixed NMC deposits).

4.8.2.3. Shallow Native Unit

The shallow native unit consists of groundwater within the native materials and, as such, does not include a discussion of the groundwater within the shallow fill unit (Solvay waste). The shallow native groundwater occurs within the upper portion of the mixed NMC deposits and includes the water table below and outside the horizontal and vertical extent of the wastebeds. Fifty-five monitoring wells that are screened within the shallow native unit on Wastebeds 9-15 were monitored through the four quarters. The groundwater elevations within the shallow native unit ranged from 364.68 ft AMSL at SB915-WB-09U in October 2012 to 449.77 ft AMSL at SB915-MW-105S in October 2012. Groundwater within the shallow native unit is recharged by precipitation infiltrating through the overburden material and, to a limited extent, shallow fill groundwater discharging from the wastebed. The shallow fill groundwater discharging from the wastebeds has a higher density due to the elevated concentrations of dissolved ions, and creates a variability in densities when mixing with the shallow native groundwater. Shallow native groundwater flow is consistently towards NMC and, in general, migrates from the valley walls to the center of the valley and towards Onondaga Lake following the regional flow of the NMC Valley. Due to the variable groundwater densities within the shallow native unit, horizontal hydraulic gradients were calculated using the EFH.

Horizontal hydraulic gradients were calculated using the data from the October 2012 water level measurements and EFH calculations. The horizontal hydraulic gradient of the shallow native unit for the entire Site is 0.006 ft/ft. **Figures 38 to 41** present groundwater elevation contours generated from groundwater levels collected through four quarters of elevations measurements from April 2012 to January 2013. Seasonally, the groundwater elevations fluctuated approximately 2.8 ft based on data from monitoring wells screened in the shallow unit (**Table 2**).

As mentioned above in Section 4.5, the remnants of a former sand and gravel quarry are present beneath Wastebed 13. These coarse and permeable materials act as a conduit for the groundwater flow from the shallow fill into the shallow native unit. Shallow native groundwater discharges to NMC, a surface water depression near a former gravel pit, the Interbed Area between Wastebeds 9-11, and other ponded surface water areas (**Figure 2**).

4.8.2.4. Intermediate Native Unit

The intermediate native groundwater occurs between the shallow native and deep native units. Fourteen monitoring wells that are screened within the intermediate native unit on Wastebeds 9-15 were monitored for the four quarters. The groundwater elevations within the intermediate unit ranged from 367.93 ft AMSL at SB915-WB-05M in October 2012 to 375.28 ft AMSL at SB915-MW-104I in April 2012 (**Table 1**). Groundwater within the intermediate unit is recharged by flow from the shallow unit and from the deep unit. Intermediate native groundwater flow is consistently towards the northeast and in general migrates towards Onondaga Lake following the regional flow of NMC Valley. Due to the variable groundwater densities within the intermediate unit, horizontal hydraulic gradients were calculated using the EFH.

Horizontal hydraulic gradients were calculated using the data from the October 2012 water level measurements and EFH calculations. The horizontal hydraulic gradient of the intermediate native unit for the entire Site is 0.002 ft/ft. **Figures 42 to 45** present groundwater elevation contours generated from groundwater levels collected through four quarters of elevations measurements from April 2012 to January 2013.

The intermediate native groundwater unit is in good hydraulic connection with the shallow native groundwater and deep native groundwater. This is due to these units being part of the permeable mixed NMC deposits that were deposited within the NMC Valley.

4.8.2.5. Deep Native Unit

The deep native groundwater unit occurs in the deeper unconsolidated materials and is in direct connection with the intermediate groundwater. Twenty-four monitoring wells that are screened within the deep native unit on Wastebeds 9-15 were monitored for the four quarters. The groundwater elevations within the deep native unit ranged from 363.70 ft AMSL at SB915-MW-85D in October 2012 to 378.41 ft AMSL at SB915-WB-01L in April 2012. Groundwater within the deep unit is predominantly recharged by groundwater within the valley

flowing towards the lake and a small component of intermediate groundwater. Deep native groundwater flow is toward the northeast following the regional flow of the NMC Valley. Due the variable groundwater densities within the deep native unit, horizontal hydraulic gradients were calculated using the EFH. As described above in Section 3.7.1, measured groundwater elevations were corrected for the density of the water within the monitoring well screen. Groundwater flow within the deep is slow and in general migrates towards Onondaga Lake following the regional flow of NMC Valley (**Figures 46 through 49**).

Horizontal hydraulic gradients were calculated using the data from the October 2012 water level measurements and EFH calculations. The horizontal hydraulic gradient of the deep native unit for the entire Site is 0.0008 ft/ft. The average groundwater elevations ranged from 372.39 ft AMSL in August 2011 to 376.53 ft AMSL in March 2012 for monitoring wells SB915-MW-88D, SB915-MW-89D, SB915-MW-91D, SB915-MW-92D, SB915-WB-02L, and SB915-WB-04L, which were installed for all of the groundwater elevation monitoring events.

The deep native groundwater unit is in hydraulic connection with the intermediate native groundwater. This is due to both units being part of the permeable mixed NMC deposits.

4.8.2.6. Till Unit

The till unit consists of varying amounts of silt, clay, sand, and gravel in a dense compacted layer above the bedrock unit. Because of the low permeability, this unit is not considered a zone of significant groundwater flow. Therefore, no monitoring wells have been installed in this unit on the Site per the CIWP (O'Brien & Gere, 2011a). In general, the till acts as a confining layer between the deep native groundwater unit and the bedrock groundwater unit.

4.8.2.7. Bedrock Unit

Groundwater occurring in the bedrock is separated from the deep native groundwater by the till unit. Seventeen monitoring wells that are screened within the bedrock unit on Wastebeds 9-15 were monitored through the four quarters. The groundwater elevations within the bedrock unit ranged from 359.38 ft AMSL at SB915-MW-107BR in October 2012 to 427.11 ft AMSL at SB915-MW-114BR in January 2013. Groundwater within the bedrock unit is recharged by precipitation falling on the sides of the valley and infiltrating into the bedrock unit where the till unit is absent. However, due to the low hydraulic conductivity of the bedrock, groundwater recharge along the valley wall is expected to be limited. Groundwater interaction with the overburden is limited by the low permeability till separating the two units. Due to the variable groundwater densities within the bedrock unit, groundwater elevations were calculated using the EFH.

Horizontal hydraulic gradients were calculated using the data from the October 2012 water level measurements and EFH calculations. The horizontal hydraulic gradient of the bedrock unit for the entire Site is 0.018 ft/ft. **Figures 50 through 53** show the groundwater elevations for the bedrock wells across the Site for the four quarters from which data were collected. Bedrock groundwater flow likely occurs through bedding planes and secondary fractures. Due to the low hydraulic conductivity, groundwater flow within the bedrock is slow and in general migrates towards Onondaga Lake following the regional flow of NMC Valley (**Figures 50 through 53**).

4.9. GROUNDWATER GEOCHEMISTRY

Geochemical data collected during the Closure Investigation were used to plot geochemical signatures on Stiff diagrams. Based on the diagrams, the patterns illustrate the groundwater types observed at the Wastebeds 9- 15 Site. These groundwater water types are summarized below:

1. Leachate from the wastebeds
2. Native overburden/fresh groundwater
3. A mixture of native overburden/fresh groundwater and leachate
4. Native halite brine
5. Native halite brine and leachate mix

Stiff diagrams comparing major anion and cation (magnesium, calcium, sodium, potassium, sulfate, bicarbonate, carbonate, and chloride) concentrations from the July 2012 (second quarter) sampling event are presented in **Appendix J (Figures J-1 through J-19)**. Each of these patterns is displayed on the figures, and each pattern has

been color coded to better illustrate similar water types. The second quarter sampling event was used as it is the most complete set of data following the first quarter sampling event. The distribution of the different groundwater types distinguished by the Stiff diagrams is depicted with the same color coding on **Figures 54 through 58**. The data used to create the Stiff diagrams include the key geochemical parameters of sodium, calcium, magnesium, potassium, chloride, carbonate alkalinity, sulfate, pH, total dissolved solids (TDS), and water type, and several of these parameters are presented on **Table 6**. In addition to the stiff diagrams, a summary of key groundwater geochemistry classification values is included in **Table J-1** in **Appendix J** that was used in conjunction with the Stiff diagrams to identify the groundwater types discussed below.

4.9.1. Leachate

A typical leachate signature for the Site is depicted by the Stiff diagrams and ordered by unit on **Figures J-1 through J-4** (Solvay waste and shallow native, intermediate native, and deep native). The pattern displayed in these figures compares milliequivalent (meq) concentrations of sodium plus potassium, calcium, magnesium, chloride, carbonate plus bicarbonate, and sulfate. The most notable comparison in the leachate type water is between chloride, calcium, and sodium. Leachate characteristically displays approximately twice as much calcium milliequivalents compared to sodium and typically double the chloride concentration compared to calcium. These ratios can vary slightly depending on the geochemical conditions, but overall, the pattern of the Stiff diagram is distinct. Calcium, sodium, and chloride are the major ions in solution, and concentrations of potassium, magnesium, sulfate, and carbonate/bicarbonate are minor in comparison.

The high dissolved concentrations of calcium, chloride, and sodium are representative of the Solvay process where sodium was removed from native sodium chloride (NaCl) brine, calcium replaced the sodium, and chloride remained in solution until disposal in the wastebeds. In addition, the pH of leachate is generally high (usually above 10 and sometimes above 12) due to the use of lime calcium oxide (CaO) during the Solvay process. TDS and chloride concentrations are usually above 30,000 mg/L and above 20,000 mg/L, respectively. The distribution of the leachate is depicted with yellow dots on **Figures 54 through 57**. A summary of the geochemical conditions within the wastebed monitoring wells is presented above in **Table 6**.

4.9.2. Native Overburden/Fresh

The Site native overburden/fresh groundwater type typically has low concentrations of TDS and other constituents compared to leachate and native bedrock groundwater. In addition, the pH of native overburden groundwater is between 6 and 9. A typical native overburden/fresh groundwater signature for the Site is depicted on the Stiff diagrams presented on **Figures J-6 through J-9** (Solvay waste and shallow native, intermediate native, deep native, and bedrock). Native overburden materials are often composed primarily of calcium, magnesium, and carbonate minerals due to the limestone, shale, and dolomitic source rocks. While chloride bearing minerals are not often present in overburden material, concentrations of chloride and sodium can be found in the overburden groundwater due to the application of rock salt (NaCl) to roads. The typical Stiff diagram shape for carbonate overburden groundwater is either boxy or arrowhead in appearance. With respect to the native overburden/fresh water Stiff diagrams at the Site, the wells with native overburden/fresh groundwater signatures are generally located hydraulically upgradient of the beds and likely receive flushing of native overburden/fresh groundwater. The distribution of native overburden/fresh water types are indicated in orange on **Figures 54 through 58**. A summary of the geochemical conditions within the shallow native overburden formation is presented in **Table 6**.

4.9.3. Mix of Native Overburden and Leachate

A typical signature for a mix of leachate and native overburden for the Site is depicted by the Stiff diagrams on **Figures J-10 through J-16** (Solvay waste and shallow native, intermediate native, deep native, and bedrock). The diagrams display a similar pattern in terms of milliequivalent relationships compared with the leachate Stiff diagrams. However, the concentrations are lower than leachate due to dilution from native overburden groundwater. The dilution is most notable with respect to calcium and chloride, and sodium. Mixed overburden and leachate also has overall lower concentrations of TDS compared to leachate, and significantly lower pH compared to leachate. The distributions of mixed native overburden/fresh groundwater and leachate signatures for the Site are depicted as green dots on **Figure 55 through 57**. No dilute or mixed leachate is found within the wastebed wells (**Figure 54**).

4.9.4. Native Halite Brine

A typical native halite brine signature for the Site is depicted by the Stiff diagrams on **Figure J-17**. The characteristic look of halite brine displays equal sodium milliequivalents compared to chloride and typically the relative concentrations of all the other major cations and anions are significantly lower. Brines produced by the dissolution of halite consist almost entirely of sodium and chloride and have low concentrations of calcium (Kappel and Miller, 2005). As a result, the Stiff diagram visually displays a very characteristic "T" pattern. Furthermore, halite brines are distinguished from leachate by the significantly lower calcium concentrations compared with higher concentrations of sodium and a pH generally in the neutral range (6 to 8 S.U.).

Five bedrock wells (SB915-MW-14BR, SB915-MW-91BR, SB915-MW-107BR, SB915-WB-05R and SB915-WB-05R) have a native halite brine signatures (**Figure J-17**). Two other wells (SB915-MW-92BR and SB915-MW-115BR) display the characteristic "T" pattern indicating the presence of halite brine; however, these wells have significantly lower TDS and likely represent dilute halite brine signatures. The distribution of native halite brine water types in bedrock are indicated in orange on **Figure 58**. A summary of the geochemical conditions within the bedrock formation is presented in **Table 6**.

4.9.5. Mix of Native Leachate and Brine

A typical signature for a mix of leachate and native brine for the Site is depicted by the Stiff diagrams on **Figure J-18** (deep native). The diagrams display a similar pattern in terms of milliequivalent relationships compared with both the leachate Stiff diagrams and the halite brine diagrams. The concentrations of sodium are high due to the presence of the halite brine, dissolved calcium concentrations are also high due to the calcium rich leachate, and chloride is high due to both leachate and brine. The key characteristic that distinguishes the mixture of native halite brine and leachate from solely leachate is the higher milliequivalent concentration of sodium compared to calcium. The distributions of mixed native halite brine and leachate signatures for the Site are depicted as red dots on **Figure 57**. This water type is only found within the deep native unit.

4.9.6. Unknown Brine

Many of the bedrock wells display unknown signatures as depicted by the Stiff diagrams in **Figure J-19**. Three different types of these unknown Stiff characteristics were observed (Type 1, 2, and 3). While certain aspects of the Stiff diagram characteristics are similar to halite brine and leachate, these characteristics are also similar to native bedrock groundwater from the Onondaga Lake area (Yager, Kappel, and Plummer, 2007). Absent other diagnostic parameters (*i.e.*, isotopic boron and oxygen, *etc.*), it is not possible to determine the nature of these bedrock groundwaters. The distributions of these unknown bedrock water types are indicated as yellow, green, and purple diamonds on **Figure 58**. A summary of the geochemical conditions within the bedrock formation is presented in **Table 6**.

4.9.7. Distribution of Water Types by Unit

Solvay Waste Wells

The distribution of water types in the wells screening the Solvay waste is displayed on **Figure 54**. Nine wells are screened in the waste. Two wells (SB915-MW-42S and SB915-MW-53I) are on Wastebeds 9-11, and seven are located on Wastebeds 12-15 (SB915-PZ-07S, SB915-PZ-07I, SB915-PZ-07D, SB915-MW-91S, SB915-MW-92S, SB915-MW-36S, and SB915-MW-36I). As noted above the leachate type water (displayed as yellow dots) is the only water type found within the wastebeds. The leachate water type is the result of precipitation percolating through the calcium carbonate bearing waste and the presence of supernatant trapped within the pore space of the waste.

Shallow Native Wells

Forty-two shallow wells (**Table 2**) are screened that straddle the water table in the native overburden formation. Three water types are present in the shallow overburden unit, which are native overburden/fresh groundwater, leachate, and diluted leachate. The spatial distribution is displayed by blue, yellow, and green color dots, respectively (**Figure 55**). While most wells have some leachate impact, four wells appear to have overburden signatures (SB915-MW-94S, SB915-MW-87S, SB915-MW-96S, and SB915-MW-89S). These wells are

on the hydraulically upgradient side of the Site and likely receive flushing from dilute overburden groundwater. Furthermore, potential for leachate to impact these wells is likely reduced due to the LCCS capture of leachate. Aside from these four wells, the majority of the wells screening the shallow native overburden appear to be impacted by leachate to some degree. A majority of the wells which have been impacted by leachate also appear to have been diluted to some degree by native overburden/fresh groundwater and precipitation.

Intermediate Native Wells

Fifteen intermediate wells are screened between the bottom of the shallow wells and top of the deep wells in the native overburden formation (**Table 2**). Three water types are present in the intermediate native overburden unit, which are native overburden/fresh, leachate, and diluted leachate. The spatial distribution is displayed by blue, yellow, and green color dots, respectively (**Figure 56**). Similar to the shallow unit, most wells have some leachate impact, except for two updradient wells, which appear to have diluted native overburden/fresh signatures (SB915-WB-01U and SB915-MW-104S). These wells also likely receive flushing from dilute native overburden/fresh groundwater.

The other thirteen impacted wells screening the intermediate overburden unit display some leachate or leachate impact. Wells surrounding Wastebeds 12-15 are classified as a mix of native overburden and leachate due to the lower TDS and major cations and anions concentrations. This is likely the result of native overburden flushing through the coarser sand and gravel under Wastebeds 12-15. As discussed in Section 4.5, Wastebed 13 is situated on top of a former sand and gravel quarry.

Wells surrounding Wastebeds 9-11 present leachate signatures. These wells are screened in finer sediments, which have likely trapped the leachate and limit dilution due to flushing from precipitation and native overburden groundwater.

Deep Native Wells

Twenty deep wells are screened from the top of till up into the native overburden formation (**Table 2**). Four water types are present in the deep overburden unit. These are native overburden/fresh, leachate, diluted leachate, and native halite brine/leachate mix. The spatial distribution is displayed by blue, yellow, green, and purple color dots, respectively (**Figure 57**).

Generally, the overall patterns are similar to the intermediate unit. Deep wells below Wastebeds 12-15 display a general pattern of more diluted leachate impact with the exception of SB915-WB-03L and SB915-WB-02L. As discussed above these wells were likely diluted from the native overburden flushing though the coarse overburden material.

Monitoring wells SB915-WB-03L and SB915-WB-02L have leachate signatures that do not appear to be diluted with native overburden/fresh groundwater. These two wells are hydraulically upgradient of the former gravel pit, and they are older wells that were constructed in finer material compared to more recent well installations. They are also deeper compared to other deep well installations in the vicinity. The leachate is likely trapped in the finer materials just above the till unit. The finer sediments have likely limited the dilution due to flushing from native overburden/fresh groundwater.

Wells surrounding Wastebeds 9-11 present leachate signatures in with higher concentrations of TDS, calcium, and chloride compared to Wastebeds 12-15 wells. As discussed above, these wells are screened in finer sediments, which have likely trapped the leachate and limits dilution due to flushing from native overburden/fresh groundwater.

Two wells (SB915-MW-107D and SB915-WB05L) appear to have a leachate/halite brine mix with higher sodium concentrations and chloride concentrations. The chloride and sodium concentrations are higher than what is typically observed in leachate. Both of these wells also appear to be located in a topographic depression in the top of till. It is likely that dense leachate has migrated vertically from the wastebeds during filling operations and is co-mingling with previously trapped native brine.

Bedrock Wells

Sixteen bedrock wells are screened in the top of the bedrock (**Table 2**). Native halite brine, native overburden/fresh, and three unknown water types (Type 1, Type2, and Type3) are present in the bedrock unit. The spatial distribution is displayed by orange and blue dots and yellow, green, and purple color diamonds, respectively (**Figure 58**).

Two wells (SB915-MW-108BR and SB915-MW-105BR) located in the bedrock on the valley walls have native overburden/fresh signatures. The upgradient locations on the side of the bedrock valley of these two wells may be why the groundwater signature is native overburden/fresh at these locations.

Five wells have high chloride and high sodium concentrations. Monitoring wells SB915-MW-91BR, SB915-MW-107BR, SB915-WB-05R, SB915-WB-07R, and SB915-MW-14BR exhibit native halite brine signatures. As discussed above, native halite brine is related to the native halite brine under Onondaga Lake.

The other bedrock wells have unknown signatures. Three different signatures were observed (Type 1, 2, and 3), and the nature and source of these signatures have not been defined.

4.9.8. Discussion

Overall, the presence of a leachate signature in the overburden groundwater provides an indication of where historic migration of wastebed constituents has occurred. During the filling of the wastebeds, it is hypothesized leachate would have migrated into the formation at a higher rate and to a greater extent than is presently occurring. Ongoing leaching from the wastebeds could be expected to potentially follow similar migration pathways, while native overburden groundwater also flushes through the system in the upper portion of the overburden. It is expected that ongoing migration in the deep overburden formation is limited based on the distribution of leachate and diluted leachate in the deep overburden and the presence of a native halite brine, a till confining unit, and the finer glaciolacustrine deposit to the east of the Site.

A comparison of the TDS, calcium, sodium, and chloride concentrations observed in the leachate, diluted leachate, and native overburden groundwater around Wastebeds 9-11 and Wastebeds 12-15 was performed. Based on this, it appears that historic or present releases of leachate have impacted the native overburden groundwater in the shallow, intermediate, and deep monitoring wells. The inorganic chemistry, TDS concentrations, and Stiff diagrams show that the leachate in shallow and intermediate native wells near Wastebeds 12-15 is generally more dilute when compared to shallow and intermediate native wells at Wastebeds 9-11. This indicates that native groundwater is flushing through the overburden to a greater extent and diluting the leachate impact to the shallow and intermediate native overburden, as well as the deep native overburden. Leachate impact to the deep native groundwater in the eastern half of the Site appears limited due to the presence of the native halite brine in the deepest portions of the valley.

5. CLOSURE INVESTIGATION RESULTS AND NATURE AND EXTENT OF CONSTITUENTS

This section presents a discussion of the nature and extent of residuals at the Site based on data collected during four quarters of sampling. The nature and extent of residuals are presented on a sample media basis (groundwater, subsurface leachate, surface water, NMC sediment, and surface leachate).

5.1. NATURE AND EXTENT OF CONSTITUENTS

The Wastebeds 9-15 Site was classified as a "Class 3" site by the NYSDEC in June 2000 (NYSDEC, 2000). By definition, sites classified as Class 3 do not pose a significant threat to the environment or public health. Additionally, the USEPA has determined that no action under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 as amended (42 U.S.C. §9601, *et seq*.) is required, and that no Superfund action will be taken at the Site (USEPA, 2011). That determination included a finding that "the available data indicates that the levels of contaminants from the [w]astebeds that are adjacent to NMC are minimal."

The groundwater under and in the immediate vicinity of the Site and Onondaga Lake is classified as NYS Class GA fresh groundwater. Based on 6 NYCRR Part 701: Classifications – Surface Waters and Groundwaters, the best usage of Class GA waters is as a source of potable water supply. There are no users of groundwater in the vicinity of the Site as confirmed by the residential well survey presented in the EDR Report (**Attachment 4-1**), which identified no public or private drinking water wells within a 2-mile radius of the Site. Further, deep groundwater under and in the immediate vicinity of Onondaga Lake and Wastebeds 9-15 is naturally saline due to the presence of a naturally occurring halite brine. Class GA standards were utilized during the data evaluation for groundwater and subsurface leachate.

NMC is classified as a Class C surface water. Class C surface water standards were utilized during the data evaluation for NMC, Site surface water, and surface leachate.

A review of the Closure Investigation analytical data for the Site-related groundwater, subsurface leachate, and Site surface water yielded low concentrations of multiple organic constituents (*i.e.*, VOCs, semivolatile organic compounds [SVOCs], *etc.*) and inorganic constituents that are primarily related to the Solvay waste. The organic and inorganic constituents are most likely related to materials that were co-mingled with the Solvay waste slurry during the filling of the wastebeds and that has leached into the shallow fill and shallow native groundwater. The USEPA's 2011 decision stated that, "it is likely that these contaminants were released when the [wastebeds] were in operation." For PCBs and dioxins/furans, anthropogenic sources (*e.g.*, atmospheric deposition) during wastebed operation are the likely source to the groundwater and subsurface leachate, while current and historical anthropogenic sources are most likely for the Site-related surface waters.

For Site groundwater, leachate, and surface water, the data evaluation indicated that some organic constituents did exceed their Class GA/C standards or guidance values at concentrations. However, they were primarily located along the perimeter of Wastebed 13 or within the wastebeds themselves, which indicated a minimal occurrence of migration for the organic constituents beyond the wastebed perimeters. As discussed in Section 4.7.1, the Solvay waste limits the leachate migration to the shallow and intermediate native overburden groundwaters, and the detected organic constituents were predominantly present in groundwater monitoring wells with a leachate signature (Sections 4.9.1 and 4.9.3), and not in wells identified native overburden/fresh groundwater and native halite brine (Sections 4.9.2 and 4.9.4).

NMC surface water also had detected concentrations of organic and inorganic constituents. The Solvay waste-related inorganic constituents (*e.g.*, chloride, calcium, and sodium) were observed at elevated concentrations in the surface water as the creek flowed along Wastebeds 9-11; it is anticipated that the on-going Seep Mitigation efforts (proposed along Wastebed 11and recently completed along Wastebeds 9/10) will significantly decrease these values. The trace organics (*i.e.*, SVOCs, PCBs, dioxins/furans, *etc.*) detected in the surface waters are most likely related to upstream sources or anthropogenic sources (*e.g.*, atmospheric deposition), since NMC flows through both developed and agricultural areas prior to the wastebeds.

As discussed in the USEPA's *Determination To Not Take Superfund Action* (USEPA, 2011), the wastebeds are not a significant source of constituents (*e.g.*, VOCs, phenols, and mercury) to NMC surface water and sediments. This

conclusion is consistent with and supported by the analytical data collected during this investigation, and it applies to both NMC and the SAA.

The analytical data is summarized in the following sections (by constituent group) for the individual groundwater units, subsurface leachate, surface leachate, Site and NMC surface waters, and NMC sediments. Concentration plots associated with the sample media are included in **Appendix K**.

5.2. SITE CHARACTERIZATION OF ANALYTICAL RESULTS

5.2.1. Groundwater

Groundwater monitoring well samples were collected during the four quarters between May 2012 and March 2013. A sample summary table is presented as Table 3-4 (Section 3.1.10), and the analytical results are included as **Tables 7 to 16, Tables 17 to 26, Tables 27 to 29, and Tables 30 to 32** for Quarter 1, Quarter 2, Quarter 3, and Quarter 4, respectively. These results were compared against the applicable New York State Class GA Ambient Water Quality Standards and Guidance Values (NYSDEC, 1998).

The analytical results have been organized into five groups based on the hydrogeologic units presented in Section 4.8.2 (shallow groundwater – Solvay waste/shallow fill, shallow native groundwater, intermediate native groundwater, deep native groundwater, and bedrock groundwater). These data are presented for the entire Site without separating Wastebeds 12-15 and Wastebeds 9-11. **Table 2** presents the monitoring wells identified for each of these units. Figures in **Appendices K-1 through K-5** (listed as **Figure K-#.#** for reference to **Appendix K**) present the maximum concentrations observed for the following parameters by hydrogeologic unit and for the monitoring wells in each unit.

- 1,2-Dichlorobenzene, 1,4-dichlorobenzene, and chlorobenzene
- 1,2-Dichloroethane and cis-1,2-dichloroethene
- Acetone
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds)
- Mercury
- Chloride
- Total Alkalinity

5.2.1.1. Shallow Groundwater – Solvay Waste/Shallow Fill

Summary statistics are provided in **Table 33** for the groundwater parameters detected in Solvay waste/shallow fill groundwater for the samples collected during the four quarters. Chlorinated benzenes, BTEX compounds, acetone, and 2-butanone were the dominant VOCs detected in the Site Solvay waste/shallow fill groundwater. The highest concentrations, as well as the highest frequencies of detection, were observed for benzene, acetone, and chlorobenzene (**Tables 7, 17, 27, and 30**). **Figures K-1.1 through K-1.10** present the maximum concentrations observed for the targeted organic parameters presented in Section 5.1.1. The chlorinated benzenes, ethylbenzene, and total xylenes were detected in monitoring wells located on Wastebeds 12-15 (**Figures K-1.1 through K-1.3, K-1.8, and K-1.10**), while acetone, benzene, and toluene had a wider distribution throughout the Site (**Figures K-1.6, K-1.7, and K-1.9**). The organic compounds were observed at their maximum concentrations on Wastebeds 12-14, with the maximum concentration for benzene detected in SB915-PZ-07I.

For SVOCs, phenol, 2-methylphenol, 2,4-dichlorphenol, acetophenone, and 3&4-methylphenol were among the most detected parameters. Most parameters were observed in less than 33% of the samples and at concentrations less than 1 µg/L (**Tables 8 and 18**). The highest concentrations and exceedances of Class GA standards and guidance values were observed for phenol and 3&4-methylphenol (max. concentration = 110 µg/L and 62 µg/L in SB915-MW-53I, respectively) and were observed in monitoring wells on both Wastebeds 12-15 and Wastebeds 9-11

One herbicide (2,4-D) and two pesticides (hexachlorobenzene and beta-BHC) were detected in the Solvay waste/shallow fill groundwater. However, none of these parameters were detected more than once, at concentration greater than 0.7 µg/L, or exceeded their Class GA standards. These compounds are most likely related to anthropogenic sources and, in the case of hexachlorobenzene, potentially deposited as co-mingled wastes during the formation of the wastebeds.

The high resolution PCBs were detected in the nine samples at a Total PCBs concentration range of 0.58 ng/L to 26.5 ng/L, with the maximum Total PCBs concentration in SB915-MW-36I on Wastebed 14. There were no groundwater exceedances observed. These compounds are most likely related to anthropogenic sources; however, there is the potential these compounds were deposited as co-mingled waste in the Solvay waste slurry during the formation of the wastebeds.

Polychlorinated dibenzo-p-dioxins/polychlorinated dibenzofurans (PCDD/Fs) were detected in four of the Solvay waste/shallow fill groundwater samples, but 2,3,7,8-tetrachlorinated dibenzo-p-dioxin (TCDD) was not detected (**Tables 14 and 24**). The calculated Total Toxic Equivalents (Total TEQs) ranged from 0.0004 pg/L to 0.003 pg/L, with no exceedances observed above the Class GA standard (**Tables 16 and 26**). These compounds are most likely related to anthropogenic sources (*e.g.*, atmospheric deposition); however, there is the potential these compounds were deposited as co-mingled waste in the Solvay waste slurry during the formation of the wastebeds.

Inorganics detected in the Solvay waste/shallow fill groundwater included sodium, barium, iron, selenium, mercury, silver, antimony, magnesium, chromium, copper, zinc, calcium, potassium, and nickel. Sodium, potassium, and calcium were detected at the highest concentrations and frequencies. Mercury was detected in 17 of 17 samples and had a maximum concentration of 0.003 mg/L in SB915-MW-91S on Wastebed 13 (**Tables 13, 23, 28, and 31**) with three exceedances of its Class GA standard (**Figure K-1.11**).

Additional water quality parameters detected at elevated concentrations or at concentrations exceeding their Class GA standards or guidance values included chloride, ammonia and other nitrogen compounds, total recoverable phenolics, bromide, sulfate, alkalinity, hardness, TDS, chemical oxygen demand (COD), total organic carbon (TOC), biochemical oxygen demand (BOD), and total Kjeldahl nitrogen (TKN). The highest concentrations of chloride were also observed in SB915-MW-53I (**Tables 15, 25, 29, and 32; Figure K-1.12**), while maximum concentrations (by monitoring well) for total alkalinity ranged from 520 mg/L to 1,600 mg/L (**Figure K-1.13**). Chloride concentrations were observed at their highest concentrations in SB915-MW-36I (Wastebed 14), SB915-MW-42I (Wastebed 9/10), and SB915-MW-53I (Wastebed 11), with the maximum concentration of 61,000 mg/L at SB915-MW-53I.

5.2.1.2. Shallow Groundwater – Native

Summary statistics are provided in **Table 34** for the groundwater parameters detected in shallow native unit groundwater for the samples collected during the four quarters. Benzene, chlorinated benzenes, acetone, and toluene were the dominant VOCs detected in the Site shallow native groundwater. Among the additional parameters detected in these samples were 1,2-dichloroethane, ethylbenzene, total xylenes, and cis-1,2-dichloroethene. The highest concentrations were observed for benzene, chlorobenzene, 1,2-dichlorobenzene, and 1,4-dichlorobenzene, as well as the highest frequencies of detection (**Tables 7, 17, 27, and 30**). **Figures K-2.1 through K-2.10** present the maximum concentrations observed for the targeted organic parameters presented in Section 5.1.1. The chlorinated benzenes, cis-1,2-dichloroethene, and 1,2-dichloroethane were detected in monitoring wells located along the perimeter of Wastebed 13 (**Figures K-2.1 through K-2.5**), while acetone, benzene, and toluene compounds had a wider distribution throughout the Site (**Figures K-2.6, K-2.7, and K-2.9**).

For SVOCs, phenol, acetophenone, and assorted phenols and polycyclic aromatic hydrocarbons (PAHs) were among the most detected parameters in the shallow native groundwater. Most parameters were observed in less than 25% of the samples and at concentrations less than 1 µg/L (**Tables 8 and 18**). The highest concentrations and exceedances of Class GA standards and guidance values were observed for phenol (max = 380 µg/L), 2-methylphenol (max = 18 µg/L), and 3&4-methylphenol (max = 520 µg/L) in SB915-WB-10U adjacent to Wastebeds 9/10 in monitoring wells along the perimeters of Wastebeds 9-11.

Herbicides and Method SW8141 pesticides were not detected in the shallow native groundwater. However, multiple Method SW8081 pesticides were detected in the groundwater samples but at detection frequencies less than 10%, and no concentrations exceeded their Class GA standards. These compounds are most likely related to anthropogenic sources with some potential input from historic pre-wastebed on-site or upgradient usage.

The high resolution PCBs were detected in all 28 samples with a Total PCBs concentration range of 0.46 ng/L to 437 ng/L. Detected congener concentrations were summed together to determine the Total PCBs concentrations (**Tables 12 and 22**). The lone exceedance of the Class GA standard was observed in SB915-MW-111S along the northern perimeter of Wastebeds 9/10; no other shallow native groundwater exceedances were observed. These compounds are most likely related to anthropogenic sources; however, these compounds may be related to materials that were co-mingled with Solvay waste slurry during the formation of the wastebeds.

PCDD/Fs were detected in the shallow native groundwater samples, but 2,3,7,8-TCDD was not detected (**Tables 14 and 24**). The calculated Total TEQs ranged from 0.0005 pg/L to 0.06 pg/L, with no exceedances observed above the Class GA standard (**Tables 16 and 26**). These compounds are most likely related to historic anthropogenic sources (*e.g.*, atmospheric deposition); however, these compounds may be related to materials that were co-mingled with Solvay waste slurry during the formation of the wastebeds.

Inorganics detected in the shallow native groundwater included sodium, manganese, iron, magnesium, barium, mercury, calcium, potassium, nickel, and aluminum. Sodium, potassium, magnesium, and calcium were detected at the highest concentrations and frequencies. Mercury was present in 88% of the samples and had a maximum concentration of 0.0001 mg/L (**Tables 13, 23, 28, and 31**) but did not exceed its Class GA standard (**Figure K-2.11**). The highest concentration of mercury was observed in SB915-MW-104S (**Table 13; Figure K-2.11**).

Additional water quality parameters detected at elevated concentrations or at concentrations exceeding their Class GA standards or guidance values included chloride, bromide, total recoverable phenolics, sulfate, ammonia and other nitrogen compounds, hardness, TDS, alkalinity, COD, and TOC. The highest concentrations of chloride were also observed in SB915-MW-104S (**Tables 15, 25, 29, and 32; Figure K-2.12**) with concentrations greater than 20,000 mg/L observed in both Wastebeds 9-11 and Wastebeds 12-15 and the maximum concentration of 61,000 mg/L at SB915-MW-104S. Total alkalinity maximum concentrations by monitoring well are presented on **Figure K-2.13**.

5.2.1.3. Intermediate Groundwater

Summary statistics are provided in **Table 35** for the groundwater parameters detected in intermediate native groundwater for the samples collected during the four quarters. Benzene, chlorinated benzenes, and 1,2-dichloroethane were the dominant VOCs detected in the Site intermediate native groundwater. Among the additional parameters detected in these samples were cis-1,2-dichloroethene, toluene, ethylbenzene, total xylenes, and acetone. The highest concentrations were observed for benzene, chlorobenzene, 1,2-dichlorobenzene, and 1,4-dichlorobenzene, as well as the highest frequencies of detection (**Tables 7, 17, 27, and 30**). **Figures K-3.1 through K-3.10** present the maximum concentrations observed for the targeted organic parameters presented in Section 5.1.1. The chlorinated benzenes, cis-1,2-dichloroethene, 1,2-dichloroethane, ethylbenzene, toluene, and total xylenes were only detected in monitoring wells located along the perimeter of Wastebed 13 (**Figures K-3.1 through K-3.5 and K-3.8 through K-3.10**). Acetone and benzene were each detected in at least one monitoring well along the perimeter of Wastebed 13 and SB915-MW-109I (**Figures K-3.6 and K-3.7**).

Intermediate groundwater SVOCs were not detected in a frequency greater than two out of seven samples or concentrations greater than 2 μg/L. Phenol was the highest detected parameter at 1.9 μg/L at SB915-MW-109I.

There were no pesticides or herbicides detected in the intermediate native groundwater. High resolution PCBs were detected in all seven samples with a Total PCBs concentration range of 0.52 ng/L to 2.59 ng/L (**Tables 12 and 22**), with no exceedances of the Class GA groundwater standard. PCDD/Fs were detected in all of the intermediate native groundwater samples, but 2,3,7,8-TCDD was not detected (**Tables 14 and 24**). The calculated Total TEQs ranged from 0.0006 pg/L to 0.005 pg/L, with no exceedances of the 0.7 pg/L Class GA standard (**Tables 16 and 26**). The PCBs and PCDD/Fs are most likely present from anthropogenic sources (*e.g.*,

atmospheric deposition); however, these compounds may be related to materials that were co-mingled with Solvay waste slurry during the formation of the wastebeds.

Inorganics detected in the intermediate groundwater included sodium, magnesium, iron, manganese, barium, selenium, chromium, mercury, calcium, potassium, and aluminum (**Tables 13, 23, 28, and 31**). As with the shallow native groundwater, sodium, potassium, magnesium, and calcium were detected at the highest concentrations and frequencies. Mercury and chromium were detected in greater than 50% of the samples, and **Figure K-3.11** shows that mercury was detected in all but one well (SB915-MW-111I).

Additional water quality parameters detected at elevated concentrations or at concentrations exceeding their Class GA standards or guidance values included chloride, ammonia and other nitrogen compounds, bromide, total recoverable phenolics, sulfate, hardness, TDS, alkalinity, COD, and TOC. The highest concentrations of chloride were observed near the retention ponds and along the perimeter of Wastebeds 9-11, with the maximum concentration of 43,000 at SB915-MW-111I (**Tables 15, 25, 29, and 32; Figure K-3.12**). Total alkalinity maximum concentrations by monitoring well are presented on **Figure K-3.13**.

5.2.1.4. Deep Groundwater

Summary statistics are provided in **Table 36** for the groundwater parameters detected in deep native groundwater for the samples collected during the four quarters. Like intermediate native groundwater, benzene, chlorinated benzenes, and 1,2-dichloroethane were the dominant VOCs detected in the Site deep native groundwater samples. Additional detected parameters included cis-1,2-dichloroethene, toluene, and acetone. Chlorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, and benzene had the highest frequencies of detection, while chlorobenzene (402 µg/L [SB915-MW-89D]) and acetone (250 µg/L [SB915-WB-07L]) had the highest detected concentrations. **Figures K-4.1 through K-4.9** present the maximum concentrations observed for the targeted organic parameters presented in Section 5.1.1. The chlorinated benzenes, benzene, cis-1,2-dichloroethene, and 1,2-dichlorethane were only detected in monitoring wells located along the perimeter of Wastebed 13 (**Figures K-4.1 through K-4.5 and Figure K-4.7**). Acetone and toluene were each detected in at least two monitoring wells along Wastebed 13 and on Wastebeds 9-11 (**Figures K-4.6 and K-4.9**).

Few SVOCs were detected in the deep native groundwater monitoring wells, with a typical detection frequency less than15%. Phenol was the only SVOC that exceeded its Class GA standard and was detected above 4 µg/L (max. concentration = 57 µg/L at SB915-MW-42D).

A single detection of 4,4'-DDD was the only pesticide or herbicide present in the deep native groundwater samples (**Tables 9 and 19)**. 4,4'-DDD was present at a concentration of 0.0008 µg/L in SB915-MW-111D. This is not a Site-related constituent. Its presence is likely from an unknown upgradient source or was used historically prior to the formation of the wastebeds.

High resolution PCBs were detected in all 16 samples at a Total PCBs concentration range of 0.43 ng/L to 5.47 ng/L (**Tables 12 and 22**), with no exceedances of the Class GA groundwater standard. PCDD/Fs were detected in nine of the 16 deep groundwater samples, but 2,3,7,8-TCDD was not detected (**Tables 14 and 24**). The calculated Total TEQs ranged from 0.0005 pg/L to 0.38 pg/L, with no exceedances of the 0.7 pg/L Class GA standard (**Tables 16 and 26**). The PCBs and PCDD/Fs are most likely present from anthropogenic sources (*e.g.*, atmospheric deposition); however, these compounds may be related to materials that were co-mingled with Solvay waste slurry during the formation of the wastebeds.

Inorganics detected in the deep native groundwater included sodium, iron, magnesium, manganese, barium, selenium, chromium, nickel, mercury, calcium, and potassium (**Tables 13, 23, 28, and 31**). Sodium, potassium, magnesium, and calcium were detected at the highest concentrations and frequencies. Mercury and chromium were detected in greater than 50% of the samples, and **Figure K-4.11** shows that mercury was detected in most of the deep native groundwater monitoring wells, with a maximum concentration of 0.00002 mg/L in SB915-WB-07L adjacent to Wastebed 11 and the Interbed Area.

Additional water quality parameters detected at elevated concentrations or at concentrations exceeding their Class GA standards or guidance values included chloride, ammonia and other nitrogen compounds, bromide,

sulfate, total recoverable phenolics, hardness, TDS, COD, alkalinity, and TOC. Total alkalinity maximum concentrations by monitoring well are presented on **Figure K-4.12**. The highest concentrations of chloride were observed along the northern perimeter of Wastebed 12, southern perimeter of Wastebed 11, and perimeter of Wastebeds 9/10, with the maximum concentration of 73,000 mg/L at SB915-MW-107D (**Tables 15, 25, 29, and 32; Figure K-4.13**).

5.2.1.5. Bedrock Groundwater

Summary statistics are provided in **Table 37** for the groundwater parameters detected in bedrock groundwater for the samples collected during the four quarters. For VOCs, benzene, chlorobenzene, carbon disulfide, chloromethane, acetone, and toluene were the dominant VOCs detected in the bedrock groundwater. Additional parameters were detected at a frequency ≤ 5%, with no VOC detected in more than seven out of 37 samples. Benzene, chlorobenzene, and acetone had the highest detected concentrations (5.5 µg/L, 17 µg/L, and 8.2 µg/L, respectively). **Figures K-5.1 through K-5.10** present the maximum concentrations observed for the targeted organic parameters presented in Section 5.1.1. With the exception of acetone, the detected organic parameters in **Figures K-5.1 through K-5.5 and K-5.7 through K-5.10** were not detected in any particular pattern. Acetone was only detected in monitoring wells along the perimeter of Wastebed 13 (**Figure K-5.6**), while chlorobenzene was only detected in SB915-MW-118BR near the retention ponds.

Phenanthrene and bis(2-ethylhexyl)phthalate were the only SVOCs detected in the bedrock groundwater monitoring wells with a typical detection frequency greater than 11%. Phenanthrene was the only SVOC detected more than twice.

4,4'-DDD and endrin were the only pesticides present in the bedrock groundwater samples (**Tables 9 and 19)**. Both parameters were detected at a concentration of 0.001 µg/L in SB915-MW-111BR. These are not Site-related constituents. Their presence is likely from an unknown upgradient source, or they were used historically prior to the formation of the wastebeds.

The high resolution PCBs were detected in all nine samples at a Total PCBs concentration range of 0.38 ng/L to 4.86 ng/L (**Tables 12 and 22**), with no exceedances of the Class GA groundwater standard. PCDD/Fs were detected in the nine bedrock groundwater samples, but 2,3,7,8-TCDD was not detected (**Tables 14 and 24**). The calculated Total TEQs ranged from 0.00072 pg/L to 0.0051 pg/L, with no detected concentrations exceeding the 0.7 pg/L Class GA standard (**Tables 16 and 37**). The PCBs and PCDD/Fs are most likely present from anthropogenic sources (*e.g.*, atmospheric deposition); however, these compounds may be related to materials that were co-mingled with Solvay waste slurry during the formation of the wastebeds.

Inorganics detected in the bedrock groundwater included sodium, iron, magnesium, manganese, boron, selenium, antimony, chromium, copper, nickel, barium, mercury, calcium, and potassium (**Tables 13, 23, 28, and 31**). As with Site groundwater, sodium, potassium, magnesium, and calcium were detected at the highest concentrations and frequencies. Mercury and chromium were detected in ≥ 50% of the samples, and **Figure K-5.11** shows that mercury was detected in most of the bedrock groundwater monitoring wells, with a maximum concentration of 0.00001 mg/L.

Additional water quality parameters detected at elevated concentrations or at concentrations exceeding their Class GA standards or guidance values included sulfate, ammonia and other nitrogen compounds, chloride, bromide, total recoverable phenolics, COD, hardness, TDS, alkalinity, and TKN. The highest concentrations of chloride were observed along the perimeter of Wastebeds 9-11, with the maximum concentration of 140,000 mg/L at SB915-MW-14BR (**Tables 15, 25, 29, and 32; Figure K-5.12**). Total alkalinity maximum concentrations by monitoring well are presented on **Figure K-5.13**.

5.2.2. Subsurface Leachate

Subsurface leachate samples were collected during the four quarters between May 2012 and March 2013. A sample summary table is presented as Table 3-5 (Section 3.1.11), and the analytical results are included as **Tables 38 to 47, Tables 48 and 49, Tables 50 to 59, and Tables 60 to 69** for Quarter 1, Quarter 2, Quarter 3, and Quarter 4, respectively. These results were compared against the applicable New York State Class GA Ambient Water Quality Standards and Guidance Values (NYSDEC, 1998). Wastebeds 12-15 and Wastebeds 9-11

were evaluated separately for discussion purposes below. **Figures K-6.1 to K-6.3** present the maximum concentrations observed for sodium, chloride, and total alkalinity.

5.2.2.1. Wastebeds 12 through 15

Summary statistics for the Wastebeds 12-15 locations (LCCS manholes) are provided in **Table 70** for the subsurface leachate parameters detected in the samples collected during the four quarters. The subsurface leachate sample locations are SB915-MH-01 through SB915-MH-18.

Benzene, chlorinated benzenes, acetone, toluene, and 2-butanone were the dominant VOCs detected in the subsurface leachate samples (**Tables 38, 50, and 60**). 2-Butanone is the only one of those VOCs to not exceed its Class GA standard at least once. The highest concentrations detected were for acetone at sample locations between SB915-MH-07 and SB915-MH-14, which are located along the northern berms of Wastebeds 12 and 13. The maximum concentrations for benzene, toluene, and the chlorinated benzenes were observed in SB915-MH-15 and SB915-MH-16, which are located along the eastern berms of Wastebeds 12 and 15.

For SVOCs, phenol was the dominant compound detected in the subsurface leachate, with assorted phenols and PAHs and acetophenone also detected in the samples (**Tables 39, 51, and 61**). The highest phenol concentrations were detected in SB915-MH-15 through SB915-MH-18 along the eastern berms of Wastebeds 12 and 15, and the maximum detected concentration was from SB915-MH-18 (1,400 µg/L).

Pesticides were not detected at frequencies greater than 40% or concentrations greater than 0.003 µg/L for any LCCS manhole sample, while herbicides were not detected in any samples (**Tables 40, 52, and 62**). Of the pesticides detected, 4,4'-DDT and endosulfan I were observed at the highest frequencies and concentrations, with a maximum detected concentration of 0.003 µg/L.

High resolution PCBs were detected in all subsurface leachate samples; the detected congener concentrations were summed together to determine the Total PCBs concentrations (**Tables 43, 55, and 65**). The Total PCB concentrations ranged from 0.62 ng/L to 4.20 ng/L and did not exceed the Class GA standard (90 ng/L).

PCDD/Fs were detected in the subsurface leachate samples, but 2,3,7,8-TCDD was not detected (**Tables 45, 57, and 67**). The calculated Total TEQs ranged from 0.0000004 ng/L to 0.0005 ng/L, which do not exceed the Class GA standard of 0.0007 ng/L (**Tables 47, 59, and 69**).

Inorganic compounds detected included sodium, barium, iron, manganese, mercury, cyanide, calcium, potassium, and nickel. Sodium, potassium, and calcium were detected at the highest concentrations and frequencies. Sodium was detected in all 70 samples collected from the LCCS manholes, with all concentrations exceeding the Class GA standard (**Figure K-6.1**). Mercury was present in all 18 sample locations and had a maximum concentration of 0.001 mg/L (SB915-MH-15 and SB915-MH-16; **Tables 44, 56, and 66**), which exceeded its Class GA standard. The highest concentrations of these parameters were observed in the Quarter 2 samples (**Table 56**).

Additional water quality parameters detected at elevated concentrations or at concentrations exceeding their Class GA standards or guidance values included chloride, total recoverable phenolics, ammonia, bromide, sulfate, alkalinity, BOD, hardness, TDS, and TOC. Like sodium, chloride and total alkalinity were detected in all 70 samples collected from the LCCS manholes (**Figures K-6.2 and K-6.3**, respectively), with all chloride concentrations exceeding its Class GA standard. Maximum concentrations of chloride were observed between SB915-MH-03 and SB915-MH-15. The highest concentrations of these parameters were observed in the Quarter 2 samples.

5.2.2.2. Wastebeds 9 through 11

Summary statistics for the Wastebeds 9-11 locations are provided in **Table 71** for the subsurface leachate parameters detected in the samples collected during the four quarters. The subsurface leachate sample locations are SB915-PCP-01 and SB915-PCP-02.

Benzene, chlorinated benzenes, acetone, toluene, and 2-butanone were the VOCs detected in the Wastebeds 9-11 subsurface leachate samples, with benzene and acetone exceeding their Class GA standards at least once (**Tables**

38, 50, and 60). The highest VOC concentrations were detected in the SB915-PCP-02 sample, which is the discharge point for the Wastebeds 9/10 collection system to the Interbed Area (located along the southern Wastebed 9/10 berm).

Phenol, 2-methylphenol, 3&4-dimethylphenol, assorted PAHs, and acetophenone were detected in the two samples (**Tables 39, 51, and 61**). These three phenolic compounds were detected at their highest concentrations in SB915-PCP-02 (max. concentration = 100 µg/L).

Pesticides and herbicides were not detected in the Wastebeds 9-11 subsurface leachate samples. High resolution PCBs were detected in both subsurface leachate samples; the detected congener concentrations were summed together to determine the Total PCBs concentrations (**Tables 43, 55, and 65**). The Total PCB concentrations ranged from 0.17 ng/L to 1.63 ng/L and did not exceed the Class GA standard (90 ng/L).

PCDD/Fs were detected in both subsurface leachate samples (**Tables 45, 57, and 67**). The calculated Total TEQs ranged from 0.000006 ng/L to 0.000002 ng/L, which do not exceed the Class GA standard of 0.0007 ng/L (**Tables 47, 59, and 69**).

Inorganic compounds detected included manganese, sodium, iron, magnesium, mercury, calcium, and potassium. Sodium, potassium, and calcium were detected at the highest concentrations and frequencies. Sodium concentrations exceeded its Class GA standard for four samples, with the higher concentrations observed in SB915-PCP-02 (**Figure K-6.1**). Mercury was present in all both samples and had a maximum concentration of 0.000008 mg/L (**Tables 44, 56, and 66**), which did not exceed its Class GA standard. The highest concentrations of these parameters were observed in SB915-PCP-02 (**Table 66**).

Additional water quality parameters detected at elevated concentrations or at concentrations exceeding their Class GA standards or guidance values included chloride, total recoverable phenolics, ammonia, sulfate, alkalinity, COD and BOD, hardness, TDS, and TOC. For chloride and total alkalinity, concentrations of each were detected in all four samples, with chloride exceeding its Class GA standard each sample and the higher concentration observed in SB915-PCP-02 (**Figures K-6.2 and K-6.3**, respectively). The highest concentrations of chloride, hardness, alkalinity, and sulfate were observed in SB915-PCP-02.

5.2.3. Surface Leachate

One surface leachate sample (SB915-CIWP-SP-33) on Wastebed 15 was collected during Quarter 4; the analytical results are included as **Tables 72 to 81**. These results were compared against the applicable New York State Class C Ambient Water Quality Standards and Guidance Values (NYSDEC, 1998); Class C standards for hardness-dependent metals were calculated using a value of 2,212.6 mg/L, which was the average hardness for all surface water samples collected during the four quarters. **Figures K-6.1 to K-6.3** present the maximum concentrations observed for sodium, chloride, and total alkalinity.

For VOCs, chlorinated benzenes, acetone, and the BTEX compounds were detected at the highest concentrations, with 2-butanone and 4-methyl-2-pentanone also detected in the sample (**Table 72**). The total chlorinated benzene and BTEX concentrations in the sample were 71.3 µg/L and 59.5 µg/L, respectively. These concentrations were significantly chlorobenzene (56 µg/L) and benzene (49 µg/L), with both exceeding their Class C standards. 1,2-Dichlorobenzene and 1,4-dichlorobenzene also exceeded their Class C standards.

Phenolic compounds were the dominant SVOCs detected in the surface leachate sample, with some PAHs and miscellaneous SVOCs present (**Table 73**). The majority of these parameters were detected at concentrations less than 3 µg/L, but phenol was detected at 180 µg/L, which exceeded its Class C standard.

Four pesticides were detected via Method SW8081, while no herbicides or SW8141 pesticides were detected in the sample (**Tables 74, 75, and 76**). The pesticides detected in the sample included alpha-BHC, endrin aldehyde, gamma-BHC, and methoxychlor, with no concentrations exceeding 0.0024 µg/L.

The high resolution PCBs were detected in the surface leachate sample, and the detected congener concentrations were summed together to determine a Total PCBs concentration (13.5 ng/L; **Table 77**). This value was compared to its Class C standard (0.001 ng/L) and was determined to exceed this standard.

PCDD/Fs were detected in the surface leachate sample at concentrations ranging from 0.0002 ng/L to 0.002 ng/L, with 2,3,7,8-TCDD not detected (**Table 79**). The Total TEQ calculated for this sample was 0.00033 ng/L, which exceeds the Class C standard of 0.0000006 ng/L (**Table 81**).

Inorganic compounds detected included sodium, cyanide, mercury, potassium, and sodium (**Table 78**). Calcium and sodium had the highest concentrations (920 mg/L and 1,100 mg/L, respectively; **Figure K-6.1**), and cyanide exceeded its Class C standard. Mercury was detected at 0.000007 mg/L and exceeded its Class C standard.

Additional water quality parameters detected at elevated concentrations included chloride, hardness, TDS, chemical oxygen demand, and total recoverable phenolics. Chloride and total alkalinity concentrations are presented on **Figures K-6.2 and K-6.3**, respectively. The analytical results are comparable to those observed for the nearby LCCS manholes (SB915-MH-01 and SB915-MH-02).

5.2.4. Surface Water

Surface water samples were collected from the Site and NMC during the four quarters between May 2012 and March 2013. A sample summary table is presented as Table 3-6 (Section 3.1.12), and the analytical results are included as **Tables 82 to 93, Tables 94 and 95, Tables 96 to 105, and Tables 106 to 109** for Quarter 1, Quarter 2, Quarter 3, and Quarter 4, respectively. These results were compared against the applicable New York State Class C Ambient Water Quality Standards and Guidance Values (NYSDEC, 1998). For parameters that have more than one Class C standard, the most conservative standard was used for comparison purposes. It should be noted that the most conservative standards may not be directly applicable to each surface water sampling location (*e.g.*, Class C H(FC) for human consumption of fish in fresh water would not be directly applicable to the former gravel pit). Per the NYSDEC, Class C surface waters are suitable for fishing, shellfish, and wildlife propagation and survival, as well as primary and secondary contact recreation. Hardness-dependent metals Class C standards were calculated using a value of 2,212.6 mg/L, which was the average hardness for all surface water samples collected during the four quarters. **Figures K-7.1 to K-7.4** present the maximum concentrations observed for sodium, chloride, total alkalinity, and total dissolved solids.

The discussion below is presented in two sections: Site-related analytical results and NMC analytical results. This was done to facilitate comparison of the Site-related data and NMC data to determine how the waterbody is impacted by the Site.

5.2.4.1. Site Surface Water

Summary statistics are provided in **Table 110** for the surface water parameters detected in Site surface water bodies for the samples collected during the four quarters. These sample locations are: Outfalls 011, 017, and 019; Gravel Pit; Retention Pond #1; Retention Pond #2-1 and #2-2; Iron Brook, Interbed Area #1, #2, and #3; and Ponded Area North of Wastebed 11.

Benzene, acetone, 2-butanone, and carbon disulfide were the only VOCs detected in the Site surface water samples; however, only acetone was detected in more than two samples and at a concentration greater than 2 µg/L. The highest acetone concentration was observed in the Ponded Area North of Wastebed11 (31 µg/L; **Tables 82 and 96**). Given the low detection frequency and detected concentrations, these compounds are likely due to anthropogenic sources with some contribution from Site-related shallow groundwater impacted by wastebed leachate.

Similar to VOCs, there were few SVOCs detected with no detected concentration exceeding 9 µg/L. Bis(2-ethylhexyl)phthalate (BEHP) was detected in six samples (max. concentration = 8.3 µg/L [Iron Brook]) and exceeded its Class C standard (0.6 µg/L) for all six locations. The remaining detected SVOCs did not exceed 3.1 µg/L or their respective Class C standards or guidance values. Phenanthrene and fluoranthene were the only other SVOCs detected at a frequency greater than 25%. Given the low detection frequency and detected concentrations, these compounds are likely due to anthropogenic sources with some contribution from Site-related shallow groundwater impacted by wastebed leachate.

Gamma-BHC was the only pesticide detected in surface water samples at Outfall 019; no other pesticides or herbicides were detected. Conversely, multiple pesticides (via Method SW8081) were detected in the five

PISCES samples (**Tables 84 and 107**). The detected concentrations ranged from 0.10 µg/L to 7.0 µg/L for the hexane media after a three-week deployment period in these Site waterbodies. As noted in **Table 110**, the detected concentrations are representative of aquatic organism tissue uptake and are not representative of surface water concentrations, so the PISCES results were not compared to NYS Class C Surface Water standards. Given the low detection frequency and detected concentrations, these compounds are likely due to anthropogenic sources.

Due to a laboratory error, few of the Quarter 1 high resolution PCB samples were analyzed, and a full set of samples were collected and analyzed in Quarter 4. This results discussion presents the data for both events. PCB congeners and homologs were detected in all 19 surface water (13 samples) and PISCES (six samples) samples (**Tables 89 and 107 and Tables 88 and 106**, respectively). The surface water samples had a lower range of Total PCBs concentrations than the PISCES samples (0.19 ng/L to 389 ng/L versus 0.48 ng/L to 622 ng/L, respectively). This is expected since the PISCES samples represent aquatic organism tissue uptake of these compounds and are not representative of surface water concentrations, so the PISCES results were not compared to NYS Class C Surface Water standards. A Class C standard of 0.001 ng/L was compared to the surface water results, and each of the surface water samples had a Total PCBs concentration exceeding this standard. The highest concentrations for both water and PISCES samples were observed for samples Interbed #2 and #3, Iron Brook, and Retention Pond #1 and #2-2 during Quarter 4 and Interbed #3 for Quarter 1 (**Tables 89 and 107 and Tables 88 and 106**). The sources of these compounds are unknown but likely include anthropogenic sources or waste co-mingled with the Solvay waste slurry sent to the wastebeds.

PCDD/Fs were detected in seven of the 12 Site surface water locations, with Outfall 011, Outfall 017, and Outfall 019 having the highest number of detected concentrations (**Tables 91 and 103**). OCDD was observed in all seven samples, and the Total TEQs ranged from 0.0000005 ng/L to 0.009 ng/L, with six locations exceeding the Class C standard (**Tables 93 and 105**). These compounds are likely due to anthropogenic sources (*e.g.*, atmospheric deposition).

Inorganic compounds detected in the Site surface waters included iron, cyanide, aluminum, mercury, calcium, sodium, and potassium. The highest detected concentrations and detection frequencies were observed for calcium, sodium, and potassium, with the Outfall 017, Interbed Area, and Retention Ponds #1 and #2 having the higher detected concentrations (**Tables 90, 94, 102, and 108**); sodium maximum concentrations are presented on **Figure K-7.1**. Iron, cyanide, and aluminum were the only inorganics exceeding their Class C standards, and mercury was detected in all 12 Site surface water locations (max. concentration = 0.00003 mg/L) and exceeded the 0.0000007-ng/L Class C standard at all 12 locations.

Additional water quality parameters detected at elevated concentrations and/or high detection frequencies included alkalinity, COD, chloride, hardness, sulfate, TDS, TOC, ammonia, and total recoverable phenolics. The highest concentrations are observed for sample locations immediately adjacent to the wastebeds (Interbed Area and Ponded Area N of Wastebed11) and receiving direct input of leachate impacted waters (Outfalls 011, 017, and 019 and Retention Ponds #1 and #2). Chloride and total alkalinity maximum concentrations are presented on **Figures K-7.2 and K-7.3**, respectively.

5.2.4.2. Ninemile Creek Surface Water

Summary statistics are provided in **Table 111** for the surface water parameters detected in NMC surface water bodies for the samples collected during the four quarters. These sample locations are: NMC-Reference Reach, NMC-Reach A, NMC-Reach B, NMC-Reach C, NMC-Reach D, NMC-Reach E, and NMC-Reach F.

Benzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, and 1,2-dichloroethane were the only VOCs detected in the NMC surface water samples, with no concentration above 1.3 µg/L (**Tables 82 and 96**). These detected concentrations were observed for NMC-Reach C, D, E, and F, and none exceeded their Class C standards.

Assorted PAHs, butylbenzyl phthalate, and 7,12-dimethylbenz(a)anthracene were the only SVOCs detected in NMC, and no concentration was higher than 1 µg/L. Detected concentrations were observed for NMC-Reaches A, B, C, D, and F, and none exceeded their Class C standards.

For surface water samples, there were no Method SW8081 pesticides detected in Reach A or SW8141 pesticides and herbicides in any of the NMC reaches (**Tables 85 to 87 and 98 to 100**). Conversely, pesticides were detected in all six PISCES samples analyzed for Method SW8081. The detected concentrations ranged from 0.15 µg/L to 17.0 µg/L for the hexane media after a three-week deployment period in these NMC reaches (**Table 84**). As noted in **Table 111**, the detected concentrations are representative of aquatic organism tissue uptake and are not representative of surface water concentrations, so the PISCES results were not compared to NYS Class C surface water standards. Given the low detection frequency in surface water and detected PISCES concentrations, these compounds are likely due to anthropogenic upstream sources. It should be noted that NMC flows through a predominantly agricultural area, and the pesticides detected are likely related to historical use of these compounds in the area.

Due to a laboratory error, few of the Quarter 1 high resolution PCB samples were analyzed, and a full set of samples were collected and analyzed in Quarter 4. This results discussion presents the data for both events. PCB congeners and homologs were detected in both Reach A water samples and the six PISCES samples (**Tables 88, 89, 106, and 107**). The surface water samples had a lower range of Total PCBs concentrations than the PISCES samples (0.65 ng/L to 1.53 ng/L versus 199 ng/L to 399 ng/L, respectively). This is expected since the PISCES samples represent aquatic organism tissue uptake of these compounds, so they were not compared to NYS Class C Surface Water standards. A Class C standard of 0.001 ng/L was compared to the Reach A surface water results, and both samples had a Total PCBs concentration exceeding this standard. The NMC-Reach A Total PCBs had little change between the two sample events, and the PISCES samples had a slight increase in concentration going downstream (**Tables 88, 89, 106, and 107**). These compounds are likely present due to anthropogenic upstream sources. With the exception of SB915-MW-111S, the shallow groundwater and subsurface leachate had similar Total PCBs concentrations as the NMC surface water samples; this indicates that the Site and NMC are receiving PCBs from the same source, which is likely to be regional anthropogenic sources.

PCDD/Fs were detected in seven of the NMC surface water locations, with Total TEQ concentrations decreasing as locations progressed downstream (**Tables 91 and 103**). The Total TEQs ranged from 0.0002 ng/L to 0.002 ng/L, with all locations exceeding the Class C standard (**Tables 93 and 105**). These compounds are likely due to anthropogenic sources (*e.g.*, atmospheric deposition).

Inorganic compounds detected in the NMC samples included aluminum, cyanide, iron, mercury, calcium, sodium, and magnesium. The highest concentrations were observed for sodium and calcium, with sodium and calcium concentrations showing an increase between the NMC-Reference Reach and NMC-Reach F for all four quarters (**Tables 90, 94, 102, and 108**). Mercury was detected at a maximum concentration of 0.000005 mg/L (NMC-Reach A) and exceeded the 0.0000007-ng/L Class C standard at six locations. The increase in concentration of certain inorganics (calcium, sodium [**Figure K-7.1**], and magnesium) as sample locations progress downstream is likely related to the Solvay waste leachate in the shallow groundwater.

Additional water quality parameters detected at elevated concentrations and/or high detection frequencies included alkalinity, chloride, hardness, nitrate, sulfate, TDS, TOC, COD, and ammonia. The highest concentrations are observed for NMC-Reaches D, E, and F, which indicates that these compounds/parameters are related to the Solvay waste that has leached into the shallow groundwater. **Figures K-7.2 and K-7.3** present the chloride and total alkalinity maximum concentrations for each reach in NMC.

5.2.5. Ninemile Creek Sediment

Sediment samples were collected from NMC-Reach C [whitish lens material], NMC-Reach D, and NMC-Reach F during the first and fourth quarters. A sample summary table is presented as Table 3-7 (Section 3.1.13), and the analytical results are included as **Tables 112 to 120 and Tables 121 to 123** for Quarter 1 and Quarter 4, respectively. These results were compared against the applicable NYSDEC Technical Guidance for Screening Contaminated Sediments (NYSDEC, 1999b). Sediment criteria that require calculation using an average TOC concentration was determined using an average TOC of 3,833 mg Organic Carbon (OC)/kg, or 3.833 gOC/kg.

Acetone was the only VOC detected in the NMC sediment samples and was only detected in NMC-Reach C (**Table 112**). There was no sediment criterion to compare to this concentration.

Assorted PAHs, BEHP, and butylbenzyl phthalate were detected in the three NMC sediment samples. The highest detected concentrations (max. concentration = 120 µg/kg) were detected in NMC-Reach C with a decreasing trend going downstream towards NMC-Reach F. Multiple PAHs exceed their sediment criteria in NMC-Reach C and NMC-Reach D, but no exceedances were observed in NMC-Reach F (**Table 113**), which has been subject to remediation efforts under the Geddes Brook/NMC Reach CD remedial action.

Only Method SW8081 pesticides were detected in the NMC sediments in NMC-Reach C and NMC-Reach D, with no herbicides and Method SW8141 pesticides detected in any of the three samples (**Tables 114, 115, and 121**). The detected pesticides included 4,4'-DDD, 4,4'-DDE, beta-BHC, delta-BHC, endosulfan sulfate, and endrin, with concentrations ranging from 0.25 µg/kg to 2.3 µg/kg. As with SVOCs, the highest concentrations were in NMC-Reach C with a decreasing trend downstream towards Reach F.

Due to a laboratory error, few of the Quarter 1 high resolution PCB surface water samples were analyzed, and a full set of surface water and sediment samples were collected and analyzed in Quarter 4 for PCBs. This results discussion presents the data for both events. PCB congeners and homologs were detected in all six sediment samples (**Tables 116 and122**). The Total PCBs concentrations for these samples exceeded their sediment criteria; however, Total PCB concentrations decreased moving downstream from NMC-Reach C to NMC-Reach F.

PCDD/Fs were detected in all three of the NMC sediment samples, with Total TEQ concentrations decreasing as locations progressed downstream (**Table 118**). The Total TEQs ranged from 0.2122 pg/g to 0.046186 pg/g, with no exceedances of the sediment criterion observed (**Table 120**).

The highest inorganic constituent concentrations were observed for aluminum, calcium, iron, and sodium **(Table 117**). Similar to the previous sediment analytical results, calcium and sodium (**Figure K-8.1**) show a decreasing trend between NMC-Reach C and NMC-Reach F; however, aluminum, magnesium, iron, and potassium show an increasing trend going downstream. The historical (and current) source of these compounds to NMC has been Solvay waste that has leached from the wastebeds via groundwater.

Detected water quality parameters applied to these sediment samples included alkalinity, BOD, COD, chloride, ammonia, TKN, nitrate and nitrite, sulfate, TDS, and TOC (**Table 119**). It should be noted that many of these parameters are not standard for sediment analysis and were reported in water units. The highest concentrations were observed for TOC and TKN, with a decrease in concentration going downstream. Typical Solvay waste-impacted parameters like chloride (**Figure K-8.2**), sulfate, and total alkalinity (**Figure K-8.3**) were detected at concentrations that did not exceed 57 mg/L.

5.2.6. Ninemile Creek Tracer Test

The NMC tracer test was performed to evaluate the groundwater recharge into the creek and its influence on the surface water. For each of the four reaches investigated, the tracer tests and groundwater influx calculations using inorganic chemistry were impacted by multiple challenges posed by the creek itself. These challenges included the large volume of surface water within NMC compared with the relatively minute influxes of groundwater. Additionally, the Rhodamine and influx of groundwater were not able to fully mix in NMC along any particular cross-section or the downstream path of the test reach during the tests due to:

- The large width of the creek,
- The variability of creek depth and flow patterns within the reaches, and
- The variability of cross-sectional velocity along the length of each reach.

Results for each parameter varied significantly enough between the left and right banks (looking upstream) to mask potential inputs of less than 0.5-1% of total stream flow.

The Rhodamine tracer test results are presented on **Figures 9 to 12**, and the anion and cation analytical results are presented in **Table 1**. A summary of the key geochemical parameters and their values used in the tracer test analysis are presented in **Table 6**. Based on the results from the tracer tests, the following observations were made for NMC.

- Test Reach #1 and #2 had the best mixing, and a net neutral input of groundwater was determined for both reaches.
- Test Reach #3 had poor mixing due to multiple channels, bends, and deep pools in the reach, as well as the inflow from Beaver Meadow Brook; this reach showed some gain of groundwater influx.
- Test Reach #4 also had poor mixing that likely affected the test results; some gain of groundwater influx was also observed for this reach, which was expected due to the presence of Wastebeds 9-11 adjacent to the test reach.

A previous study has evaluated a portion of NMC along Test Reach #4 and identified a groundwater influx of 2.4 cubic feet per second (or 17.6 gallons/sec) into the creek (Briggs *et al*., 2012). This flow represents approximately 0.5 to 1 % of the total flow in the creek. The Reach #4 tracer test was affected by the poor mixing, and an influx rate was not determined.

5.2.7. Phase 1 SAA

The results of the Phase 1 SAA including the macroinvertebrate sampling are included as **Appendix L**.

6. CONSTITUENT FATE AND TRANSPORT

The nature and extent of constituents in various media were described in Section 5. The predominant constituents present in the Site and NMC media were Solvay waste-related (*i.e.*, calcium, sodium, chloride, and TDS). Organic constituents were also detected in Site groundwater, surface water, and leachate, as well as NMC media. **Table 124** presents the relevant environmental fate data for the potentially Site-related compounds detected during the investigation. Based on data generated during the Closure Investigation, previous investigations, and the physical characteristics of the Site, the following potential transport mechanisms were evaluated:

- Transport of constituents from soil to surface water bodies via surface water runoff
- Transport of constituents to the leachate collection systems and surface water bodies
- Groundwater transport of constituents to adjacent surface water bodies and downward migration into the deep groundwater zone
- Wind-borne particulate migration of constituents
- Vapor migration of volatile constituents

6.1. TRANSPORT OF CONSTITUENTS FROM SOIL TO SURFACE WATER BODIES VIA SURFACE WATER RUNOFF

Transport of constituents from soils to surface water bodies via surface water runoff may occur in areas in close proximity to NMC, on-site drainage ditches, the former gravel pit, the Interbed Area, and retention ponds. Surface water drainage is presented on **Figure 19**. Limited transport from the central areas of the wastebeds is expected due to topography, vegetation, and weir boxes. A portion of surface water runoff towards the center of Wastebed 13 is collected in the SCA and treated at the SCA treatment plant. Surface water runoff associated with the tops of the remainder of Wastebed 13 and the other wastebeds is either directed towards existing weir boxes, evaporates, or infiltrates the beds and becomes groundwater (subsurface leachate).

Transport of soils is occurring on areas of the wastebed perimeter berms. On Wastebeds 12-15, this water is directed to a perimeter stormwater swale surrounding this area. The stormwater is directed to a series of SPDES Outfalls (Outfall 017, 018, and 019) that discharge to surface water bodies (Gravel Pit, NMC, and Geddes Brook, respectively). Constituents are moving via the berm surface water runoff and being transported off-site based on surface water samples collected during the Closure Investigation, historic SPDES analytical results, and the Berm Stabilization and Erosion Control IM (O'Brien & Gere, 2013a). Similar overland flow is occurring on Wastebeds 9-11. A portion of this overland flow at Wastebeds 9-11 is entering NMC and the Interbed Area; overland flow to NMC was addressed by the Phase 4 and 5 Seep Mitigation IMs (O'Brien & Gere, 2013b and 2015).

The transport of constituents in surface water runoff from the berms is more prevalent in areas with limited vegetation on the slopes. These areas were identified during reconnaissance efforts as part of the Berm Stabilization and Erosion Control IM (O'Brien & Gere, 2013a). Priority areas were addressed during the Berm Stabilization and Erosion Control IM construction as discussed in Section 2.1.6, and remaining areas will be addressed in the Site Closure Plan and Off-Site SAA Restoration Plan.

The transport of surface soils to the retention ponds is likely limited due to topography and the existing paved road surrounding the ponds. The area is generally flat around the ponds and the sloped area between the paved area and the ponds is also heavily vegetated.

6.2. TRANSPORT OF CONSTITUENTS TO THE LEACHATE COLLECTION SYSTEMS

A portion of the surface water runoff enters existing weir boxes that are tied directly into the existing LCCS on Wastebeds 12-15. The subsurface leachate is pH-adjusted and discharged to the retention ponds. This water is subsequently piped to Metro for treatment. The discharge to the retention pond contains chlorides (mean concentration = 6,090 mg/L) and TDS (mean concentration = 12,972 mg/L). Subsurface leachate is also collected along the northern berm and southern berm of Wastebeds 9/10 and pumped to the retention ponds.

The discharges to both collection systems also contain organic constituents, such as benzene, chlorobenzene, dichlorobenzene isomers, acetone, and phenolic compounds.

6.3. GROUNDWATER TRANSPORT OF CONSTITUENTS

The fate, persistence, and transport of constituents in groundwater are largely controlled by the geology and hydrogeology of the Site and NMC Valley, as discussed in Section 4. This includes the physical characteristics of the geology and inorganic constituents associated with the groundwater, which play a large role in the variable density characteristics of the groundwater. Also, the properties of the organic chemicals, such as solubility and sorption coefficients, control the retention of constituents in soils.

To a limited extent, groundwater migrates from the Solvay waste and shallow fill within the wastebeds to the native overburden groundwater. This migration is possible for dissolved organic and inorganic constituents in groundwater; however, two key factors play a role in limiting this transport pathway. The Solvay waste has a low hydraulic conductivity that will affect any movement of groundwater from within the wastebeds to the native overburden groundwater. Also, the glaciolacustrine deposits present below much of the Site provide a confining layer. The native groundwater units do have higher hydraulic conductivities than Solvay Waste and are hydraulically connected to each other and NMC. As a result, dissolved organic and inorganic constituents, which recharge these units with leachate from the overlying wastebeds, migrate from the wastebeds to the NMC. The migration of these constituents in this unit to NMC, though, is limited because of the limited recharge of leachate from the wastebeds due to the low vertical hydraulic conductivity of the Solvay Waste, and the presence of collection systems on Wastebeds 9-11 and Wastebeds 12-15.

6.4. WIND-BORNE MIGRATION OF CONSTITUENTS ON PARTICLES

Surface soils may be eroded via wind, and particle-bound constituents could potentially be carried off-site. Wind-borne migration is observed mostly with constituents that sorb strongly to particulate matter, such as PCBs or metals. This transport mechanism is feasible for the portions of Site that are sparsely vegetated but not considered a common occurrence. For the remainder of the Site, this transport mechanism is unlikely due to denser vegetation.

6.5. VAPOR MIGRATION OF VOLATILE CONSTITUENTS

Volatile constituents in Site soils and groundwater can vaporize, migrate through soil as soil vapor, and enter the atmosphere or the equipment buildings on-site. Vapor migration at the Site is possible due to the presence of VOCs in the shallow groundwater and subsurface leachate.

The SCA treatment plant on Wastebed 13 is currently the only occupied building on-site. Based on soil vapor data (**Appendix M**) collected as part of the pre-design of this facility, it was determined that a soil vapor mitigation system was not needed; however, a vapor barrier was installed underneath the office and laboratory area of the building as a precaution.

7. CONCEPTUAL SITE MODEL

This CSM was developed as part of the Closure Investigation. The CSM discussion below is based on the data obtained from the Wastebeds 9-15 Closure Investigation, SCA Hydrogeological Investigation, and previous investigations. The CSM is presented on **Figures 59, 60, and 61** for Wastebeds 12 and 14, Wastebed 13, and Wastebeds 9-11, respectively.

In general, the Site consists of seven wastebeds. Wastebeds 9-11 are separated from Wastebeds 12-15 by railroad tracks, by a topographically lower area between Wastebeds 12-15 and NMC, and by NMC itself, which flows immediately adjacent to Wastebeds 13, 11, and 9/10 as it flows towards Onondaga Lake. There are two constructed retention ponds immediately to the east of Wastebed 12 and leachate collection and conveyance systems installed along the perimeters of Wastebeds 12-15 and Wastebed 9/10 (**Figure 2**). Wastebeds 9/10 are separated from Wastebed 11 by the Interbed Area.

Surface drainage from the Site includes runoff from the perimeter berms of Wastebeds 12-15 that is collected in the drainage swale at the toe of the wastebed and discharges to NMC, Geddes Brook, or the former gravel pit on the northwest side of Wastebed 13**.** Outfall 017 discharges to the former gravel pit, Outfall 018 discharges to NMC upstream of the railroad bridge crossing the creek, and Outfall 019 discharges to Geddes Brook (**Figure 19**).

7.1. HYDROGEOLOGY

The Site is situated in the NMC Valley, which is a glacially-scoured bedrock channel. Wastebeds 9-15 are composed of Solvay waste that was deposited in constructed settling basins, with the thickness of the Solvay waste up to 70 ft in Wastebeds 9-11 and 90 ft in Wastebeds 12-15. Wastebeds 9-15 overlie the native overburden materials that make up the NMC Valley. Wastebeds 9-12, 14, and 15 have been constructed on the original ground surface. Wastebed 13 extends to an approximate depth of 35 feet below the original land surface, as it overlies a former sand and gravel quarry. The overburden deposits overlying the bedrock consist of glacial till, mixed NMC deposits (a sandy silt with variable amounts of gravel and clay), silt with varying amounts of fine grained silt and clay, glaciolacustrine silt and clay unit (where present), and anthropogenic fill (within the wastebeds).

Site hydrogeology was divided into seven units: Solvay waste/shallow fill unit, glaciolacustrine unit, three mixed NMC units (shallow native, intermediate native, and deep native), till unit, and bedrock unit. The shallow fill unit is composed of Solvay waste within the wastebeds. The glaciolacustrine (silt and clay) deposits are discontinuous beneath Wastebeds 9-15 and, where present, act as a locally semi-confining unit due to their low hydraulic conductivity. These glaciolacustrine deposits are present along the south and eastern edge of Wastebed 14, to the east of Wastebed 12, underneath the Interbed Area between Wastebeds 9-11, and to the northern edge of Wastebeds 9-11. The three mixed NMC units are identified as shallow native, intermediate native, and deep native and are linked hydraulically to the Solvay waste/shallow fill unit where the glaciolacustrine deposits are not present. This connection is also limited due to the low hydraulic conductivity of the Solvay waste in the wastebeds, as well as the Wastebeds 12-15 LCCS and Wastebeds 9/10 collection system. A portion of overburden groundwater likely discharges to NMC between Wastebeds 9-11 and Wastebeds 12-15.

For the mixed NMC units, groundwater within the shallow native unit is recharged by precipitation infiltrating through the overburden material and, to a limited extent, Solvay waste/shallow fill groundwater discharging from the wastebeds. The former sand and gravel quarry below Wastebed 13 acts a likely pathway for flow between the Solvay waste/shallow fill and shallow native units. A portion of the shallow native groundwater flow discharges to NMC, a surface water depression near a former gravel pit, the Interbed Area between Wastebeds 9-11, and other ponded surface water areas, as well as the intermediate native unit. The intermediate native and deep native groundwater units are directly connected and predominantly recharged by groundwater within the valley flowing towards the lake.

Due to low hydraulic conductivity, groundwater flow within the bedrock is slow and generally migrates towards Onondaga Lake following the regional flow of NMC Valley. The bedrock unit is recharged by precipitation falling on the sides of the valley and infiltrating into the bedrock unit where the till unit is absent. The low permeability of the bedrock limits this interaction, and flow from the deep native groundwater is limited due to the low permeability till.

7.2. SOURCE AREAS

The wastebeds received predominantly Solvay waste, with much smaller amounts of assorted co-mingled waste materials, while Wastebeds 9-15 were in operation. Historical releases while the wastebeds were in operation impacted Site groundwater, surface leachate, and subsurface leachate, Site and NMC surface water, and NMC sediment. Based on this investigation, the wastebeds are still a source of Solvay waste-related (*i.e.*, chloride) as dissolved constituents to NMC and the SAA. However, the organic constituents present in the SAA and NMC are most likely related to releases during operation of the wastebeds, upstream sources, or anthropogenic sources (*e.g.*, atmospheric deposition).

7.3. PRELIMINARY CONSTITUENTS OF INTEREST

The preliminary COIs are based on the analytical results presented in Section 5. There were organic and inorganic constituents detected in each environmental medium. Based on this investigation, the COIs in Site media and NMC related to the Site are Solvay waste-related constituents and included calcium, sodium, potassium, alkalinity, hardness (as calcium carbonate; $CaCO_3$), TDS, and chloride. Organic constituents were present within leachate and, to a lesser extent, native overburden groundwater at low concentrations, which is likely attributable to historic releases during operation, upstream sources, or anthropogenic sources. The organic constituents are considered to have a minimal impact on areas adjacent to the wastebeds, NMC, and Onondaga Lake.

7.4. IMPACTED MEDIA AND POTENTIAL TRANSPORT OF PRELIMINARY COIs

The Site groundwater, surface and subsurface leachate, and surface water are impacted by the COIs, as well as NMC surface water. As discussed above, the predominant COIs are Solvay waste-related and include calcium, sodium, potassium, alkalinity, hardness (as $CaCO_3$), TDS, and chloride. Viable migration pathways at the Site are considered to be:

- Surface water runoff
- Leaching
- Groundwater transport via shallow native and intermediate native groundwater to adjacent water bodies and downward migration into deep native and bedrock groundwater units
- Wind-borne migration of constituents on particles
- Vapor migration

Volatile constituents found in Solvay waste/shallow fill and shallow native materials and groundwater may enter the vapor phase. Once in the vapor phase, these compounds can migrate through soil and into the atmosphere. If there were structures on the Site, these compounds have the potential to migrate into the structures.

Transport of constituents from soils to adjacent surface water bodies via surface water runoff or leaching may occur from areas in close proximity to NMC, Interbed Area, and stormwater swales. Limited transport from the central areas of the wastebeds is expected due to ET and infiltration/percolation versus overland flow. Transport of soils likely occurs in areas where surface water bodies and ditches are adjacent to sloped portions of the berms. In some these areas, the established vegetation and the benched construction of the berms help retain the soils and limit the transport of soils to surface water.

The wastebed materials represent a historic and current source for COIs detected in groundwater on-site. Solvay waste also acts a source for inorganics detected in groundwater including chloride.

Shallow groundwater has limited radially flow from the Solvay waste/shallow fill to the shallow native materials adjacent to NMC, the LCCS stormwater swales, and Interbed Area. This discharge is observed as surface leachate (unmitigated seeps) and subsurface leachate (collected by the LCCS and Wastebeds 9/10 collection system). NMC also may also receive limited groundwater input from upward migration of intermediate native unit groundwater. Dissolved COIs can migrate with the shallow groundwater leaching to the surface and in the leachate collected via installed systems, as well as the shallow and intermediate native groundwater migrating upward into NMC.

Limited vertical migration of groundwater occurs through gaps in the glaciolacustrine silt and clay confining unit beneath Wastebeds 12, 14, and 15 and Wastebeds 9-11. A small portion of the shallow native groundwater also migrates downward to the intermediate and deep native units, with this more likely to occur below Wastebed 13. Some upward migration of groundwater between the deep and intermediate native units at Wastebeds 9-11 is occurring limiting the downward vertical migration of COIs, which may aid in diluting any historically leachate-impacted groundwater with fresh groundwater. Dissolved COIs may migrate with the groundwater through the hydrogeologic units.

Comparatively, groundwater flow from the deep native unit to bedrock is limited with the till acting as a confining layer. Some dissolved COIs are migrating with the groundwater into the bedrock.

Surrounding Affected Area

While no Solvay waste was observed in the SAA, Site-related COIs have been detected in the SAA and NMC. From Wastebeds 9-11, the COIs are transported via shallow groundwater that migrates radially into NMC, intermediate groundwater that migrates vertically upwards into NMC, and surface water runoff. The remaining portions of the SAA likely receive radial shallow groundwater flow and surface water runoff, where NMC does not serve as a physical divide (*i.e.*, portions of CAM-21, Hudson Farm property, *etc.*; **Appendix L**.). The impact in NMC is observed by the decrease in the quality of macroinvertebrate habitat as it progresses towards and passes along Wastebeds 9-11 due to stream channelization and calcite deposition.

8. CONCLUSIONS

Review of the data collected during the Closure Investigation and previous investigations suggests that the Site has had an impact to areas adjacent to the Site. The data collected during these investigations suggest that materials may have been co-mingled with the Solvay waste slurry that was deposited within the wastebeds. These investigations also indicate that the majority of the observed impacts to the surrounding area occurred during the active operation of these wastebeds (1944 to 1985) and were primarily due to historic discharges and leaching of inorganic materials from the wastebeds. The data collected during the Closure Investigation support NYSDEC's classification of the site as "Class 3" (does not pose a significant threat to the environment or public health) and USEPA's determination in 2011 that no action under CERCLA is required and that no Superfund action will be taken for the Site. The Final Closure Plan will include measures to address those impacts, through implementation of a cover system to minimize infiltration, and through IMs associated with seep mitigation, leachate collection, and berm stabilization.

- The Site geology consists of five distinct units:
  - Solvay waste fill material
  - Prograded glaciolacustrine sequence of deposits (silt and clay)
  - Poorly sorted mixed glaciofluvial unit (mixed NMC)
  - Till
  - Bedrock
- Glaciolacustrine unit silt and clays are discontinuous below Wastebeds 9-15.
- The Site hydrogeology consists of seven units:
  - Shallow fill unit
  - Glaciolacustrine unit
  - Mixed NMC unit
    - Shallow native (upper portion of NMC deposits)
    - Intermediate native (center portion of NMC deposits)
    - Deep native (lower portion of NMC deposits)
  - Till
  - Bedrock
- The low flow zones (confining units) are the glaciolacustrine silt and clay layer and the till.
- Hydraulic conductivity ranges for the groundwater zones are:
  - Shallow fill: 0.006 – 14.27 ft/day
  - Glaciolacustrine silt and clay: 0.028 – 2.0 ft/day
  - Mixed NMC shallow native: 0.023 – 822 ft/day
  - Mixed NMC intermediate native: 0.149 – 89 ft/day
  - Mixed NMC deep native: 1.021 – 788 ft/day
  - Till: 0.737 ft/day
  - Bedrock: 0.00035 – 52.3 ft/day
- Shallow fill groundwater generally flows radially outward from the wastebeds or vertically downward.

- The glaciolacustrine unit acts as a confining unit, where present, limiting vertical migration of Solvay waste/shallow fill groundwater.
- The mixed NMC shallow native groundwater flow is generally towards NMC. It also discharges to the former gravel pit adjacent to Wastebed 13 and the Interbed Area between Wastebeds 9/10 and 11.
- The mixed NMC intermediate native groundwater unit is hydraulically connected to both the mixed NMC shallow and deep native units.
- Mixed NMC intermediate and deep native groundwater flow generally flows towards Onondaga Lake following the regional flow along the NMC Valley.
- Till groundwater flow is considered to negligible due to its low permeability.
- Bedrock groundwater flow likely occurs through bedding planes and secondary fractures and flows towards Onondaga Lake following the regional flow of the NMC Valley.
- Four types of groundwater water types were identified.
  - Wastebed leachate
  - Native overburden/fresh groundwater
  - Mixture of leachate and native overburden/fresh groundwater
  - Native halite brine
- Three unknown types of bedrock groundwater types were also "identified" but had no definitive signature.
- The predominant COIs in Site media and NMC due to Site-related constituents are inorganic parameters related to Solvay waste (calcium, sodium, and chloride).
- Seepage of leachate from the wastebeds along the berms and portions of the NMC bank was evident in some areas by the lack of or stressed vegetation and/or the presence of a calcite crust.
- Organic constituents in groundwater are detected in their greatest concentrations and frequency around Wastebed 13.
- The presence of the former gravel pit under Wastebed 13 likely created a pathway for the migration of organic compounds within the mixed NMC geologic unit predominantly at the time the wastebed was being filled.
- Organic constituents are more prevalent in wells that have a leachate or leachate/native mixture groundwater signature.
- Organic constituents in Site media and NMC are likely related to releases associated with operation of the wastebeds, upstream sources, and other anthropogenic sources (*e.g.*, atmospheric deposition).
- Organic constituents are considered to have minimal impact on areas adjacent to the wastebeds, NMC, and Onondaga Lake.
- Impacts to the SAA and NMC are limited to precipitation of calcite and the discharge of chloride.
- The Phase 1 SAA indicated that no Solvay waste was found in the areas adjacent to the wastebeds.
- The Phase 1 SAA macroinvertebrate sampling indicated that NMC habitat quality decreases as the creek flows from the Amboy Dam to the Geddes Brook confluence due to stream channelization and calcite deposition.
- No further action is warranted for much of the SAA wetlands and floodplains under the Order on Consent. The following SAA components will be further evaluated in the SAA Restoration Plan (NYSDEC 2017):
  - NMC, downstream of the Amboy Dam and upstream of NMC/Geddes Brook Remedial Site OU 1, including NMC banks, as defined in 6 NYCRR Part 608.1(a)
  - Iron Brook

  - Outfall 019 drainage ditch
  - Former gravel pit
  - Ponded area north of Wastebed 11
  - NYS wetland CAM-26, and
  - Groundwater underlying the floodplains.
- Based on the findings of the Closure Investigation, the following areas of the Site warrant evaluation as part of the Site Closure Plan
  - Groundwater and ponded area north of Wastebed 11
  - Groundwater and seeps north of Wastebed 12
  - Groundwater and seeps west of Wastebed 14
  - Retention ponds
  - Iron Brook
  - Outfall 017.

The nature and extent of COIs are defined sufficiently to complete a Closure Plan for the Site, and no further characterization is warranted at this time.

9. FUTURE ACTIVITIES

In accordance with the Consent Order, the Site Closure Plan and Off-Site SAA Restoration Plan will be submitted to NYSDEC within 90 days following NYSDEC approval of this report. Also in accordance with the Consent Order and the Closure Investigation Work Plan (O'Brien & Gere, 2011a), the quarterly sampling of groundwater, surface water, and leachate will continue until approval of the Site Closure Plan, Off-Site SAA Restoration Plan, and associated monitoring plans. Also, the IMs and EBPs identified in the Work Plan and Consent Order will continue as needed. A brief summary of the IMs and EBPs is provided below.

As discussed in Section 2, Honeywell has designed and implemented several IMs at Wastebeds 9-15, including seep mitigation systems, improvements to the LCCS, and construction of berm stabilization and erosion control measures. Each of these IMs has reduced the migration of Solvay waste constituents off-site. Implementation of the phased seep mitigation measures continues with ongoing evaluation of seep mitigation options for the area north of Wastebed 11.

As discussed in Section 2, Honeywell has installed a shrub willow ET cover system on Wastebed 14. Monitoring and maintenance of the shrub willow plots will continue until approval of the Site Closure Plan and associated monitoring plan.

Honeywell has completed five of the seven EBPs outlined in the Consent Order. Honeywell will continue to coordinate with NYSDEC to progress the remaining two EBPs: design and construction of a boat launch on the southwest shore of Onondaga Lake, and funding of the Onondaga Lake Partnership's mudboil program.

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Tables

Table 1
Honeywell
Wastebeds 9-15 Closure Investigation
Ninemile Creek Tracer Test
Method 6010/E300 Anions and Cations Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3094-01 Test #1 Background 9/25/2012 Regular sample	SB915-3094-07 Test #2 Background 9/27/2012 Regular sample	SB915-3096-09 Tracer Test #4 Background 10/11/2012 Regular sample	SB915-3095-07 Tracer Test #3 Background 10/5/2012 Regular sample	SB915-3094-02 CP-02 9/25/2012 Regular sample	SB915-3094-03 CP-04 9/25/2012 Regular sample	SB915-3094-04 CP-06 9/25/2012 Regular sample
BROMIDE	NC	NC	mg/L	0.20U	0.20U	0.20U	0.50U	0.20U	0.20U	0.20U
CALCIUM	NC	NC	mg/L	190	190	230	190	190	190	190
CHLORIDE	NC	NC	mg/L	62	62	85	61	62	61	62
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U	50U	50U	50U
POTASSIUM	NC	NC	mg/L	50U	50U	50U	50U	50U	50U	50U
SODIUM	NC	NC	mg/L	50U	50U	58	50U	50U	50U	50U
SULFATE	NC	NC	mg/L	360	350	300	360	370	360	360

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L.

Table 1
Honeywell
Wastebeds 9-15 Closure Investigation
Ninemile Creek Tracer Test
Method 6010/E300 Anions and Cations Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3094-05 CP-08 9/25/2012 Regular sample	SB915-3094-06 CP-10 9/25/2012 Regular sample	SB915-3094-08 CP-12 9/27/2012 Regular sample	sb915-3094-09 CP-14 9/27/2012 Regular sample	SB915-3094-10 CP-16 9/27/2012 Regular sample	SB915-3094-11 CP-18 9/27/2012 Regular sample	SB915-3094-12 CP-20 9/27/2012 Regular sample
BROMIDE	NC	null	mg/L	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U
CALCIUM	null	null	mg/L	200	200	200	200	190	190	190
CHLORIDE	null	null	mg/L	61	62	61	61	61	56	62
MAGNESIUM	null	null	mg/L	50U	50U	50U	50U	50U	50U	50U
POTASSIUM	null	null	mg/L	50U	50U	50U	50U	50U	50U	50U
SODIUM	null	null	mg/L	50U	50U	50U	50U	50U	50U	50U
SULFATE	null	null	mg/L	360	350	350	350	350	350	350

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L.

Table 1
Honeywell
Wastebeds 9-15 Closure Investigation
Ninemile Creek Tracer Test
Method 6010/E300 Anions and Cations Data

			Field Sample ID	SB915-3095-01	SB915-3095-02	SB915-3095-03	SB915-3095-04	SB915-3095-05	SB915-3095-06	SB915-3096-01
	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Location Sample Date Sample Purpose	CP-22 10/5/2012 Regular sample	CP-24 10/5/2012 Regular sample	CP-26 10/5/2012 Regular sample	CP-28 10/5/2012 Regular sample	CP-30 10/5/2012 Regular sample	CP-32 10/5/2012 Regular sample	CP-34 10/11/2012 Regular sample
Parameter Name			Units							
BROMIDE	NC	null	mg/L	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.20U
CALCIUM	null	null	mg/L	220	190	140	230	230	240	230
CHLORIDE	null	null	mg/L	62	64	95	74	76	89	110
MAGNESIUM	null	null	mg/L	50U	50U	50U	50U	50U	50U	50U
POTASSIUM	null	null	mg/L	50U	50U	50U	50U	50U	50U	50U
SODIUM	null	null	mg/L	50U	50U	50U	50U	50U	53	57
SULFATE	null	null	mg/L	330	360	310	330	330	350	340

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L.

Table 1
Honeywell
Wastebeds 9-15 Closure Investigation
Ninemile Creek Tracer Test
Method 6010/E300 Anions and Cations Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3096-02 CP-36 10/11/2012 Regular sample	SB915-3096-03 CP-38 10/11/2012 Regular sample	SB915-3096-04 CP-40 10/11/2012 Regular sample	SB915-3096-05 CP-42 10/11/2012 Regular sample	sb915-3096-06 CP-44 10/11/2012 Regular sample	SB915-3096-07 CP-46 10/11/2012 Regular sample	SB915-3096-08 CP-48 10/11/2012 Regular sample
BROMIDE	NC	null	mg/L	0.20U	0.20U	0.20U	0.20U	1.9	1.9	0.20U
CALCIUM	null	null	mg/L	250	160	240	300	330	270	260
CHLORIDE	null	null	mg/L	120	120	190	480	460	460	460
MAGNESIUM	null	null	mg/L	50U	50U	50U	50U	50U	50U	50U
POTASSIUM	null	null	mg/L	50U	50U	50U	50U	50U	50U	50U
SODIUM	null	null	mg/L	66	50U	81	140	160	120	120
SULFATE	null	null	mg/L	330	330	320	310	310	320	320

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L.

Table 2
Honeywell
Wastebeds 9-15 Closure Investigation
Monitoring Well Groundwater Elevations

Location ID	Site	Unit	Easting	Northing	Ground Surface Elev (ft)	Top of Casing Elev (ft)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Top of Screen Elev (ft)		Bottom of Screen Elev (ft)	Screen Midpoint Elev (ft)	DTW April 2012	GW Elevation April 2012	Specific Gravity April 2012	Equivalent Fresh Water Head April 2012
SB915-IMW-01S	Wastebeds 9-15	S	912220.3	1121196.6	376.76	378.53	8.00	-	18.00	368.76	-	358.76	363.76	7.55	370.98	1.014	371.08
SB915-IMW-02S	Wastebeds 9-15	S	911975.8	1121977.8	376.80	378.48	6.00	-	16.00	370.80	-	360.80	365.80	4.53	373.95	1.023	374.14
SB915-IMW-03S	Wastebeds 9-15	S	911611.2	1122557.5	377.30	379.35	9.00	-	24.00	368.30	-	353.30	360.80	7.77	371.58	1.018	371.78
SB915-IMW-04S	Wastebeds 9-15	S	911192.1	1122857.2	375.99	379.57	6.00	-	16.00	369.99	-	359.99	364.99	8.71	370.86	1.004	370.88
SB915-IMW-05S	Wastebeds 9-15	S	911621.2	1122185.7	376.86	378.81	10.00	-	20.00	366.86	-	356.86	361.86	4.51	374.30	1.010	374.42
SB915-IMW-06S	Wastebeds 9-15	S	911872.3	1121780.9	376.88	378.89	4.00	-	14.00	372.88	-	362.88	367.88	4.06	374.83	1.012	374.91
SB915-MW-01	Wastebeds 9-15	S	911682.9	1118587.7	400.39	402.57	6.17	-	16.17	394.22	-	384.22	389.22	12.11	390.46	1.001	390.47
SB915-MW-03	Wastebeds 9-15	S	912312.1	1119305.1	384.42	386.42	24.35	-	34.35	360.07	-	350.07	355.07	6.55	379.87	1.008	380.07
SB915-MW-04	Wastebeds 9-15	S	912377.7	1120043.4	377.86	379.02	11.95	-	21.95	365.91	-	355.91	360.91	5.61	373.41	1.016	373.61
SB915-MW-100S	Wastebeds 9-15 SCA	S	907035.0	1121705.3	394.71	396.74	22.00	-	32.00	372.71	-	362.71	367.71	23.73	373.01	1.014	373.09
SB915-MW-101S	Wastebeds 9-15 SCA	S	907379.1	1121602.9	395.12	397.15	22.00	-	32.00	373.12	-	363.12	368.12	24.21	372.94	1.004	372.96
SB915-MW-102S	Wastebeds 9-15 SCA	S	908344.8	1121283.7	393.38	395.81	20.00	-	30.00	373.38	-	363.38	368.38	23.23	372.58	1.016	372.65
SB915-MW-103S	Wastebeds 9-15 SCA	S	906152.5	1118994.3	440.45	443.04	68.00	-	78.00	372.45	-	362.45	367.45	68.20	374.84	1.006	374.89
SB915-MW-104I	Wastebeds 9-15	I	904888.5	1117766.1	400.90	402.84	62.00	-	72.00	338.90	-	328.90	333.90	27.56	375.28	1.012	375.78
SB915-MW-104S	Wastebeds 9-15	S	904890.9	1117753.9	400.60	402.98	14.00	-	24.00	386.60	-	376.60	381.60	7.93	395.05	1.064	395.91
SB915-MW-105BR	Wastebeds 9-15	BR	907632.1	1116990.1	463.30	464.66	48.40	-	63.40	414.90	-	399.90	407.40	52.42	412.24	1.001	412.25
SB915-MW-105S	Wastebeds 9-15	S	907627.9	1116988.1	463.40	465.15	4.00	-	14.00	459.40	-	449.40	454.40	Dry	NA	NA	NA
SB915-MW-106I	Wastebeds 9-15	I	911442.7	1119949.0	379.70	381.92	34.00	-	44.00	345.70	-	335.70	340.70	8.67	373.25	1.002	373.32
SB915-MW-106S	Wastebeds 9-15	S	911443.7	1119940.0	379.60	381.69	8.00	-	18.00	371.60	-	361.60	366.60	5.76	375.93	1.008	376.00
SB915-MW-107BR	Wastebeds 9-15	BR	910460.3	1120723.4	377.00	379.09	120.00	-	130.00	257.00	-	247.00	252.00	19.20	359.89	1.130	373.92
SB915-MW-107D	Wastebeds 9-15	D	910476.4	1120718.6	377.00	378.77	96.00	-	106.00	281.00	-	271.00	276.00	9.09	369.68	1.002	369.87
SB915-MW-107I	Wastebeds 9-15	I	910488.0	1120715.2	376.70	378.49	46.00	-	56.00	330.70	-	320.70	325.70	7.52	370.97	1.003	371.11
SB915-MW-107S	Wastebeds 9-15	S	910497.4	1120710.1	377.00	378.89	10.00	-	20.00	367.00	-	357.00	362.00	5.25	373.64	1.028	373.97
SB915-MW-108BR	Wastebeds 9-15	BR	908744.2	1123161.5	398.20	400.51	83.00	-	93.00	315.20	-	305.20	310.20	19.12	381.39	1.002	381.53
SB915-MW-108D	Wastebeds 9-15	D	908745.2	1123148.7	397.50	400.42	52.00	-	62.00	345.50	-	335.50	340.50	29.12	371.30	1.006	371.48
SB915-MW-108S	Wastebeds 9-15	S	908746.2	1123136.7	397.90	400.24	15.00	-	25.00	382.90	-	372.90	377.90	23.71	376.53	1.002	376.53
SB915-MW-109I	Wastebeds 9-15	I	909836.8	1123405.2	384.10	385.86	43.00	-	53.00	341.10	-	331.10	336.10	16.53	369.33	1.012	369.73
SB915-MW-109S	Wastebeds 9-15	S	909826.4	1123406.6	384.10	386.03	4.00	-	14.00	380.10	-	370.10	375.10	3.08	382.95	1.020	383.11
SB915-MW-110S	Wastebeds 9-15	S	910978.3	1123187.4	377.30	379.00	8.00	-	18.00	369.30	-	359.30	364.30	3.76	375.24	1.005	375.29
SB915-MW-111BR	Wastebeds 9-15	BR	912000.0	1123138.4	375.70	377.35	131.00	-	141.00	244.70	-	234.70	239.70	12.63	364.72	1.061	372.35
SB915-MW-111D	Wastebeds 9-15	D	911988.5	1123140.7	375.60	377.42	87.00	-	97.00	288.60	-	278.60	283.60	6.19	371.23	1.002	371.41
SB915-MW-111I	Wastebeds 9-15	I	911977.5	1123143.2	375.30	377.54	54.00	-	64.00	321.30	-	311.30	316.30	8.00	369.54	1.022	370.71
SB915-MW-111S	Wastebeds 9-15	S	911966.1	1123145.9	375.60	377.62	13.00	-	23.00	362.60	-	352.60	357.60	8.32	369.30	1.032	369.67
SB915-MW-112I	Wastebeds 9-15	I	914048.0	1122805.9	383.90	385.91	50.00	-	60.00	333.90	-	323.90	328.90	15.98	369.93	1.041	371.61
SB915-MW-112S	Wastebeds 9-15	S	914035.7	1122808.0	383.80	385.77	10.00	-	20.00	373.80	-	363.80	368.80	12.54	373.23	1.004	373.25
SB915-MW-113S	Wastebeds 9-15	S	915171.7	1122137.9	375.20	377.07	18.00	-	28.00	357.20	-	347.20	352.20	10.80	366.27	1.006	366.35
SB915-MW-114BR	Wastebeds 9-15	BR	910193.2	1117515.7	459.30	461.78	27.00	-	37.00	432.30	-	422.30	427.30	Dry	NA	NA	NA
SB915-MW-115BR	Wastebeds 9-15	BR	912390.0	1120039.7	378.08	380.35	79.00	-	89.00	299.08	-	289.08	294.08	8.45	371.90	1.008	372.52
SB915-MW-116S	Wastebeds 9-15	S	911666.5	1120199.4	375.20	376.86	8.00	-	18.00	367.20	-	357.20	362.20	5.39	371.47	1.016	371.62
SB915-MW-117S	Wastebeds 9-15	S	913006.5	1119726.8	379.80	381.51	14.00	-	24.00	365.80	-	355.80	360.80	8.14	373.37	1.008	373.47
SB915-MW-118BR	Wastebeds 9-15	BR	911507.1	1119379.6	380.50	382.35	47.00	-	57.00	333.50	-	323.50	328.50	2.61	379.74	1.002	379.84
SB915-MW-118S	Wastebeds 9-15	S	911505.3	1119375.5	380.50	382.59	4.00	-	14.00	376.50	-	366.50	371.50	4.45	378.14	1.040	378.41
SB915-MW-36D	Wastebeds 9-15	D	907402.3	1118700.9	454.26	454.82	108.00	-	118.00	346.26	-	336.26	341.26	80.80	374.02	1.006	374.22
SB915-MW-36I	Wastebeds 9-15	SOLW	907408.6	1118694.3	453.41	456.19	52.00	-	62.00	401.41	-	391.41	396.41	32.82	423.37	1.004	423.48
SB915-MW-36S	Wastebeds 9-15	SOLW	907404.8	1118697.2	453.56	455.80	8.00	-	18.00	445.56	-	435.56	440.56	13.53	442.27	1.002	442.28
SB915-MW-40S	Wastebeds 9-15	SOLW	914447.4	1122218.7	436.24	439.64	35.00	-	45.00	401.24	-	391.24	396.24	41.82	397.82	1.006	397.84
SB915-MW-42D	Wastebeds 9-15	D	913102.1	1121517.6	435.59	437.28	122.00	-	132.00	313.59	-	303.59	308.59	68.18	369.10	1.040	371.52
SB915-MW-42I	Wastebeds 9-15	SOLW	913108.5	1121520.1	435.63	437.85	59.00	-	69.00	376.63	-	366.63	371.63	45.53	392.32	1.051	393.37
SB915-MW-42S	Wastebeds 9-15	SOLW	913115.5	1121523.1	435.70	437.39	30.00	-	40.00	405.70	-	395.70	400.70	37.26	400.13	1.024	400.18
SB915-MW-43S	Wastebeds 9-15	SOLW	912821.9	1122526.7	436.77	439.44	35.00	-	45.00	401.77	-	391.77	396.77	38.15	401.29	1.004	401.30
SB915-MW-50S	Wastebeds 9-15	SOLW	910255.4	1122740.3	436.29	438.52	25.00	-	35.00	411.29	-	401.29	406.29	34.92	403.60	1.002	403.60
SB915-MW-51S	Wastebeds 9-15	SOLW	910495.3	1122148.3	438.65	440.46	25.00	-	35.00	413.65	-	403.65	408.65	34.02	406.44	1.005	406.45
SB915-MW-53D	Wastebeds 9-15	D	909265.2	1123027.6	435.92	437.96	110.00	-	120.00	325.92	-	315.92	320.92	67.79	370.17	1.004	370.37
SB915-MW-53I	Wastebeds 9-15	SOLW	909254.4	1123030.9	436.43	437.72	61.50	-	71.50	374.93	-	364.93	369.93	43.82	393.90	1.072	395.62
SB915-MW-53S	Wastebeds 9-15	SOLW	909244.6	1123033.7	436.25	438.04	25.00	-	35.00	411.25	-	401.25	406.25	29.62	408.42	1.008	408.44
SB915-MW-59S	Wastebeds 9-15	S	909681.4	1122233.7	378.80	380.82	10.00	-	20.00	368.80	-	358.80	363.80	12.54	368.28	1.014	368.35
SB915-MW-60S	Wastebeds 9-15	S	909452.0	1122405.6	379.37	381.26	10.00	-	20.00	369.37	-	359.37	364.37	12.06	369.20	1.018	369.28
SB915-MW-70D	Wastebeds 9-15	D	910102.9	1121886.8	383.90	385.90	53.00	-	63.00	330.90	-	320.90	325.90	18.79	367.11	1.046	369.01
SB915-MW-70S	Wastebeds 9-15	S	910108.2	1121886.5	384.50	385.83	15.00	-	25.00	369.50	-	359.50	364.50	17.91	367.92	1.008	367.95
SB915-MW-84D	Wastebeds 9-15	D	909884.0	1121843.6	379.99	382.10	54.50	-	64.50	325.49	-	315.49	320.49	14.29	367.81	1.018	368.66
SB915-MW-84S	Wastebeds 9-15	S	909881.2	1121847.5	379.73	381.70	15.00	-	25.00	364.73	-	354.73	359.73	14.02	367.68	1.003	367.71
SB915-MW-85D	Wastebeds 9-15	D	910051.0	1121753.9	378.00	377.16	67.50	-	77.50	310.50	-	300.50	305.50	13.04	364.12	1.064	367.87
SB915-MW-85I	Wastebeds 9-15	I	910046.5	1121757.9	377.90	382.39	44.00	-	54.00	333.90	-	323.90	328.90	12.46	369.93	1.034	371.32
SB915-MW-85S	Wastebeds 9-15	S	910038.7	1121744.5	377.90	379.86	16.00	-	26.00	361.90	-	351.90	356.90	11.75	368.11	1.018	368.32
SB915-MW-87BR	Wastebeds 9-15 SCA	BR	904766.7	1119525.8	400.91	403.29	119.00	-	129.00	281.91	-	271.91	276.91	29.85	373.44	1.032	376.53
SB915-MW-87I	Wastebeds 9-15 SCA	I	904758.3	1119523.6	402.10	403.91	64.00	-	74.00	338.10	-	328.10	333.10	28.85	375.06	1.006	375.31
SB915-MW-87S	Wastebeds 9-15-SCA	S	904761.5	1119535.3	401.21	403.58	25.00	-	35.00	376.21	-	366.21	371.21	28.88	374.70	1.002	374.71
SB915-MW-88BR	Wastebeds 9-15 SCA	BR	905107.2	1120731.1	400.93	402.47	100.00	-	110.00	300.93	-	290.93	295.93	28.89	373.58	1.020	375.13
SB915-MW-88D	Wastebeds 9-15 SCA	D	905102.4	1120727.2	400.48	402.73	59.00	-	69.00	341.48	-	331.48	336.48	28.45	374.28	1.006	374.51
SB915-MW-88I	Wastebeds 9-15 SCA	I	905090.9	1120718.5	400.69	403.43	42.00	-	52.00	358.69	-	348.69	353.69	28.89	374.54	1.004	374.62
SB915-MW-88S	Wastebeds 9-15 SCA	S	905087.4	1120714.7	400.79	403.60	25.00	-	35.00	375.79	-	365.79	370.79	29.12	374.48	1.002	374.49
SB915-MW-89BR	Wastebeds 9-15 SCA	BR	906132.5	1121444.9	399.24	401.11	118.00	-	128.00	281.24	-	271.24	276.24	28.30	372.81	1.010	373.78
SB915-MW-89D	Wastebeds 9-15 SCA	D	906124.8	1121442.7	399.05	401.63	63.00	-	73.00	336.05	-	326.05	331.05	28.00	373.63	1.006	373.88
SB915-MW-89I	Wastebeds 9-15 SCA	I	906119.2	1121441.5	399.15	401.64	43.00	-	53.00	356.15	-	346.15	351.15	27.88	373.76	1.004	373.85
SB915-MW-89S	Wastebeds 9-15 SCA	S	906111.8	1121439.5	399.10	401.57	22.00	-	32.00	377.10	-	367.10	372.10	27.85	373.72	1.002	373.73
SB915-MW-89SR	Wastebeds 9-15 SCA	S	906106.8	1121438.8	399.07	401.56	10.00	-	20.00	389.07	-	379.07	384.07	Dry	NA	NA	NA
SB915-MW-90BR	Wastebeds 9-15 SCA	BR	907636.2	1121519.8	395.97	398.26	119.50	-	129.50	276.47	-	266.47	271.47	27.31	370.95	1.026	373.54
SB915-MW-90I	Wastebeds 9-15 SCA	I	907667.2	1121509.6	395.74	398.85	42.00	-	52.00	353.74	-	343.74	348.74	28.84	370.01	1.004	370.10
SB915-MW-90S	Wastebeds 9-15-SCA	S	907671.1	1121509.0	395.50	397.47	22.00	-	32.00	373.50	-	363.50	368.50	24.45	373.02	1.002	373.02
SB915-MW-91BR	Wastebeds 9-15 SCA	BR	908304.6	1119995.6	447.30	450.24	197.00	-	207.00	250.30	-	240.30	245.30	85.35	364.89	1.086	375.18
SB915-MW-91D	Wastebeds 9-15 SCA	D	908297.6	1119985.4	447.25	449.64	125.00	-	135.00	322.25	-	312.25	317.25	76.37	373.27	1.004	373.50
SB915-MW-91I	Wastebeds 9-15 SCA	D	908291.6	1119975.8	447.17	449.99	115.00	-	125.00	332.17	-	322.17	327.17	76.62	373.37	1.004	373.56
SB915-MW-91S	Wastebeds 9-15 SCA	SOLW	908294.3	1119980.5	447.30	449.87	21.00	-	41.00	426.30	-	406.30	416.30	23.14	426.73	1.024	426.98
SB915-MW-91SN	Wastebeds 9-15 SCA	S	908300.4	1119990.1	447.68	450.47	78.00	-	88.00	369.68	-	359.68	364.68	76.98	373.49	1.015	373.62
SB915-MW-92BR	Wastebeds 9-15 SCA	BR	907275.4	1119280.1	447.79	449.62	184.00	-	194.00	263.79	-	253.79	258.79	77.78	371.84	1.032	375.46
SB915-MW-92D	Wastebeds 9-15 SCA	I	907281.7	1119280.3	447.38	449.85	92.00	-	102.00	355.38	-	345.38	350.38	75.86	373.99	1.002	374.04
SB915-MW-92I	Wastebeds 9-15 SCA	I	907287.3	1119281.5	447.53	449.59	69.00	-	79.00	378.53	-	368.53	373.53	75.63	373.96	1.021	374.01
SB915-MW-92S	Wastebeds 9-15 SCA	SOLW	907293.6	1119282.7	447.43	449.73	28.00	-	48.00	419.43	-	399.43	409.43	28.07	421.66	1.028	422.00
SB915-MW-93BR	Wastebeds 9-15 SCA	BR	908865.2	1121130.5	391.63	393.79	142.00	-	152.00	249.63	-	239.63	244.63	29.34	364.45	1.074	373.31
SB915-MW-93D	Wastebeds 9-15 SCA	D	908882.7	1121124.8	391.71	393.76	52.00	-	62.00	339.71	-	329.71	334.71	22.63	371.13	1.004	371.28
SB915-MW-93I	Wastebeds 9-15 SCA	I	908895.9	1121121.0	391.85	394.57	39.00	-	49.00	352.85	-	342.85	347.85	23.45	371.12	1.008	371.30
SB915-MW-93S	Wastebeds 9-15 SCA	S	908888.9	1121122.9	391.76	394.15	22.00	-	32.00	369.76	-	359.76	364.76	23.07	371.08	1.040	371.33
SB915-MW-94S	Wastebeds 9-15 SCA	S	904859.3	1118797.1	401.02	403.50	20.00	-	30.00	381.02	-	371.02	376.02	22.66	380.84	1.000	380.84
SB915-MW-95S	Wastebeds 9-15 SCA	S	904825.3	1119977.8	402.20	403.99	26.00	-	36.00	376.20	-	366.20	371.20	28.80	375.19	1.008	375.23
SB915-MW-96S	Wastebeds 9-15 SCA	S	904823.7	1120452.5	402.13	404.23	26.00	-	36.00	376.13	-	366.13	371.13	29.57	374.66	1.019	374.74
SB915-MW-97S	Wastebeds 9-15 SCA	S	905388.3	1120984.9	399.81	402.06	25.00	-	35.00	374.81	-	364.81	369.81	27.85	374.21	1.030	374.35
SB915-MW-98S	Wastebeds 9-15 SCA	S	905690.7	1121281.9	397.87	399.94	24.00	-	34.00	373.87	-	363.87	368.87	25.95	373.99	1.002	374.00
SB915-MW-99S	Wastebeds 9-15 SCA	S	906540.8	1121549.1	396.63	399.06	22.00	-	32.00	374.63	-	364.63	369.63	26.14	372.92	1.054	373.15
SB915-MWB-01D	Wastebeds 9-15	D	909558.9	1121719.1	376.57	378.39	79.36	-	89.36	297.21	-	287.21	292.21	9.35	369.04	1.042	372.26
SB915-MWB-01S	Wastebeds 9-15	S	909555.1	1121713.8	376.80	378.92	17.80	-	22.80	359.00	-	354.00	356.50	9.79	369.13	1.004	369.18

Dry - Monitoring well is dry, no water
NA - Not available
NA[1] - Not enough water for Specific Gravity
NA[2] - Monitoring Well is obstructed
NA[3] - Monitoring Well is broken

Table 2
Honeywell
Wastebeds 9-15 Closure Investigation
Monitoring Well Groundwater Elevations

Location ID	Site	Unit	Easting	Northing	Ground Surface Elev (ft)	Top of Casing Elev (ft)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Top of Screen Elev (ft)		Bottom of Screen Elev (ft)	Screen Midpoint Elev (ft)	DTW April 2012	GW Elevation April 2012	Specific Gravity April 2012	Equivalent Fresh Water Head April 2012
SB915-PZ-07D	Wastebeds 9-15	SOLW	910099.0	1120019.5	445.18	447.22	53.00	-	63.00	392.18	-	382.18	387.18	NA	NA	NA	NA
SB915-PZ-07I	Wastebeds 9-15	SOLW	910100.9	1120024.2	445.20	447.05	30.00	-	40.00	415.20	-	405.20	410.20	NA	NA	NA	NA
SB915-PZ-07N	Wastebeds 9-15	S	910098.1	1120015.5	445.06	447.27	68.00	-	78.00	377.06	-	367.06	372.06	33.03	414.24	1.048	416.27
SB915-PZ-07S	Wastebeds 9-15	SOLW	910104.6	1120028.1	445.06	446.90	8.00	-	18.00	437.06	-	427.06	432.06	NA	NA	NA	NA
SB915-WB-01L	Wastebeds 9-15	D	902386.1	1116879.9	403.43	403.12	69.80	-	74.80	333.63	-	328.63	331.13	24.71	378.41	1.000	378.41
SB915-WB-01U	Wastebeds 9-15	S	902290.2	1116863.6	403.40	403.00	34.00	-	39.00	369.40	-	364.40	366.90	24.76	378.24	1.002	378.26
SB915-WB-02L	Wastebeds 9-15	D	904753.1	1119513.2	401.92	402.33	94.00	-	104.00	307.92	-	297.92	302.92	29.63	372.70	1.034	375.07
SB915-WB-02U	Wastebeds 9-15	S	904741.3	1119497.0	400.53	402.73	33.00	-	43.00	367.53	-	357.53	362.53	27.38	375.35	1.002	375.38
SB915-WB-03L	Wastebeds 9-15	D	904631.3	1121623.9	400.92	402.44	66.00	-	76.00	334.92	-	324.92	329.92	28.30	374.14	1.008	374.49
SB915-WB-03U	Wastebeds 9-15	S	904626.0	1121621.5	401.00	403.63	33.20	-	43.20	367.80	-	357.80	362.80	29.18	374.45	1.006	374.52
SB915-WB-04L	Wastebeds 9-15	D	907660.0	1121512.5	395.89	397.46	89.00	-	99.00	306.89	-	296.89	301.89	24.79	372.67	1.010	373.38
SB915-WB-04U	Wastebeds 9-15	S	907654.4	1121514.0	395.83	398.35	28.80	-	38.80	367.03	-	357.03	362.03	25.36	372.99	1.002	373.01
SB915-WB-05L	Wastebeds 9-15	D	910619.4	1121728.9	385.32	387.61	110.00	-	120.00	275.32	-	265.32	270.32	21.44	366.17	1.076	373.45
SB915-WB-05M	Wastebeds 9-15	I	910605.7	1121733.6	385.56	387.73	57.00	-	62.00	328.56	-	323.56	326.06	19.37	368.36	1.013	368.91
SB915-WB-05R	Wastebeds 9-15	BR	910631.0	1121725.2	385.09	387.39	146.50	-	156.10	238.59	-	228.99	233.79	25.80	361.59	1.115	376.29
SB915-WB-05U	Wastebeds 9-15	S	910613.7	1121731.2	385.41	387.90	6.80	-	11.80	378.61	-	373.61	376.11	11.02	376.88	1.010	376.89
SB915-WB-06	Wastebeds 9-15	D	914162.4	1123089.7	382.30	383.38	69.80	-	79.80	312.50	-	302.50	307.50	11.94	371.44	1.000	371.44
SB915-WB-07L	Wastebeds 9-15	D	912147.5	1121340.2	376.71	378.78	72.00	-	77.00	304.71	-	299.71	302.21	9.87	368.91	1.032	371.04
SB915-WB-07R	Wastebeds 9-15	BR	912140.1	1121354.2	376.33	378.08	103.00	-	113.00	273.33	-	263.33	268.33	15.07	363.01	1.105	372.95
SB915-WB-07U	Wastebeds 9-15	S	912145.9	1121344.2	376.61	379.33	48.00	-	53.00	328.61	-	323.61	326.11	8.11	371.22	1.020	372.13
SB915-WB-09L	Wastebeds 9-15	D	914893.2	1121705.4	375.10	377.25	64.00	-	74.00	311.10	-	301.10	306.10	5.69	371.56	1.008	372.08
SB915-WB-09U	Wastebeds 9-15	S	914906.4	1121703.1	374.64	377.75	10.00	-	20.00	364.64	-	354.64	359.64	10.42	367.33	NA[2]	NA
SB915-WB-10L	Wastebeds 9-15	D	913634.3	1121298.2	375.30	377.61	64.00	-	74.00	311.30	-	301.30	306.30	6.49	371.12	1.008	371.64
SB915-WB-10U	Wastebeds 9-15	S	913632.7	1121329.4	376.30	378.62	5.00	-	15.00	371.30	-	361.30	366.30	7.76	370.86	1.011	370.91
SB915-WB-15B/15S	Wastebeds 9-15	SOLW	905550.1	1116676.5	447.97	449.68	15.00	-	25.00	432.97	-	422.97	427.97	Dry	NA	NA	NA
WB18-MW-14BR	Wastebeds 1-8	BR	916007.0	1122830.3	374.82	375.85	100.00	-	130.00	274.82	-	244.82	259.82	8.94	366.91	1.078	375.27
WB18-MW-14D	Wastebeds 1-8	D	915989.1	1122852.8	374.84	375.97	50.00	-	60.00	324.84	-	314.84	319.84	6.02	369.95	1.034	371.66

Dry - Monitoring well is dry, no water
NA - Not available
NA[1] - Not enough water for Specific Gravity
NA[2] - Monitoring Well is obstructed
NA[3] - Monitoring Well is broken

Table 2
Honeywell
Wastebeds 9-15 Closure Investigation
Monitoring Well Groundwater Elevations

Location ID	Site	Unit	Easting	Northing	Ground Surface Elev (ft)	Top of Casing Elev (ft)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Top of Screen Elev (ft)		Bottom of Screen Elev (ft)	Screen Midpoint Elev (ft)	DTW July 2012	GW Elevation July 2012	Specific Gravity July 2012	Equivalent Fresh Water Head July 2012
SB915-IMW-01S	Wastebeds 9-15	S	912220.3	1121196.6	376.76	378.53	8.00	-	18.00	368.76	-	358.76	363.76	8.11	370.42	1.012	370.50
SB915-IMW-02S	Wastebeds 9-15	S	911975.8	1121977.8	376.80	378.48	6.00	-	16.00	370.80	-	360.80	365.80	5.02	373.46	1.024	373.65
SB915-IMW-03S	Wastebeds 9-15	S	911611.2	1122557.5	377.30	379.35	9.00	-	24.00	368.30	-	353.30	360.80	8.45	370.90	1.036	371.27
SB915-IMW-04S	Wastebeds 9-15	S	911192.1	1122857.2	375.99	379.57	6.00	-	16.00	369.99	-	359.99	364.99	9.46	370.11	1.008	370.15
SB915-IMW-05S	Wastebeds 9-15	S	911621.2	1122185.7	376.86	378.81	10.00	-	20.00	366.86	-	356.86	361.86	5.11	373.70	1.012	373.84
SB915-IMW-06S	Wastebeds 9-15	S	911872.3	1121780.9	376.88	378.89	4.00	-	14.00	372.88	-	362.88	367.88	4.82	374.07	1.012	374.14
SB915-MW-01	Wastebeds 9-15	S	911682.9	1118587.7	400.39	402.57	6.17	-	16.17	394.22	-	384.22	389.22	Dry	NA	NA	NA
SB915-MW-03	Wastebeds 9-15	S	912312.1	1119305.1	384.42	386.42	24.35	-	34.35	360.07	-	350.07	355.07	7.95	378.47	1.006	378.61
SB915-MW-04	Wastebeds 9-15	S	912377.7	1120043.4	377.86	379.02	11.95	-	21.95	365.91	-	355.91	360.91	7.46	371.56	1.018	371.75
SB915-MW-100S	Wastebeds 9-15 SCA	S	907035.0	1121705.3	394.71	396.74	22.00	-	32.00	372.71	-	362.71	367.71	24.45	372.29	1.004	372.31
SB915-MW-101S	Wastebeds 9-15 SCA	S	907379.1	1121602.9	395.12	397.15	22.00	-	32.00	373.12	-	363.12	368.12	24.90	372.25	1.012	372.31
SB915-MW-102S	Wastebeds 9-15 SCA	S	908344.8	1121283.7	393.38	395.81	20.00	-	30.00	373.38	-	363.38	368.38	23.84	371.97	1.004	371.98
SB915-MW-103S	Wastebeds 9-15 SCA	S	906152.5	1118994.3	440.45	443.04	68.00	-	78.00	372.45	-	362.45	367.45	69.24	373.80	1.006	373.84
SB915-MW-104I	Wastebeds 9-15	I	904888.5	1117766.1	400.90	402.84	62.00	-	72.00	338.90	-	328.90	333.90	28.64	374.20	1.062	376.70
SB915-MW-104S	Wastebeds 9-15	S	904890.9	1117753.9	400.60	402.98	14.00	-	24.00	386.60	-	376.60	381.60	8.49	394.49	1.004	394.54
SB915-MW-105BR	Wastebeds 9-15	BR	907632.1	1116990.1	463.30	464.66	48.40	-	63.40	414.90	-	399.90	407.40	58.04	406.62	1.002	406.63
SB915-MW-105S	Wastebeds 9-15	S	907627.9	1116988.1	463.40	465.15	4.00	-	14.00	459.40	-	449.40	454.40	Dry	NA	NA	NA
SB915-MW-106I	Wastebeds 9-15	I	911442.7	1119949.0	379.70	381.92	34.00	-	44.00	345.70	-	335.70	340.70	9.45	372.47	1.004	372.60
SB915-MW-106S	Wastebeds 9-15	S	911443.7	1119940.0	379.60	381.69	8.00	-	18.00	371.60	-	361.60	366.60	6.68	375.01	1.006	375.06
SB915-MW-107BR	Wastebeds 9-15	BR	910460.3	1120723.4	377.00	379.09	120.00	-	130.00	257.00	-	247.00	252.00	19.45	359.64	1.128	373.42
SB915-MW-107D	Wastebeds 9-15	D	910476.4	1120718.6	377.00	378.77	96.00	-	106.00	281.00	-	271.00	276.00	9.45	369.32	1.006	369.88
SB915-MW-107I	Wastebeds 9-15	I	910488.0	1120715.2	376.70	378.49	46.00	-	56.00	330.70	-	320.70	325.70	7.88	370.61	1.006	370.88
SB915-MW-107S	Wastebeds 9-15	S	910497.4	1120710.1	377.00	378.89	10.00	-	20.00	367.00	-	357.00	362.00	5.00	373.89	1.028	374.22
SB915-MW-108BR	Wastebeds 9-15	BR	908744.2	1123161.5	398.20	400.51	83.00	-	93.00	315.20	-	305.20	310.20	21.55	378.96	1.002	379.10
SB915-MW-108D	Wastebeds 9-15	D	908745.2	1123148.7	397.50	400.42	52.00	-	62.00	345.50	-	335.50	340.50	29.45	370.97	1.002	371.03
SB915-MW-108S	Wastebeds 9-15	S	908746.2	1123136.7	397.90	400.24	15.00	-	25.00	382.90	-	372.90	377.90	25.02	375.22	1.010	375.23
SB915-MW-109I	Wastebeds 9-15	I	909836.8	1123405.2	384.10	385.86	43.00	-	53.00	341.10	-	331.10	336.10	16.69	369.17	1.024	369.96
SB915-MW-109S	Wastebeds 9-15	S	909826.4	1123406.6	384.10	386.03	4.00	-	14.00	380.10	-	370.10	375.10	3.73	382.30	1.016	382.42
SB915-MW-110S	Wastebeds 9-15	S	910978.3	1123187.4	377.30	379.00	8.00	-	18.00	369.30	-	359.30	364.30	4.72	374.28	1.010	374.38
SB915-MW-111BR	Wastebeds 9-15	BR	912000.0	1123138.4	375.70	377.35	131.00	-	141.00	244.70	-	234.70	239.70	12.06	365.29	1.108	378.85
SB915-MW-111D	Wastebeds 9-15	D	911988.5	1123140.7	375.60	377.42	87.00	-	97.00	288.60	-	278.60	283.60	6.43	370.99	1.028	373.44
SB915-MW-111I	Wastebeds 9-15	I	911977.5	1123143.2	375.30	377.54	54.00	-	64.00	321.30	-	311.30	316.30	8.23	369.31	1.012	369.95
SB915-MW-111S	Wastebeds 9-15	S	911966.1	1123145.9	375.60	377.62	13.00	-	23.00	362.60	-	352.60	357.60	8.55	369.07	1.032	369.44
SB915-MW-112I	Wastebeds 9-15	I	914048.0	1122805.9	383.90	385.91	50.00	-	60.00	333.90	-	323.90	328.90	16.47	369.44	1.038	370.98
SB915-MW-112S	Wastebeds 9-15	S	914035.7	1122808.0	383.80	385.77	10.00	-	20.00	373.80	-	363.80	368.80	14.07	371.70	1.008	371.73
SB915-MW-113S	Wastebeds 9-15	S	915171.7	1122137.9	375.20	377.07	18.00	-	28.00	357.20	-	347.20	352.20	11.32	365.75	1.018	365.99
SB915-MW-114BR	Wastebeds 9-15	BR	910193.2	1117515.7	459.30	461.78	27.00	-	37.00	432.30	-	422.30	427.30	35.54	426.24	1.008	426.26
SB915-MW-115BR	Wastebeds 9-15	BR	912390.0	1120039.7	378.08	380.35	79.00	-	89.00	299.08	-	289.08	294.08	9.08	371.27	1.012	372.20
SB915-MW-116S	Wastebeds 9-15	S	911666.5	1120199.4	375.20	376.86	8.00	-	18.00	367.20	-	357.20	362.20	6.90	369.96	1.008	370.02
SB915-MW-117S	Wastebeds 9-15	S	913006.5	1119726.8	379.80	381.51	14.00	-	24.00	365.80	-	355.80	360.80	8.71	372.80	1.004	372.85
SB915-MW-118BR	Wastebeds 9-15	BR	911507.1	1119379.6	380.50	382.35	47.00	-	57.00	333.50	-	323.50	328.50	3.62	378.73	1.002	378.83
SB915-MW-118S	Wastebeds 9-15	S	911505.3	1119375.5	380.50	382.59	4.00	-	14.00	376.50	-	366.50	371.50	6.32	376.27	1.028	376.41
SB915-MW-36D	Wastebeds 9-15	D	907402.3	1118700.9	454.26	454.82	108.00	-	118.00	346.26	-	336.26	341.26	81.70	373.12	1.006	373.31
SB915-MW-36I	Wastebeds 9-15	SOLW	907408.6	1118694.3	453.41	456.19	52.00	-	62.00	401.41	-	391.41	396.41	39.44	416.75	1.030	417.36
SB915-MW-36S	Wastebeds 9-15	SOLW	907404.8	1118697.2	453.56	455.80	8.00	-	18.00	445.56	-	435.56	440.56	19.37	436.43	NA[1]	NA
SB915-MW-40S	Wastebeds 9-15	SOLW	914447.4	1122218.7	436.24	439.64	35.00	-	45.00	401.24	-	391.24	396.24	45.27	394.37	1.008	394.38
SB915-MW-42D	Wastebeds 9-15	D	913102.1	1121517.6	435.59	437.28	122.00	-	132.00	313.59	-	303.59	308.59	68.70	368.58	1.040	370.98
SB915-MW-42I	Wastebeds 9-15	SOLW	913108.5	1121520.1	435.63	437.85	59.00	-	69.00	376.63	-	366.63	371.63	47.37	390.48	1.052	391.46
SB915-MW-42S	Wastebeds 9-15	SOLW	913115.5	1121523.1	435.70	437.39	30.00	-	40.00	405.70	-	395.70	400.70	40.76	396.63	1.026	396.64
SB915-MW-43S	Wastebeds 9-15	SOLW	912821.9	1122526.7	436.77	439.44	35.00	-	45.00	401.77	-	391.77	396.77	41.84	397.60	1.002	397.60
SB915-MW-50S	Wastebeds 9-15	SOLW	910255.4	1122740.3	436.29	438.52	25.00	-	35.00	411.29	-	401.29	406.29	Dry	NA	NA	NA
SB915-MW-51S	Wastebeds 9-15	SOLW	910495.3	1122148.3	438.65	440.46	25.00	-	35.00	413.65	-	403.65	408.65	Dry	NA	NA	NA
SB915-MW-53D	Wastebeds 9-15	D	909265.2	1123027.6	435.92	437.96	110.00	-	120.00	325.92	-	315.92	320.92	67.88	370.08	1.002	370.18
SB915-MW-53I	Wastebeds 9-15	SOLW	909254.4	1123030.9	436.43	437.72	61.50	-	71.50	374.93	-	364.93	369.93	47.06	390.66	1.068	392.07
SB915-MW-53S	Wastebeds 9-15	SOLW	909244.6	1123033.7	436.25	438.04	25.00	-	35.00	411.25	-	401.25	406.25	Dry	NA	NA	NA
SB915-MW-59S	Wastebeds 9-15	S	909681.4	1122233.7	378.80	380.82	10.00	-	20.00	368.80	-	358.80	363.80	12.29	368.53	1.010	368.58
SB915-MW-60S	Wastebeds 9-15	S	909452.0	1122405.6	379.37	381.26	10.00	-	20.00	369.37	-	359.37	364.37	12.05	369.21	1.010	369.26
SB915-MW-70D	Wastebeds 9-15	D	910102.9	1121886.8	383.90	385.90	53.00	-	63.00	330.90	-	320.90	325.90	18.81	367.09	1.050	369.15
SB915-MW-70S	Wastebeds 9-15	S	910108.2	1121886.5	384.50	385.83	15.00	-	25.00	369.50	-	359.50	364.50	17.80	368.03	1.010	368.07
SB915-MW-84D	Wastebeds 9-15	D	909884.0	1121843.6	379.99	382.10	54.50	-	64.50	325.49	-	315.49	320.49	14.32	367.78	1.032	369.29
SB915-MW-84S	Wastebeds 9-15	S	909881.2	1121847.5	379.73	381.70	15.00	-	25.00	364.73	-	354.73	359.73	13.85	367.85	1.004	367.88
SB915-MW-85D	Wastebeds 9-15	D	910051.0	1121753.9	378.00	377.16	67.50	-	77.50	310.50	-	300.50	305.50	13.03	364.13	1.070	368.23
SB915-MW-85I	Wastebeds 9-15	I	910046.5	1121757.9	377.90	382.39	44.00	-	54.00	333.90	-	323.90	328.90	12.45	369.94	1.052	372.07
SB915-MW-85S	Wastebeds 9-15	S	910038.7	1121744.5	377.90	379.86	16.00	-	26.00	361.90	-	351.90	356.90	11.63	368.23	1.006	368.30
SB915-MW-87BR	Wastebeds 9-15 SCA	BR	904766.7	1119525.8	400.91	403.29	119.00	-	129.00	281.91	-	271.91	276.91	30.89	372.40	1.030	375.27
SB915-MW-87I	Wastebeds 9-15 SCA	I	904758.3	1119523.6	402.10	403.91	64.00	-	74.00	338.10	-	328.10	333.10	29.91	374.00	1.004	374.17
SB915-MW-87S	Wastebeds 9-15-SCA	S	904761.5	1119535.3	401.21	403.58	25.00	-	35.00	376.21	-	366.21	371.21	29.97	373.61	1.002	373.62
SB915-MW-88BR	Wastebeds 9-15 SCA	BR	905107.2	1120731.1	400.93	402.47	100.00	-	110.00	300.93	-	290.93	295.93	29.15	373.32	1.028	375.48
SB915-MW-88D	Wastebeds 9-15 SCA	D	905102.4	1120727.2	400.48	402.73	59.00	-	69.00	341.48	-	331.48	336.48	29.35	373.38	1.012	373.82
SB915-MW-88I	Wastebeds 9-15 SCA	I	905090.9	1120718.5	400.69	403.43	42.00	-	52.00	358.69	-	348.69	353.69	29.75	373.68	1.004	373.76
SB915-MW-88S	Wastebeds 9-15 SCA	S	905087.4	1120714.7	400.79	403.60	25.00	-	35.00	375.79	-	365.79	370.79	30.00	373.60	1.000	373.60
SB915-MW-89BR	Wastebeds 9-15 SCA	BR	906132.5	1121444.9	399.24	401.11	118.00	-	128.00	281.24	-	271.24	276.24	28.79	372.32	1.024	374.63
SB915-MW-89D	Wastebeds 9-15 SCA	D	906124.8	1121442.7	399.05	401.63	63.00	-	73.00	336.05	-	326.05	331.05	28.83	372.80	1.006	373.05
SB915-MW-89I	Wastebeds 9-15 SCA	I	906119.2	1121441.5	399.15	401.64	43.00	-	53.00	356.15	-	346.15	351.15	28.70	372.94	1.002	372.98
SB915-MW-89S	Wastebeds 9-15 SCA	S	906111.8	1121439.5	399.10	401.57	22.00	-	32.00	377.10	-	367.10	372.10	28.64	372.93	1.000	372.93
SB915-MW-89SR	Wastebeds 9-15 SCA	S	906106.8	1121438.8	399.07	401.56	10.00	-	20.00	389.07	-	379.07	384.07	Dry	NA	NA	NA
SB915-MW-90BR	Wastebeds 9-15 SCA	BR	907636.2	1121519.8	395.97	398.26	119.50	-	129.50	276.47	-	266.47	271.47	27.98	370.28	1.027	372.95
SB915-MW-90I	Wastebeds 9-15 SCA	I	907667.2	1121509.6	395.74	398.85	42.00	-	52.00	353.74	-	343.74	348.74	26.58	372.27	1.010	372.51
SB915-MW-90S	Wastebeds 9-15-SCA	S	907671.1	1121509.0	395.50	397.47	22.00	-	32.00	373.50	-	363.50	368.50	25.16	372.31	1.004	372.32
SB915-MW-91BR	Wastebeds 9-15 SCA	BR	908304.6	1119995.6	447.30	450.24	197.00	-	207.00	250.30	-	240.30	245.30	85.72	364.52	1.088	375.01
SB915-MW-91D	Wastebeds 9-15 SCA	D	908297.6	1119985.4	447.25	449.64	125.00	-	135.00	322.25	-	312.25	317.25	77.15	372.49	1.006	372.82
SB915-MW-91I	Wastebeds 9-15 SCA	D	908291.6	1119975.8	447.17	449.99	115.00	-	125.00	332.17	-	322.17	327.17	77.40	372.59	1.004	372.78
SB915-MW-91S	Wastebeds 9-15 SCA	SOLW	908294.3	1119980.5	447.30	449.87	21.00	-	41.00	426.30	-	406.30	416.30	26.39	423.48	1.020	423.65
SB915-MW-91SN	Wastebeds 9-15 SCA	S	908300.4	1119990.1	447.68	450.47	78.00	-	88.00	369.68	-	359.68	364.68	77.74	372.73	1.032	372.99
SB915-MW-92BR	Wastebeds 9-15 SCA	BR	907275.4	1119280.1	447.79	449.62	184.00	-	194.00	263.79	-	253.79	258.79	78.53	371.09	1.032	374.68
SB915-MW-92D	Wastebeds 9-15 SCA	I	907281.7	1119280.3	447.38	449.85	92.00	-	102.00	355.38	-	345.38	350.38	76.75	373.10	1.004	373.19
SB915-MW-92I	Wastebeds 9-15 SCA	I	907287.3	1119281.5	447.53	449.59	69.00	-	79.00	378.53	-	368.53	373.53	76.52	373.07	1.020	373.11
SB915-MW-92S	Wastebeds 9-15 SCA	SOLW	907293.6	1119282.7	447.43	449.73	28.00	-	48.00	419.43	-	399.43	409.43	30.96	418.77	1.016	418.92
SB915-MW-93BR	Wastebeds 9-15 SCA	BR	908865.2	1121130.5	391.63	393.79	142.00	-	152.00	249.63	-	239.63	244.63	28.43	365.36	1.076	374.53
SB915-MW-93D	Wastebeds 9-15 SCA	D	908882.7	1121124.8	391.71	393.76	52.00	-	62.00	339.71	-	329.71	334.71	22.97	370.79	1.004	370.94
SB915-MW-93I	Wastebeds 9-15 SCA	I	908895.9	1121121.0	391.85	394.57	39.00	-	49.00	352.85	-	342.85	347.85	23.82	370.75	1.002	370.79
SB915-MW-93S	Wastebeds 9-15 SCA	S	908888.9	1121122.9	391.76	394.15	22.00	-	32.00	369.76	-	359.76	364.76	23.43	370.72	1.004	370.74
SB915-MW-94S	Wastebeds 9-15 SCA	S	904859.3	1118797.1	401.02	403.50	20.00	-	30.00	381.02	-	371.02	376.02	22.69	380.81	1.002	380.82
SB915-MW-95S	Wastebeds 9-15 SCA	S	904825.3	1119977.8	402.20	403.99	26.00	-	36.00	376.20	-	366.20	371.20	29.86	374.13	1.000	374.13
SB915-MW-96S	Wastebeds 9-15 SCA	S	904823.7	1120452.5	402.13	404.23	26.00	-	36.00	376.13	-	366.13	371.13	30.51	373.72	1.002	373.72
SB915-MW-97S	Wastebeds 9-15 SCA	S	905388.3	1120984.9	399.81	402.06	25.00	-	35.00	374.81	-	364.81	369.81	28.67	373.39	1.000	373.39
SB915-MW-98S	Wastebeds 9-15 SCA	S	905690.7	1121281.9	397.87	399.94	24.00	-	34.00	373.87	-	363.87	368.87	26.81	373.13	1.002	373.13
SB915-MW-99S	Wastebeds 9-15 SCA	S	906540.8	1121549.1	396.63	399.06	22.00	-	32.00	374.63	-	364.63	369.63	26.88	372.18	1.002	372.19
SB915-MWB-01D	Wastebeds 9-15	D	909558.9	1121719.1	376.57	378.39	79.36	-	89.36	297.21	-	287.21	292.21	9.35	369.04	1.058	373.49
SB915-MWB-01S	Wastebeds 9-15	S	909555.1	1121713.8	376.80	378.92	17.80	-	22.80	359.00	-	354.00	356.50	9.80	369.12	1.006	369.19

Dry - Monitoring well is dry, no water
NA - Not available
NA[1] - Not enough water for Specific Gravity
NA[2] - Monitoring Well is obstructed
NA[3] - Monitoring Well is broken

Table 2
Honeywell
Wastebeds 9-15 Closure Investigation
Monitoring Well Groundwater Elevations

Location ID	Site	Unit	Easting	Northing	Ground Surface Elev (ft)	Top of Casing Elev (ft)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Top of Screen Elev (ft)		Bottom of Screen Elev (ft)	Screen Midpoint Elev (ft)	DTW July 2012	GW Elevation July 2012	Specific Gravity July 2012	Equivalent Fresh Water Head July 2012
SB915-PZ-07D	Wastebeds 9-15	SOLW	910099.0	1120019.5	445.18	447.22	53.00	-	63.00	392.18	-	382.18	387.18	34.95	412.27	1.028	412.98
SB915-PZ-07I	Wastebeds 9-15	SOLW	910100.9	1120024.2	445.20	447.05	30.00	-	40.00	415.20	-	405.20	410.20	27.41	419.64	1.032	419.95
SB915-PZ-07N	Wastebeds 9-15	S	910098.1	1120015.5	445.06	447.27	68.00	-	78.00	377.06	-	367.06	372.06	35.05	412.22	1.052	414.31
SB915-PZ-07S	Wastebeds 9-15	SOLW	910104.6	1120028.1	445.06	446.90	8.00	-	18.00	437.06	-	427.06	432.06	12.31	434.59	1.014	434.64
SB915-WB-01L	Wastebeds 9-15	D	902386.1	1116879.9	403.43	403.12	69.80	-	74.80	333.63	-	328.63	331.13	26.20	376.92	1.000	376.92
SB915-WB-01U	Wastebeds 9-15	S	902290.2	1116863.6	403.40	403.00	34.00	-	39.00	369.40	-	364.40	366.90	26.15	376.85	1.000	376.85
SB915-WB-02L	Wastebeds 9-15	D	904753.1	1119513.2	401.92	402.33	94.00	-	104.00	307.92	-	297.92	302.92	30.66	371.67	1.048	374.97
SB915-WB-02U	Wastebeds 9-15	S	904741.3	1119497.0	400.53	402.73	33.00	-	43.00	367.53	-	357.53	362.53	28.49	374.24	1.004	374.29
SB915-WB-03L	Wastebeds 9-15	D	904631.3	1121623.9	400.92	402.44	66.00	-	76.00	334.92	-	324.92	329.92	29.22	373.22	1.010	373.65
SB915-WB-03U	Wastebeds 9-15	S	904626.0	1121621.5	401.00	403.63	33.20	-	43.20	367.80	-	357.80	362.80	30.14	373.49	1.002	373.51
SB915-WB-04L	Wastebeds 9-15	D	907660.0	1121512.5	395.89	397.46	89.00	-	99.00	306.89	-	296.89	301.89	25.48	371.98	1.010	372.68
SB915-WB-04U	Wastebeds 9-15	S	907654.4	1121514.0	395.83	398.35	28.80	-	38.80	367.03	-	357.03	362.03	26.07	372.28	1.004	372.32
SB915-WB-05L	Wastebeds 9-15	D	910619.4	1121728.9	385.32	387.61	110.00	-	120.00	275.32	-	265.32	270.32	21.45	366.16	1.074	373.25
SB915-WB-05M	Wastebeds 9-15	I	910605.7	1121733.6	385.56	387.73	57.00	-	62.00	328.56	-	323.56	326.06	19.38	368.35	1.014	368.94
SB915-WB-05R	Wastebeds 9-15	BR	910631.0	1121725.2	385.09	387.39	146.50	-	156.10	238.59	-	228.99	233.79	26.30	361.09	1.122	376.62
SB915-WB-05U	Wastebeds 9-15	S	910613.7	1121731.2	385.41	387.90	6.80	-	11.80	378.61	-	373.61	376.11	12.28	375.62	1.012	375.63
SB915-WB-06	Wastebeds 9-15	D	914162.4	1123089.7	382.30	383.38	69.80	-	79.80	312.50	-	302.50	307.50	12.63	370.75	1.002	370.88
SB915-WB-07L	Wastebeds 9-15	D	912147.5	1121340.2	376.71	378.78	72.00	-	77.00	304.71	-	299.71	302.21	10.69	368.09	1.040	370.72
SB915-WB-07R	Wastebeds 9-15	BR	912140.1	1121354.2	376.33	378.08	103.00	-	113.00	273.33	-	263.33	268.33	15.28	362.80	1.102	372.44
SB915-WB-07U	Wastebeds 9-15	S	912145.9	1121344.2	376.61	379.33	48.00	-	53.00	328.61	-	323.61	326.11	9.78	369.55	1.014	370.16
SB915-WB-09L	Wastebeds 9-15	D	914893.2	1121705.4	375.10	377.25	64.00	-	74.00	311.10	-	301.10	306.10	6.48	370.77	1.010	371.42
SB915-WB-09U	Wastebeds 9-15	S	914906.4	1121703.1	374.64	377.75	10.00	-	20.00	364.64	-	354.64	359.64	12.05	365.70	NA[2]	NA
SB915-WB-10L	Wastebeds 9-15	D	913634.3	1121298.2	375.30	377.61	64.00	-	74.00	311.30	-	301.30	306.30	7.08	370.53	1.044	373.36
SB915-WB-10U	Wastebeds 9-15	S	913632.7	1121329.4	376.30	378.62	5.00	-	15.00	371.30	-	361.30	366.30	8.39	370.23	1.018	370.31
SB915-WB-15B/15S	Wastebeds 9-15	SOLW	905550.1	1116676.5	447.97	449.68	15.00	-	25.00	432.97	-	422.97	427.97	25.32	424.36	NA[1]	NA
WB18-MW-14BR	Wastebeds 1-8	BR	916007.0	1122830.3	374.82	375.85	100.00	-	130.00	274.82	-	244.82	259.82	9.68	366.17	1.082	374.89
WB18-MW-14D	Wastebeds 1-8	D	915989.1	1122852.8	374.84	375.97	50.00	-	60.00	324.84	-	314.84	319.84	6.64	369.33	1.038	371.21

Dry - Monitoring well is dry, no water
NA - Not available
NA[1] - Not enough water for Specific Gravity
NA[2] - Monitoring Well is obstructed
NA[3] - Monitoring Well is broken

Table 2
Honeywell
Wastebeds 9-15 Closure Investigation
Monitoring Well Groundwater Elevations

Location ID	Site	Unit	Easting	Northing	Ground Surface Elev (ft)	Top of Casing Elev (ft)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Top of Screen Elev (ft)		Bottom of Screen Elev (ft)	Screen Midpoint Elev (ft)	DTW October 2012	GW Elevation October 2012	Specific Gravity October 2012	Equivalent Fresh Water Head October 2012
SB915-IMW-01S	Wastebeds 9-15	S	912220.3	1121196.6	376.76	378.53	8.00	-	18.00	368.76	-	358.76	363.76	7.68	370.85	1.014	370.95
SB915-IMW-02S	Wastebeds 9-15	S	911975.8	1121977.8	376.80	378.48	6.00	-	16.00	370.80	-	360.80	365.80	5.49	372.99	1.030	373.21
SB915-IMW-03S	Wastebeds 9-15	S	911611.2	1122557.5	377.30	379.35	9.00	-	24.00	368.30	-	353.30	360.80	8.72	370.63	1.040	371.03
SB915-IMW-04S	Wastebeds 9-15	S	911192.1	1122857.2	375.99	379.57	6.00	-	16.00	369.99	-	359.99	364.99	9.98	369.59	1.010	369.63
SB915-IMW-05S	Wastebeds 9-15	S	911621.2	1122185.7	376.86	378.81	10.00	-	20.00	366.86	-	356.86	361.86	5.00	373.81	1.010	373.93
SB915-IMW-06S	Wastebeds 9-15	S	911872.3	1121780.9	376.88	378.89	4.00	-	14.00	372.88	-	362.88	367.88	4.88	374.01	1.012	374.08
SB915-MW-01	Wastebeds 9-15	S	911682.9	1118587.7	400.39	402.57	6.17	-	16.17	394.22	-	384.22	389.22	9.96	392.61	1.000	392.61
SB915-MW-03	Wastebeds 9-15	S	912312.1	1119305.1	384.42	386.42	24.35	-	34.35	360.07	-	350.07	355.07	8.72	377.70	1.010	377.92
SB915-MW-04	Wastebeds 9-15	S	912377.7	1120043.4	377.86	379.02	11.95	-	21.95	365.91	-	355.91	360.91	9.18	369.84	1.020	370.02
SB915-MW-100S	Wastebeds 9-15 SCA	S	907035.0	1121705.3	394.71	396.74	22.00	-	32.00	372.71	-	362.71	367.71	24.98	371.76	1.006	371.79
SB915-MW-101S	Wastebeds 9-15 SCA	S	907379.1	1121602.9	395.12	397.15	22.00	-	32.00	373.12	-	363.12	368.12	25.45	371.70	1.004	371.72
SB915-MW-102S	Wastebeds 9-15 SCA	S	908344.8	1121283.7	393.38	395.81	20.00	-	30.00	373.38	-	363.38	368.38	24.37	371.44	1.002	371.44
SB915-MW-103S	Wastebeds 9-15 SCA	S	906152.5	1118994.3	440.45	443.04	68.00	-	78.00	372.45	-	362.45	367.45	69.90	373.14	1.000	373.14
SB915-MW-104I	Wastebeds 9-15	I	904888.5	1117766.1	400.90	402.84	62.00	-	72.00	338.90	-	328.90	333.90	29.26	373.58	1.002	373.66
SB915-MW-104S	Wastebeds 9-15	S	904890.9	1117753.9	400.60	402.98	14.00	-	24.00	386.60	-	376.60	381.60	12.21	390.77	1.064	391.36
SB915-MW-105BR	Wastebeds 9-15	BR	907632.1	1116990.1	463.30	464.66	48.40	-	63.40	414.90	-	399.90	407.40	62.12	402.54	1.002	402.54
SB915-MW-105S	Wastebeds 9-15	S	907627.9	1116988.1	463.40	465.15	4.00	-	14.00	459.40	-	449.40	454.40	15.38	449.77	NA[1]	NA
SB915-MW-106I	Wastebeds 9-15	I	911442.7	1119949.0	379.70	381.92	34.00	-	44.00	345.70	-	335.70	340.70	9.97	371.95	1.002	372.01
SB915-MW-106S	Wastebeds 9-15	S	911443.7	1119940.0	379.60	381.69	8.00	-	18.00	371.60	-	361.60	366.60	3.46	378.23	1.002	378.25
SB915-MW-107BR	Wastebeds 9-15	BR	910460.3	1120723.4	377.00	379.09	120.00	-	130.00	257.00	-	247.00	252.00	19.71	359.38	1.130	373.34
SB915-MW-107D	Wastebeds 9-15	D	910476.4	1120718.6	377.00	378.77	96.00	-	106.00	281.00	-	271.00	276.00	9.99	368.78	1.010	369.71
SB915-MW-107I	Wastebeds 9-15	I	910488.0	1120715.2	376.70	378.49	46.00	-	56.00	330.70	-	320.70	325.70	8.34	370.15	1.004	370.33
SB915-MW-107S	Wastebeds 9-15	S	910497.4	1120710.1	377.00	378.89	10.00	-	20.00	367.00	-	357.00	362.00	3.46	375.43	1.030	375.83
SB915-MW-108BR	Wastebeds 9-15	BR	908744.2	1123161.5	398.20	400.51	83.00	-	93.00	315.20	-	305.20	310.20	23.23	377.28	1.004	377.55
SB915-MW-108D	Wastebeds 9-15	D	908745.2	1123148.7	397.50	400.42	52.00	-	62.00	345.50	-	335.50	340.50	29.98	370.44	1.011	370.77
SB915-MW-108S	Wastebeds 9-15	S	908746.2	1123136.7	397.90	400.24	15.00	-	25.00	382.90	-	372.90	377.90	26.83	373.41	NA[1]	NA
SB915-MW-109I	Wastebeds 9-15	I	909836.8	1123405.2	384.10	385.86	43.00	-	53.00	341.10	-	331.10	336.10	17.13	368.73	1.026	369.58
SB915-MW-109S	Wastebeds 9-15	S	909826.4	1123406.6	384.10	386.03	4.00	-	14.00	380.10	-	370.10	375.10	4.46	381.57	1.034	381.79
SB915-MW-110S	Wastebeds 9-15	S	910978.3	1123187.4	377.30	379.00	8.00	-	18.00	369.30	-	359.30	364.30	4.47	374.53	1.010	374.63
SB915-MW-111BR	Wastebeds 9-15	BR	912000.0	1123138.4	375.70	377.35	131.00	-	141.00	244.70	-	234.70	239.70	12.32	365.03	1.064	373.05
SB915-MW-111D	Wastebeds 9-15	D	911988.5	1123140.7	375.60	377.42	87.00	-	97.00	288.60	-	278.60	283.60	7.28	370.14	1.012	371.18
SB915-MW-111I	Wastebeds 9-15	I	911977.5	1123143.2	375.30	377.54	54.00	-	64.00	321.30	-	311.30	316.30	8.74	368.80	1.010	369.33
SB915-MW-111S	Wastebeds 9-15	S	911966.1	1123145.9	375.60	377.62	13.00	-	23.00	362.60	-	352.60	357.60	8.95	368.67	1.034	369.05
SB915-MW-112I	Wastebeds 9-15	I	914048.0	1122805.9	383.90	385.91	50.00	-	60.00	333.90	-	323.90	328.90	16.78	369.13	1.010	369.53
SB915-MW-112S	Wastebeds 9-15	S	914035.7	1122808.0	383.80	385.77	10.00	-	20.00	373.80	-	363.80	368.80	15.48	370.29	1.010	370.32
SB915-MW-113S	Wastebeds 9-15	S	915171.7	1122137.9	375.20	377.07	18.00	-	28.00	357.20	-	347.20	352.20	11.29	365.78	1.010	365.92
SB915-MW-114BR	Wastebeds 9-15	BR	910193.2	1117515.7	459.30	461.78	27.00	-	37.00	432.30	-	422.30	427.30	35.09	426.69	1.006	426.70
SB915-MW-115BR	Wastebeds 9-15	BR	912390.0	1120039.7	378.08	380.35	79.00	-	89.00	299.08	-	289.08	294.08	9.22	371.13	1.010	371.90
SB915-MW-116S	Wastebeds 9-15	S	911666.5	1120199.4	375.20	376.86	8.00	-	18.00	367.20	-	357.20	362.20	4.44	372.42	1.012	372.54
SB915-MW-117S	Wastebeds 9-15	S	913006.5	1119726.8	379.80	381.51	14.00	-	24.00	365.80	-	355.80	360.80	8.08	373.43	1.022	373.71
SB915-MW-118BR	Wastebeds 9-15	BR	911507.1	1119379.6	380.50	382.35	47.00	-	57.00	333.50	-	323.50	328.50	4.48	377.87	1.002	377.97
SB915-MW-118S	Wastebeds 9-15	S	911505.3	1119375.5	380.50	382.59	4.00	-	14.00	376.50	-	366.50	371.50	3.46	379.13	1.000	379.13
SB915-MW-36D	Wastebeds 9-15	D	907402.3	1118700.9	454.26	454.82	108.00	-	118.00	346.26	-	336.26	341.26	82.33	372.49	1.008	372.74
SB915-MW-36I	Wastebeds 9-15	SOLW	907408.6	1118694.3	453.41	456.19	52.00	-	62.00	401.41	-	391.41	396.41	43.20	412.99	1.044	413.72
SB915-MW-36S	Wastebeds 9-15	SOLW	907404.8	1118697.2	453.56	455.80	8.00	-	18.00	445.56	-	435.56	440.56	Dry	NA	NA	NA
SB915-MW-40S	Wastebeds 9-15	SOLW	914447.4	1122218.7	436.24	439.64	35.00	-	45.00	401.24	-	391.24	396.24	47.91	391.73	NA[1]	NA
SB915-MW-42D	Wastebeds 9-15	D	913102.1	1121517.6	435.59	437.28	122.00	-	132.00	313.59	-	303.59	308.59	68.85	368.43	1.042	370.94
SB915-MW-42I	Wastebeds 9-15	SOLW	913108.5	1121520.1	435.63	437.85	59.00	-	69.00	376.63	-	366.63	371.63	51.61	386.24	1.060	387.11
SB915-MW-42S	Wastebeds 9-15	SOLW	913115.5	1121523.1	435.70	437.39	30.00	-	40.00	405.70	-	395.70	400.70	41.38	396.01	NA[1]	NA
SB915-MW-43S	Wastebeds 9-15	SOLW	912821.9	1122526.7	436.77	439.44	35.00	-	45.00	401.77	-	391.77	396.77	Dry	NA	NA	NA
SB915-MW-50S	Wastebeds 9-15	SOLW	910255.4	1122740.3	436.29	438.52	25.00	-	35.00	411.29	-	401.29	406.29	Dry	NA	NA	NA
SB915-MW-51S	Wastebeds 9-15	SOLW	910495.3	1122148.3	438.65	440.46	25.00	-	35.00	413.65	-	403.65	408.65	Dry	NA	NA	NA
SB915-MW-53D	Wastebeds 9-15	D	909265.2	1123027.6	435.92	437.96	110.00	-	120.00	325.92	-	315.92	320.92	69.38	368.58	1.002	368.68
SB915-MW-53I	Wastebeds 9-15	SOLW	909254.4	1123030.9	436.43	437.72	61.50	-	71.50	374.93	-	364.93	369.93	51.09	386.63	1.070	387.80
SB915-MW-53S	Wastebeds 9-15	SOLW	909244.6	1123033.7	436.25	438.04	25.00	-	35.00	411.25	-	401.25	406.25	35.01	403.03	NA[1]	NA
SB915-MW-59S	Wastebeds 9-15	S	909681.4	1122233.7	378.80	380.82	10.00	-	20.00	368.80	-	358.80	363.80	12.73	368.09	1.014	368.16
SB915-MW-60S	Wastebeds 9-15	S	909452.0	1122405.6	379.37	381.26	10.00	-	20.00	369.37	-	359.37	364.37	12.56	368.70	1.006	368.72
SB915-MW-70D	Wastebeds 9-15	D	910102.9	1121886.8	383.90	385.90	53.00	-	63.00	330.90	-	320.90	325.90	19.04	366.86	1.044	368.66
SB915-MW-70S	Wastebeds 9-15	S	910108.2	1121886.5	384.50	385.83	15.00	-	25.00	369.50	-	359.50	364.50	18.07	367.76	1.010	367.80
SB915-MW-84D	Wastebeds 9-15	D	909884.0	1121843.6	379.99	382.10	54.50	-	64.50	325.49	-	315.49	320.49	14.72	367.38	1.030	368.78
SB915-MW-84S	Wastebeds 9-15	S	909881.2	1121847.5	379.73	381.70	15.00	-	25.00	364.73	-	354.73	359.73	14.14	367.56	1.006	367.61
SB915-MW-85D	Wastebeds 9-15	D	910051.0	1121753.9	378.00	377.16	67.50	-	77.50	310.50	-	300.50	305.50	13.46	363.70	1.060	367.19
SB915-MW-85I	Wastebeds 9-15	I	910046.5	1121757.9	377.90	382.39	44.00	-	54.00	333.90	-	323.90	328.90	12.72	369.67	1.040	371.30
SB915-MW-85S	Wastebeds 9-15	S	910038.7	1121744.5	377.90	379.86	16.00	-	26.00	361.90	-	351.90	356.90	11.85	368.01	1.011	368.14
SB915-MW-87BR	Wastebeds 9-15 SCA	BR	904766.7	1119525.8	400.91	403.29	119.00	-	129.00	281.91	-	271.91	276.91	31.55	371.74	1.026	374.21
SB915-MW-87I	Wastebeds 9-15 SCA	I	904758.3	1119523.6	402.10	403.91	64.00	-	74.00	338.10	-	328.10	333.10	30.53	373.38	1.002	373.46
SB915-MW-87S	Wastebeds 9-15-SCA	S	904761.5	1119535.3	401.21	403.58	25.00	-	35.00	376.21	-	366.21	371.21	30.59	372.99	1.002	373.00
SB915-MW-88BR	Wastebeds 9-15 SCA	BR	905107.2	1120731.1	400.93	402.47	100.00	-	110.00	300.93	-	290.93	295.93	29.69	372.78	1.020	374.31
SB915-MW-88D	Wastebeds 9-15 SCA	D	905102.4	1120727.2	400.48	402.73	59.00	-	69.00	341.48	-	331.48	336.48	29.95	372.78	1.020	373.51
SB915-MW-88I	Wastebeds 9-15 SCA	I	905090.9	1120718.5	400.69	403.43	42.00	-	52.00	358.69	-	348.69	353.69	30.34	373.09	1.004	373.16
SB915-MW-88S	Wastebeds 9-15 SCA	S	905087.4	1120714.7	400.79	403.60	25.00	-	35.00	375.79	-	365.79	370.79	30.57	373.03	1.002	373.04
SB915-MW-89BR	Wastebeds 9-15 SCA	BR	906132.5	1121444.9	399.24	401.11	118.00	-	128.00	281.24	-	271.24	276.24	29.34	371.77	1.010	372.73
SB915-MW-89D	Wastebeds 9-15 SCA	D	906124.8	1121442.7	399.05	401.63	63.00	-	73.00	336.05	-	326.05	331.05	29.36	372.27	1.004	372.43
SB915-MW-89I	Wastebeds 9-15 SCA	I	906119.2	1121441.5	399.15	401.64	43.00	-	53.00	356.15	-	346.15	351.15	29.24	372.40	1.004	372.48
SB915-MW-89S	Wastebeds 9-15 SCA	S	906111.8	1121439.5	399.10	401.57	22.00	-	32.00	377.10	-	367.10	372.10	29.22	372.35	1.004	372.36
SB915-MW-89SR	Wastebeds 9-15 SCA	S	906106.8	1121438.8	399.07	401.56	10.00	-	20.00	389.07	-	379.07	384.07	Dry	NA	NA	NA
SB915-MW-90BR	Wastebeds 9-15 SCA	BR	907636.2	1121519.8	395.97	398.26	119.50	-	129.50	276.47	-	266.47	271.47	28.48	369.78	1.030	372.73
SB915-MW-90I	Wastebeds 9-15 SCA	I	907667.2	1121509.6	395.74	398.85	42.00	-	52.00	353.74	-	343.74	348.74	27.09	371.76	1.006	371.90
SB915-MW-90S	Wastebeds 9-15-SCA	S	907671.1	1121509.0	395.50	397.47	22.00	-	32.00	373.50	-	363.50	368.50	25.68	371.79	1.004	371.80
SB915-MW-91BR	Wastebeds 9-15 SCA	BR	908304.6	1119995.6	447.30	450.24	197.00	-	207.00	250.30	-	240.30	245.30	86.45	363.79	1.086	373.98
SB915-MW-91D	Wastebeds 9-15 SCA	D	908297.6	1119985.4	447.25	449.64	125.00	-	135.00	322.25	-	312.25	317.25	77.73	371.91	1.004	372.13
SB915-MW-91I	Wastebeds 9-15 SCA	D	908291.6	1119975.8	447.17	449.99	115.00	-	125.00	332.17	-	322.17	327.17	77.96	372.03	1.000	372.03
SB915-MW-91S	Wastebeds 9-15 SCA	SOLW	908294.3	1119980.5	447.30	449.87	21.00	-	41.00	426.30	-	406.30	416.30	38.10	411.77	1.020	411.82
SB915-MW-91SN	Wastebeds 9-15 SCA	S	908300.4	1119990.1	447.68	450.47	78.00	-	88.00	369.68	-	359.68	364.68	78.25	372.22	1.020	372.37
SB915-MW-92BR	Wastebeds 9-15 SCA	BR	907275.4	1119280.1	447.79	449.62	184.00	-	194.00	263.79	-	253.79	258.79	79.09	370.53	1.030	373.88
SB915-MW-92D	Wastebeds 9-15 SCA	I	907281.7	1119280.3	447.38	449.85	92.00	-	102.00	355.38	-	345.38	350.38	77.35	372.50	1.002	372.54
SB915-MW-92I	Wastebeds 9-15 SCA	I	907287.3	1119281.5	447.53	449.59	69.00	-	79.00	378.53	-	368.53	373.53	77.05	372.54	1.016	372.57
SB915-MW-92S	Wastebeds 9-15 SCA	SOLW	907293.6	1119282.7	447.43	449.73	28.00	-	48.00	419.43	-	399.43	409.43	38.43	411.30	1.018	411.40
SB915-MW-93BR	Wastebeds 9-15 SCA	BR	908865.2	1121130.5	391.63	393.79	142.00	-	152.00	249.63	-	239.63	244.63	28.83	364.96	1.074	373.86
SB915-MW-93D	Wastebeds 9-15 SCA	D	908882.7	1121124.8	391.71	393.76	52.00	-	62.00	339.71	-	329.71	334.71	23.48	370.28	1.004	370.43
SB915-MW-93I	Wastebeds 9-15 SCA	I	908895.9	1121121.0	391.85	394.57	39.00	-	49.00	352.85	-	342.85	347.85	24.34	370.23	1.050	371.34
SB915-MW-93S	Wastebeds 9-15 SCA	S	908888.9	1121122.9	391.76	394.15	22.00	-	32.00	369.76	-	359.76	364.76	23.95	370.20	1.000	370.20
SB915-MW-94S	Wastebeds 9-15 SCA	S	904859.3	1118797.1	401.02	403.50	20.00	-	30.00	381.02	-	371.02	376.02	22.90	380.60	1.000	380.60
SB915-MW-95S	Wastebeds 9-15 SCA	S	904825.3	1119977.8	402.20	403.99	26.00	-	36.00	376.20	-	366.20	371.20	30.50	373.49	1.002	373.50
SB915-MW-96S	Wastebeds 9-15 SCA	S	904823.7	1120452.5	402.13	404.23	26.00	-	36.00	376.13	-	366.13	371.13	30.12	374.11	1.002	374.11
SB915-MW-97S	Wastebeds 9-15 SCA	S	905388.3	1120984.9	399.81	402.06	25.00	-	35.00	374.81	-	364.81	369.81	29.28	372.78	1.000	372.78
SB915-MW-98S	Wastebeds 9-15 SCA	S	905690.7	1121281.9	397.87	399.94	24.00	-	34.00	373.87	-	363.87	368.87	27.38	372.56	1.002	372.56
SB915-MW-99S	Wastebeds 9-15 SCA	S	906540.8	1121549.1	396.63	399.06	22.00	-	32.00	374.63	-	364.63	369.63	27.44	371.62	1.002	371.63
SB915-MWB-01D	Wastebeds 9-15	D	909558.9	1121719.1	376.57	378.39	79.36	-	89.36	297.21	-	287.21	292.21	9.74	368.65	1.010	369.41
SB915-MWB-01S	Wastebeds 9-15	S	909555.1	1121713.8	376.80	378.92	17.80	-	22.80	359.00	-	354.00	356.50	10.19	368.73	1.008	368.82

Dry - Monitoring well is dry, no water
NA - Not available
NA[1] - Not enough water for Specific Gravity
NA[2] - Monitoring Well is obstructed
NA[3] - Monitoring Well is broken

Table 2
Honeywell
Wastebeds 9-15 Closure Investigation
Monitoring Well Groundwater Elevations

Location ID	Site	Unit	Easting	Northing	Ground Surface Elev (ft)	Top of Casing Elev (ft)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Top of Screen Elev (ft)		Bottom of Screen Elev (ft)	Screen Midpoint Elev (ft)	DTW October 2012	GW Elevation October 2012	Specific Gravity October 2012	Equivalent Fresh Water Head October 2012
SB915-PZ-07D	Wastebeds 9-15	SOLW	910099.0	1120019.5	445.18	447.22	53.00	-	63.00	392.18	-	382.18	387.18	41.51	405.71	1.040	406.45
SB915-PZ-07I	Wastebeds 9-15	SOLW	910100.9	1120024.2	445.20	447.05	30.00	-	40.00	415.20	-	405.20	410.20	33.74	413.31	1.042	413.48
SB915-PZ-07N	Wastebeds 9-15	S	910098.1	1120015.5	445.06	447.27	68.00	-	78.00	377.06	-	367.06	372.06	42.36	404.91	1.054	406.69
SB915-PZ-07S	Wastebeds 9-15	SOLW	910104.6	1120028.1	445.06	446.90	8.00	-	18.00	437.06	-	427.06	432.06	19.76	427.14	NA[1]	NA
SB915-WB-01L	Wastebeds 9-15	D	902386.1	1116879.9	403.43	403.12	69.80	-	74.80	333.63	-	328.63	331.13	26.60	376.52	1.004	376.70
SB915-WB-01U	Wastebeds 9-15	S	902290.2	1116863.6	403.40	403.00	34.00	-	39.00	369.40	-	364.40	366.90	27.38	375.62	1.006	375.67
SB915-WB-02L	Wastebeds 9-15	D	904753.1	1119513.2	401.92	402.33	94.00	-	104.00	307.92	-	297.92	302.92	31.29	371.04	1.040	373.76
SB915-WB-02U	Wastebeds 9-15	S	904741.3	1119497.0	400.53	402.73	33.00	-	43.00	367.53	-	357.53	362.53	29.08	373.65	1.004	373.69
SB915-WB-03L	Wastebeds 9-15	D	904631.3	1121623.9	400.92	402.44	66.00	-	76.00	334.92	-	324.92	329.92	29.43	373.01	1.010	373.44
SB915-WB-03U	Wastebeds 9-15	S	904626.0	1121621.5	401.00	403.63	33.20	-	43.20	367.80	-	357.80	362.80	30.31	373.32	1.006	373.39
SB915-WB-04L	Wastebeds 9-15	D	907660.0	1121512.5	395.89	397.46	89.00	-	99.00	306.89	-	296.89	301.89	26.00	371.46	1.010	372.16
SB915-WB-04U	Wastebeds 9-15	S	907654.4	1121514.0	395.83	398.35	28.80	-	38.80	367.03	-	357.03	362.03	26.60	371.75	1.006	371.80
SB915-WB-05L	Wastebeds 9-15	D	910619.4	1121728.9	385.32	387.61	110.00	-	120.00	275.32	-	265.32	270.32	21.93	365.68	1.080	373.31
SB915-WB-05M	Wastebeds 9-15	I	910605.7	1121733.6	385.56	387.73	57.00	-	62.00	328.56	-	323.56	326.06	19.80	367.93	1.020	368.76
SB915-WB-05R	Wastebeds 9-15	BR	910631.0	1121725.2	385.09	387.39	146.50	-	156.10	238.59	-	228.99	233.79	26.28	361.11	1.120	376.39
SB915-WB-05U	Wastebeds 9-15	S	910613.7	1121731.2	385.41	387.90	6.80	-	11.80	378.61	-	373.61	376.11	14.30	373.60	NA[1]	NA
SB915-WB-06	Wastebeds 9-15	D	914162.4	1123089.7	382.30	383.38	69.80	-	79.80	312.50	-	302.50	307.50	12.92	370.46	1.010	371.09
SB915-WB-07L	Wastebeds 9-15	D	912147.5	1121340.2	376.71	378.78	72.00	-	77.00	304.71	-	299.71	302.21	10.88	367.90	1.044	370.79
SB915-WB-07R	Wastebeds 9-15	BR	912140.1	1121354.2	376.33	378.08	103.00	-	113.00	273.33	-	263.33	268.33	15.38	362.70	1.106	372.70
SB915-WB-07U	Wastebeds 9-15	S	912145.9	1121344.2	376.61	379.33	48.00	-	53.00	328.61	-	323.61	326.11	10.00	369.33	1.010	369.77
SB915-WB-09L	Wastebeds 9-15	D	914893.2	1121705.4	375.10	377.25	64.00	-	74.00	311.10	-	301.10	306.10	6.59	370.66	1.010	371.31
SB915-WB-09U	Wastebeds 9-15	S	914906.4	1121703.1	374.64	377.75	10.00	-	20.00	364.64	-	354.64	359.64	13.07	364.68	1.020	364.78
SB915-WB-10L	Wastebeds 9-15	D	913634.3	1121298.2	375.30	377.61	64.00	-	74.00	311.30	-	301.30	306.30	7.25	370.36	1.020	371.64
SB915-WB-10U	Wastebeds 9-15	S	913632.7	1121329.4	376.30	378.62	5.00	-	15.00	371.30	-	361.30	366.30	10.84	367.78	1.022	367.85
SB915-WB-15B/15S	Wastebeds 9-15	SOLW	905550.1	1116676.5	447.97	449.68	15.00	-	25.00	432.97	-	422.97	427.97	25.51	424.17	1.010	424.18
WB18-MW-14BR	Wastebeds 1-8	BR	916007.0	1122830.3	374.82	375.85	100.00	-	130.00	274.82	-	244.82	259.82	9.80	366.05	1.080	374.55
WB18-MW-14D	Wastebeds 1-8	D	915989.1	1122852.8	374.84	375.97	50.00	-	60.00	324.84	-	314.84	319.84	6.69	369.28	1.030	370.77

Dry - Monitoring well is dry, no water
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NA[1] - Not enough water for Specific Gravity
NA[2] - Monitoring Well is obstructed
NA[3] - Monitoring Well is broken

Table 2
Honeywell
Wastebeds 9-15 Closure Investigation
Monitoring Well Groundwater Elevations

Location ID	Site	Unit	Easting	Northing	Ground Surface Elev (ft)	Top of Casing Elev (ft)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Top of Screen Elev (ft)		Bottom of Screen Elev (ft)	Screen Midpoint Elev (ft)	DTW January 2013	GW Elevation January 2013	Specific Gravity January 2013	Equivalent Fresh Water Head January 2013
SB915-IMW-01S	Wastebeds 9-15	S	912220.3	1121196.6	376.76	378.53	8.00	-	18.00	368.76	-	358.76	363.76	8.58	369.95	1.012	370.03
SB915-IMW-02S	Wastebeds 9-15	S	911975.8	1121977.8	376.80	378.48	6.00	-	16.00	370.80	-	360.80	365.80	6.05	372.43	1.022	372.58
SB915-IMW-03S	Wastebeds 9-15	S	911611.2	1122557.5	377.30	379.35	9.00	-	24.00	368.30	-	353.30	360.80	9.02	370.33	1.034	370.66
SB915-IMW-04S	Wastebeds 9-15	S	911192.1	1122857.2	375.99	379.57	6.00	-	16.00	369.99	-	359.99	364.99	9.67	369.90	1.002	369.91
SB915-IMW-05S	Wastebeds 9-15	S	911621.2	1122185.7	376.86	378.81	10.00	-	20.00	366.86	-	356.86	361.86	6.04	372.77	1.012	372.90
SB915-IMW-06S	Wastebeds 9-15	S	911872.3	1121780.9	376.88	378.89	4.00	-	14.00	372.88	-	362.88	367.88	4.89	374.00	1.020	374.12
SB915-MW-01	Wastebeds 9-15	S	911682.9	1118587.7	400.39	402.57	6.17	-	16.17	394.22	-	384.22	389.22	10.69	391.88	0.998	391.88
SB915-MW-03	Wastebeds 9-15	S	912312.1	1119305.1	384.42	386.42	24.35	-	34.35	360.07	-	350.07	355.07	7.44	378.98	1.002	379.03
SB915-MW-04	Wastebeds 9-15	S	912377.7	1120043.4	377.86	379.02	11.95	-	21.95	365.91	-	355.91	360.91	5.90	373.12	1.022	373.39
SB915-MW-100S	Wastebeds 9-15 SCA	S	907035.0	1121705.3	394.71	396.74	22.00	-	32.00	372.71	-	362.71	367.71	23.93	372.81	1.010	372.86
SB915-MW-101S	Wastebeds 9-15 SCA	S	907379.1	1121602.9	395.12	397.15	22.00	-	32.00	373.12	-	363.12	368.12	24.39	372.76	1.004	372.78
SB915-MW-102S	Wastebeds 9-15 SCA	S	908344.8	1121283.7	393.38	395.81	20.00	-	30.00	373.38	-	363.38	368.38	23.39	372.42	1.002	372.42
SB915-MW-103S	Wastebeds 9-15 SCA	S	906152.5	1118994.3	440.45	443.04	68.00	-	78.00	372.45	-	362.45	367.45	65.19	377.85	1.002	377.87
SB915-MW-104I	Wastebeds 9-15	I	904888.5	1117766.1	400.90	402.84	62.00	-	72.00	338.90	-	328.90	333.90	27.91	374.93	1.000	374.93
SB915-MW-104S	Wastebeds 9-15	S	904890.9	1117753.9	400.60	402.98	14.00	-	24.00	386.60	-	376.60	381.60	10.56	392.42	1.062	393.09
SB915-MW-105BR	Wastebeds 9-15	BR	907632.1	1116990.1	463.30	464.66	48.40	-	63.40	414.90	-	399.90	407.40	50.36	414.30	1.002	414.31
SB915-MW-105S	Wastebeds 9-15	S	907627.9	1116988.1	463.40	465.15	4.00	-	14.00	459.40	-	449.40	454.40	Dry	NA	NA	NA
SB915-MW-106I	Wastebeds 9-15	I	911442.7	1119949.0	379.70	381.92	34.00	-	44.00	345.70	-	335.70	340.70	9.10	372.82	1.000	372.82
SB915-MW-106S	Wastebeds 9-15	S	911443.7	1119940.0	379.60	381.69	8.00	-	18.00	371.60	-	361.60	366.60	4.81	376.88	1.000	376.88
SB915-MW-107BR	Wastebeds 9-15	BR	910460.3	1120723.4	377.00	379.09	120.00	-	130.00	257.00	-	247.00	252.00	19.25	359.84	1.130	373.86
SB915-MW-107D	Wastebeds 9-15	D	910476.4	1120718.6	377.00	378.77	96.00	-	106.00	281.00	-	271.00	276.00	9.60	369.17	1.008	369.92
SB915-MW-107I	Wastebeds 9-15	I	910488.0	1120715.2	376.70	378.49	46.00	-	56.00	330.70	-	320.70	325.70	7.80	370.69	1.006	370.96
SB915-MW-107S	Wastebeds 9-15	S	910497.4	1120710.1	377.00	378.89	10.00	-	20.00	367.00	-	357.00	362.00	3.60	375.29	1.032	375.72
SB915-MW-108BR	Wastebeds 9-15	BR	908744.2	1123161.5	398.20	400.51	83.00	-	93.00	315.20	-	305.20	310.20	21.16	379.35	1.004	379.63
SB915-MW-108D	Wastebeds 9-15	D	908745.2	1123148.7	397.50	400.42	52.00	-	62.00	345.50	-	335.50	340.50	29.31	371.11	1.002	371.17
SB915-MW-108S	Wastebeds 9-15	S	908746.2	1123136.7	397.90	400.24	15.00	-	25.00	382.90	-	372.90	377.90	26.02	374.22	1.010	374.23
SB915-MW-109I	Wastebeds 9-15	I	909836.8	1123405.2	384.10	385.86	43.00	-	53.00	341.10	-	331.10	336.10	16.89	368.97	1.020	369.63
SB915-MW-109S	Wastebeds 9-15	S	909826.4	1123406.6	384.10	386.03	4.00	-	14.00	380.10	-	370.10	375.10	3.22	382.81	1.018	382.95
SB915-MW-110S	Wastebeds 9-15	S	910978.3	1123187.4	377.30	379.00	8.00	-	18.00	369.30	-	359.30	364.30	4.38	374.62	1.000	374.62
SB915-MW-111BR	Wastebeds 9-15	BR	912000.0	1123138.4	375.70	377.35	131.00	-	141.00	244.70	-	234.70	239.70	12.27	365.08	1.102	377.87
SB915-MW-111D	Wastebeds 9-15	D	911988.5	1123140.7	375.60	377.42	87.00	-	97.00	288.60	-	278.60	283.60	7.02	370.40	1.014	371.62
SB915-MW-111I	Wastebeds 9-15	I	911977.5	1123143.2	375.30	377.54	54.00	-	64.00	321.30	-	311.30	316.30	8.39	369.15	1.034	370.95
SB915-MW-111S	Wastebeds 9-15	S	911966.1	1123145.9	375.60	377.62	13.00	-	23.00	362.60	-	352.60	357.60	8.57	369.05	1.028	369.37
SB915-MW-112I	Wastebeds 9-15	I	914048.0	1122805.9	383.90	385.91	50.00	-	60.00	333.90	-	323.90	328.90	16.37	369.54	1.032	370.84
SB915-MW-112S	Wastebeds 9-15	S	914035.7	1122808.0	383.80	385.77	10.00	-	20.00	373.80	-	363.80	368.80	14.82	370.95	1.006	370.97
SB915-MW-113S	Wastebeds 9-15	S	915171.7	1122137.9	375.20	377.07	18.00	-	28.00	357.20	-	347.20	352.20	10.55	366.52	1.006	366.61
SB915-MW-114BR	Wastebeds 9-15	BR	910193.2	1117515.7	459.30	461.78	27.00	-	37.00	432.30	-	422.30	427.30	34.67	427.11	1.004	427.12
SB915-MW-115BR	Wastebeds 9-15	BR	912390.0	1120039.7	378.08	380.35	79.00	-	89.00	299.08	-	289.08	294.08	8.71	371.64	1.006	372.11
SB915-MW-116S	Wastebeds 9-15	S	911666.5	1120199.4	375.20	376.86	8.00	-	18.00	367.20	-	357.20	362.20	5.18	371.68	1.012	371.79
SB915-MW-117S	Wastebeds 9-15	S	913006.5	1119726.8	379.80	381.51	14.00	-	24.00	365.80	-	355.80	360.80	8.07	373.44	1.010	373.57
SB915-MW-118BR	Wastebeds 9-15	BR	911507.1	1119379.6	380.50	382.35	47.00	-	57.00	333.50	-	323.50	328.50	3.22	379.13	1.000	379.13
SB915-MW-118S	Wastebeds 9-15	S	911505.3	1119375.5	380.50	382.59	4.00	-	14.00	376.50	-	366.50	371.50	4.31	378.28	1.006	378.32
SB915-MW-36D	Wastebeds 9-15	D	907402.3	1118700.9	454.26	454.82	108.00	-	118.00	346.26	-	336.26	341.26	81.01	373.81	1.004	373.94
SB915-MW-36I	Wastebeds 9-15	SOLW	907408.6	1118694.3	453.41	456.19	52.00	-	62.00	401.41	-	391.41	396.41	13.07	443.12	1.002	443.21
SB915-MW-36S	Wastebeds 9-15	SOLW	907404.8	1118697.2	453.56	455.80	8.00	-	18.00	445.56	-	435.56	440.56	7.83	447.97	1.000	447.97
SB915-MW-40S	Wastebeds 9-15	SOLW	914447.4	1122218.7	436.24	439.64	35.00	-	45.00	401.24	-	391.24	396.24	Dry	NA	NA	NA
SB915-MW-42D	Wastebeds 9-15	D	913102.1	1121517.6	435.59	437.28	122.00	-	132.00	313.59	-	303.59	308.59	68.46	368.82	1.040	371.23
SB915-MW-42I	Wastebeds 9-15	SOLW	913108.5	1121520.1	435.63	437.85	59.00	-	69.00	376.63	-	366.63	371.63	49.99	387.86	1.054	388.73
SB915-MW-42S	Wastebeds 9-15	SOLW	913115.5	1121523.1	435.70	437.39	30.00	-	40.00	405.70	-	395.70	400.70	40.03	397.36	1.022	397.38
SB915-MW-43S	Wastebeds 9-15	SOLW	912821.9	1122526.7	436.77	439.44	35.00	-	45.00	401.77	-	391.77	396.77	Dry	NA	NA	NA
SB915-MW-50S	Wastebeds 9-15	SOLW	910255.4	1122740.3	436.29	438.52	25.00	-	35.00	411.29	-	401.29	406.29	Dry	NA	NA	NA
SB915-MW-51S	Wastebeds 9-15	SOLW	910495.3	1122148.3	438.65	440.46	25.00	-	35.00	413.65	-	403.65	408.65	Dry	NA	NA	NA
SB915-MW-53D	Wastebeds 9-15	D	909265.2	1123027.6	435.92	437.96	110.00	-	120.00	325.92	-	315.92	320.92	67.94	370.02	1.000	370.02
SB915-MW-53I	Wastebeds 9-15	SOLW	909254.4	1123030.9	436.43	437.72	61.50	-	71.50	374.93	-	364.93	369.93	49.68	388.04	1.068	389.27
SB915-MW-53S	Wastebeds 9-15	SOLW	909244.6	1123033.7	436.25	438.04	25.00	-	35.00	411.25	-	401.25	406.25	Dry	NA	NA	NA
SB915-MW-59S	Wastebeds 9-15	S	909681.4	1122233.7	378.80	380.82	10.00	-	20.00	368.80	-	358.80	363.80	12.51	368.31	1.012	368.37
SB915-MW-60S	Wastebeds 9-15	S	909452.0	1122405.6	379.37	381.26	10.00	-	20.00	369.37	-	359.37	364.37	12.22	369.04	1.006	369.07
SB915-MW-70D	Wastebeds 9-15	D	910102.9	1121886.8	383.90	385.90	53.00	-	63.00	330.90	-	320.90	325.90	18.82	367.08	1.038	368.64
SB915-MW-70S	Wastebeds 9-15	S	910108.2	1121886.5	384.50	385.83	15.00	-	25.00	369.50	-	359.50	364.50	17.93	367.90	1.014	367.96
SB915-MW-84D	Wastebeds 9-15	D	909884.0	1121843.6	379.99	382.10	54.50	-	64.50	325.49	-	315.49	320.49	14.51	367.59	1.048	369.85
SB915-MW-84S	Wastebeds 9-15	S	909881.2	1121847.5	379.73	381.70	15.00	-	25.00	364.73	-	354.73	359.73	13.99	367.71	1.002	367.73
SB915-MW-85D	Wastebeds 9-15	D	910051.0	1121753.9	378.00	377.16	67.50	-	77.50	310.50	-	300.50	305.50	13.24	363.92	1.056	367.19
SB915-MW-85I	Wastebeds 9-15	I	910046.5	1121757.9	377.90	382.39	44.00	-	54.00	333.90	-	323.90	328.90	12.48	369.91	1.044	371.71
SB915-MW-85S	Wastebeds 9-15	S	910038.7	1121744.5	377.90	379.86	16.00	-	26.00	361.90	-	351.90	356.90	11.69	368.17	1.060	368.85
SB915-MW-87BR	Wastebeds 9-15 SCA	BR	904766.7	1119525.8	400.91	403.29	119.00	-	129.00	281.91	-	271.91	276.91	30.16	373.13	1.024	375.44
SB915-MW-87I	Wastebeds 9-15 SCA	I	904758.3	1119523.6	402.10	403.91	64.00	-	74.00	338.10	-	328.10	333.10	29.14	374.77	1.002	374.86
SB915-MW-87S	Wastebeds 9-15-SCA	S	904761.5	1119535.3	401.21	403.58	25.00	-	35.00	376.21	-	366.21	371.21	29.15	374.43	1.004	374.45
SB915-MW-88BR	Wastebeds 9-15 SCA	BR	905107.2	1120731.1	400.93	402.47	100.00	-	110.00	300.93	-	290.93	295.93	28.51	373.96	1.020	375.52
SB915-MW-88D	Wastebeds 9-15 SCA	D	905102.4	1120727.2	400.48	402.73	59.00	-	69.00	341.48	-	331.48	336.48	28.77	373.96	1.008	374.26
SB915-MW-88I	Wastebeds 9-15 SCA	I	905090.9	1120718.5	400.69	403.43	42.00	-	52.00	358.69	-	348.69	353.69	29.14	374.29	1.004	374.37
SB915-MW-88S	Wastebeds 9-15 SCA	S	905087.4	1120714.7	400.79	403.60	25.00	-	35.00	375.79	-	365.79	370.79	29.37	374.23	1.002	374.24
SB915-MW-89BR	Wastebeds 9-15 SCA	BR	906132.5	1121444.9	399.24	401.11	118.00	-	128.00	281.24	-	271.24	276.24	28.56	372.55	1.020	374.48
SB915-MW-89D	Wastebeds 9-15 SCA	D	906124.8	1121442.7	399.05	401.63	63.00	-	73.00	336.05	-	326.05	331.05	28.23	373.40	1.002	373.48
SB915-MW-89I	Wastebeds 9-15 SCA	I	906119.2	1121441.5	399.15	401.64	43.00	-	53.00	356.15	-	346.15	351.15	28.10	373.54	1.002	373.58
SB915-MW-89S	Wastebeds 9-15 SCA	S	906111.8	1121439.5	399.10	401.57	22.00	-	32.00	377.10	-	367.10	372.10	28.06	373.51	1.002	373.52
SB915-MW-89SR	Wastebeds 9-15 SCA	S	906106.8	1121438.8	399.07	401.56	10.00	-	20.00	389.07	-	379.07	384.07	Dry	NA	NA	NA
SB915-MW-90BR	Wastebeds 9-15 SCA	BR	907636.2	1121519.8	395.97	398.26	119.50	-	129.50	276.47	-	266.47	271.47	27.51	370.75	1.034	374.13
SB915-MW-90I	Wastebeds 9-15 SCA	I	907667.2	1121509.6	395.74	398.85	42.00	-	52.00	353.74	-	343.74	348.74	26.03	372.82	1.006	372.97
SB915-MW-90S	Wastebeds 9-15-SCA	S	907671.1	1121509.0	395.50	397.47	22.00	-	32.00	373.50	-	363.50	368.50	24.63	372.84	1.004	372.85
SB915-MW-91BR	Wastebeds 9-15 SCA	BR	908304.6	1119995.6	447.30	450.24	197.00	-	207.00	250.30	-	240.30	245.30	85.61	364.63	1.090	375.37
SB915-MW-91D	Wastebeds 9-15 SCA	D	908297.6	1119985.4	447.25	449.64	125.00	-	135.00	322.25	-	312.25	317.25	76.53	373.11	1.002	373.22
SB915-MW-91I	Wastebeds 9-15 SCA	D	908291.6	1119975.8	447.17	449.99	115.00	-	125.00	332.17	-	322.17	327.17	76.78	373.21	1.002	373.31
SB915-MW-91S	Wastebeds 9-15 SCA	SOLW	908294.3	1119980.5	447.30	449.87	21.00	-	41.00	426.30	-	406.30	416.30	25.31	424.56	1.022	424.76
SB915-MW-91SN	Wastebeds 9-15 SCA	S	908300.4	1119990.1	447.68	450.47	78.00	-	88.00	369.68	-	359.68	364.68	77.08	373.39	1.012	373.50
SB915-MW-92BR	Wastebeds 9-15 SCA	BR	907275.4	1119280.1	447.79	449.62	184.00	-	194.00	263.79	-	253.79	258.79	78.03	371.59	1.032	375.20
SB915-MW-92D	Wastebeds 9-15 SCA	I	907281.7	1119280.3	447.38	449.85	92.00	-	102.00	355.38	-	345.38	350.38	76.08	373.77	1.004	373.86
SB915-MW-92I	Wastebeds 9-15 SCA	I	907287.3	1119281.5	447.53	449.59	69.00	-	79.00	378.53	-	368.53	373.53	75.85	373.74	1.022	373.79
SB915-MW-92S	Wastebeds 9-15 SCA	SOLW	907293.6	1119282.7	447.43	449.73	28.00	-	48.00	419.43	-	399.43	409.43	23.83	425.90	1.016	426.16
SB915-MW-93BR	Wastebeds 9-15 SCA	BR	908865.2	1121130.5	391.63	393.79	142.00	-	152.00	249.63	-	239.63	244.63	28.29	365.50	1.076	374.68
SB915-MW-93D	Wastebeds 9-15 SCA	D	908882.7	1121124.8	391.71	393.76	52.00	-	62.00	339.71	-	329.71	334.71	22.79	370.97	1.004	371.12
SB915-MW-93I	Wastebeds 9-15 SCA	I	908895.9	1121121.0	391.85	394.57	39.00	-	49.00	352.85	-	342.85	347.85	23.61	370.96	1.002	371.00
SB915-MW-93S	Wastebeds 9-15 SCA	S	908888.9	1121122.9	391.76	394.15	22.00	-	32.00	369.76	-	359.76	364.76	23.21	370.94	1.002	370.95
SB915-MW-94S	Wastebeds 9-15 SCA	S	904859.3	1118797.1	401.02	403.50	20.00	-	30.00	381.02	-	371.02	376.02	22.22	381.28	1.004	381.30
SB915-MW-95S	Wastebeds 9-15 SCA	S	904825.3	1119977.8	402.20	403.99	26.00	-	36.00	376.20	-	366.20	371.20	29.09	374.90	1.020	374.99
SB915-MW-96S	Wastebeds 9-15 SCA	S	904823.7	1120452.5	402.13	404.23	26.00	-	36.00	376.13	-	366.13	371.13	29.83	374.40	1.006	374.42
SB915-MW-97S	Wastebeds 9-15 SCA	S	905388.3	1120984.9	399.81	402.06	25.00	-	35.00	374.81	-	364.81	369.81	28.08	373.98	1.012	374.04
SB915-MW-98S	Wastebeds 9-15 SCA	S	905690.7	1121281.9	397.87	399.94	24.00	-	34.00	373.87	-	363.87	368.87	26.19	373.75	1.002	373.75
SB915-MW-99S	Wastebeds 9-15 SCA	S	906540.8	1121549.1	396.63	399.06	22.00	-	32.00	374.63	-	364.63	369.63	26.33	372.73	1.002	372.74
SB915-MWB-01D	Wastebeds 9-15	D	909558.9	1121719.1	376.57	378.39	79.36	-	89.36	297.21	-	287.21	292.21	9.42	368.97	1.030	371.27
SB915-MWB-01S	Wastebeds 9-15	S	909555.1	1121713.8	376.80	378.92	17.80	-	22.80	359.00	-	354.00	356.50	9.89	369.03	1.004	369.08

Dry - Monitoring well is dry, no water
NA - Not available
NA[1] - Not enough water for Specific Gravity
NA[2] - Monitoring Well is obstructed
NA[3] - Monitoring Well is broken

Table 2
Honeywell
Wastebeds 9-15 Closure Investigation
Monitoring Well Groundwater Elevations

Location ID	Site	Unit	Easting	Northing	Ground Surface Elev (ft)	Top of Casing Elev (ft)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Top of Screen Elev (ft)		Bottom of Screen Elev (ft)	Screen Midpoint Elev (ft)	DTW January 2013	GW Elevation January 2013	Specific Gravity January 2013	Equivalent Fresh Water Head January 2013
SB915-PZ-07D	Wastebeds 9-15	SOLW	910099.0	1120019.5	445.18	447.22	53.00	-	63.00	392.18	-	382.18	387.18	33.19	414.03	1.018	414.52
SB915-PZ-07I	Wastebeds 9-15	SOLW	910100.9	1120024.2	445.20	447.05	30.00	-	40.00	415.20	-	405.20	410.20	24.62	422.43	1.026	422.75
SB915-PZ-07N	Wastebeds 9-15	S	910098.1	1120015.5	445.06	447.27	68.00	-	78.00	377.06	-	367.06	372.06	33.76	413.51	1.050	415.59
SB915-PZ-07S	Wastebeds 9-15	SOLW	910104.6	1120028.1	445.06	446.90	8.00	-	18.00	437.06	-	427.06	432.06	8.38	438.52	1.004	438.55
SB915-WB-01L	Wastebeds 9-15	D	902386.1	1116879.9	403.43	403.12	69.80	-	74.80	333.63	-	328.63	331.13	25.12	378.00	1.000	378.00
SB915-WB-01U	Wastebeds 9-15	S	902290.2	1116863.6	403.40	403.00	34.00	-	39.00	369.40	-	364.40	366.90	25.82	377.18	1.000	377.18
SB915-WB-02L	Wastebeds 9-15	D	904753.1	1119513.2	401.92	402.33	94.00	-	104.00	307.92	-	297.92	302.92	29.98	372.35	1.040	375.13
SB915-WB-02U	Wastebeds 9-15	S	904741.3	1119497.0	400.53	402.73	33.00	-	43.00	367.53	-	357.53	362.53	27.72	375.01	1.000	375.01
SB915-WB-03L	Wastebeds 9-15	D	904631.3	1121623.9	400.92	402.44	66.00	-	76.00	334.92	-	324.92	329.92	28.47	373.97	1.050	376.17
SB915-WB-03U	Wastebeds 9-15	S	904626.0	1121621.5	401.00	403.63	33.20	-	43.20	367.80	-	357.80	362.80	29.40	374.23	1.000	374.23
SB915-WB-04L	Wastebeds 9-15	D	907660.0	1121512.5	395.89	397.46	89.00	-	99.00	306.89	-	296.89	301.89	24.97	372.49	1.010	373.20
SB915-WB-04U	Wastebeds 9-15	S	907654.4	1121514.0	395.83	398.35	28.80	-	38.80	367.03	-	357.03	362.03	25.59	372.76	1.000	372.76
SB915-WB-05L	Wastebeds 9-15	D	910619.4	1121728.9	385.32	387.61	110.00	-	120.00	275.32	-	265.32	270.32	22.57	365.04	1.074	372.05
SB915-WB-05M	Wastebeds 9-15	I	910605.7	1121733.6	385.56	387.73	57.00	-	62.00	328.56	-	323.56	326.06	19.53	368.20	1.014	368.79
SB915-WB-05R	Wastebeds 9-15	BR	910631.0	1121725.2	385.09	387.39	146.50	-	156.10	238.59	-	228.99	233.79	27.34	360.05	1.128	376.22
SB915-WB-05U	Wastebeds 9-15	S	910613.7	1121731.2	385.41	387.90	6.80	-	11.80	378.61	-	373.61	376.11	12.92	374.98	1.012	374.99
SB915-WB-06	Wastebeds 9-15	D	914162.4	1123089.7	382.30	383.38	69.80	-	79.80	312.50	-	302.50	307.50	12.60	370.78	1.010	371.41
SB915-WB-07L	Wastebeds 9-15	D	912147.5	1121340.2	376.71	378.78	72.00	-	77.00	304.71	-	299.71	302.21	10.48	368.30	1.040	370.94
SB915-WB-07R	Wastebeds 9-15	BR	912140.1	1121354.2	376.33	378.08	103.00	-	113.00	273.33	-	263.33	268.33	14.07	364.01	1.100	373.58
SB915-WB-07U	Wastebeds 9-15	S	912145.9	1121344.2	376.61	379.33	48.00	-	53.00	328.61	-	323.61	326.11	9.57	369.76	1.012	370.29
SB915-WB-09L	Wastebeds 9-15	D	914893.2	1121705.4	375.10	377.25	64.00	-	74.00	311.10	-	301.10	306.10	6.20	371.05	1.040	373.65
SB915-WB-09U	Wastebeds 9-15	S	914906.4	1121703.1	374.64	377.75	10.00	-	20.00	364.64	-	354.64	359.64	11.35	366.40	1.000	366.40
SB915-WB-10L	Wastebeds 9-15	D	913634.3	1121298.2	375.30	377.61	64.00	-	74.00	311.30	-	301.30	306.30	6.90	370.71	1.010	371.35
SB915-WB-10U	Wastebeds 9-15	S	913632.7	1121329.4	376.30	378.62	5.00	-	15.00	371.30	-	361.30	366.30	11.25	367.37	1.014	367.41
SB915-WB-15B/15S	Wastebeds 9-15	SOLW	905550.1	1116676.5	447.97	449.68	15.00	-	25.00	432.97	-	422.97	427.97	17.20	432.48	1.002	432.49
WB18-MW-14BR	Wastebeds 1-8	BR	916007.0	1122830.3	374.82	375.85	100.00	-	130.00	274.82	-	244.82	259.82	9.32	366.53	1.080	375.07
WB18-MW-14D	Wastebeds 1-8	D	915989.1	1122852.8	374.84	375.97	50.00	-	60.00	324.84	-	314.84	319.84	6.16	369.81	1.032	371.41

Dry - Monitoring well is dry, no water
NA - Not available
NA[1] - Not enough water for Specific Gravity
NA[2] - Monitoring Well is obstructed
NA[3] - Monitoring Well is broken

Table 3
Honeywell
Wastebeds 9-15 Closure Investigation
Hydraulic Conductivity Analytical Data Summary

Location ID	Date Installed	Ground Surface Elevation (ft above MSL)	Top of Casing Elevation (ft above MSL)	Screened Length (ft)	Slot Size (in)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Top of Screen Elev (ft)		Bottom of Screen Elev (ft)	Zone Screened	Hydraulic Conductivity Slug Tests					
													Date of Slug Test	Estimated Hydraulic Conductivity				Geometric Mean	
														Rising Head		Falling Head			
														(cm/sec)	(ft/d)	(cm/sec)	(ft/d)	(cm/sec)	(ft/d)
SB915-IMW-01S	9/8/2005	376.76	378.53	10	0.010	8.0	-	18.0	368.8	-	358.8	Shallow Native	04/10/12	1.60E-03	4.547	1.75E-03	4.972	1.68E-03	4.755
SB915-IMW-02S	9/7/2005	376.80	378.48	10	0.010	6.0	-	16.0	370.8	-	360.8	Shallow Native	04/16/12	3.85E-05	0.109	4.20E-05	0.119	4.02E-05	0.114
SB915-IMW-03S	9/8/2005	377.30	379.35	15	0.010	9.0	-	24.0	368.3	-	353.3	Shallow Native	04/17/12	5.65E-05	0.160	2.48E-05	0.070	3.74E-05	0.106
SB915-IMW-04S	9/8/2005	375.99	379.57	10	0.010	6.0	-	16.0	370.0	-	360.0	Shallow Native	06/05/12	Obstruction					
SB915-IMW-05S	9/9/2005	376.86	378.81	10	0.010	10.0	-	20.0	366.9	-	356.9	Shallow Native	06/05/12	8.76E-04	2.484	8.74E-04	2.478	8.75E-04	2.481
SB915-IMW-06S	9/9/2005	376.88	378.89	10	0.010	4.0	-	14.0	372.9	-	362.9	Shallow Native	06/05/12	1.22E-03	3.448	1.22E-03	3.448	1.22E-03	3.448
SB915-MW-01	NA	400.39	402.57	10	NA	6.2	-	16.2	394.2	-	384.2	Shallow Native	06/06/12	9.25E-04	2.62	9.50E-04	2.69	9.38E-04	2.66
SB915-MW-03	NA	384.42	386.42	10	NA	24.4	-	34.4	360.1	-	350.1	Shallow Native	06/06/12	1.39E-02	39.28	1.54E-02	43.75	1.46E-02	41.45
SB915-MW-04	NA	377.86	379.02	10	0.010	12.0	-	22.0	365.9	-	355.9	Shallow Native	06/06/12	6.13E-04	1.74	8.46E-04	2.40	7.20E-04	2.04
SB915-MW-100S	7/13/2011	394.71	396.74	10	0.010	22.0	-	32.0	372.7	-	362.7	Shallow Native	08/05/11	3.59E-02	101.834	3.59E-02	101.834	3.59E-02	101.834
SB915-MW-101S	7/13/2011	395.12	397.15	10	0.010	22.0	-	32.0	373.1	-	363.1	Shallow Native	08/05/11	8.26E-02	234.131	3.34E-02	94.718	5.25E-02	148.917
SB915-MW-102S	7/14/2011	393.38	395.81	10	0.010	20.0	-	30.0	373.4	-	363.4	Shallow Native	08/05/11	1.35E-02	38.343	2.32E-02	65.639	1.77E-02	50.168
SB915-MW-103S	7/19/2011	440.45	443.04	10	0.010	68.0	-	78.0	372.5	-	362.5	Shallow Native	08/29/11	1.11E-02	31.355	1.18E-02	33.350	1.14E-02	32.337
SB915-MW-104I	2/15/2012	400.90	402.84	10	0.010	62.0	-	72.0	338.9	-	328.9	Intermediate	03/27/12	2.32E-02	65.821	2.33E-02	65.928	2.32E-02	65.874
SB915-MW-104S	2/14/2012	400.60	402.98	10	0.010	14.0	-	24.0	386.6	-	376.6	Shallow Native (Silt, Clay, f. sand)	06/08/12	1.80E-05	0.051	1.64E-05	0.046	1.72E-05	0.049
SB915-MW-105BR	11/15/2011	463.30	464.66	15	0.010	48.4	-	63.4	414.9	-	399.9	Bedrock	04/13/12	1.04E-02	29.483	1.85E-02	52.329	1.39E-02	39.278
SB915-MW-105S	11/10/2011	463.40	465.15	10	0.010	4.0	-	14.0	459.4	-	449.4	Shallow Native	04/13/12	Dry					
SB915-MW-106I	2/17/2012	379.70	381.92	10	0.010	34.0	-	44.0	345.7	-	335.7	Intermediate	03/28/12	3.11E-04	0.882	3.37E-04	0.957	3.24E-04	0.919
SB915-MW-106S	2/17/2012	379.60	381.69	10	0.010	8.0	-	18.0	371.6	-	361.6	Shallow Native (Silt, Clay, f. sand)	03/27/12	1.06E-04	0.301	1.06E-04	0.301	1.06E-04	0.301
SB915-MW-107BR	12/2/2011	377.00	379.09	10	0.010	120.0	-	130.0	257.0	-	247.0	Bedrock	06/09/12	6.58E-06	0.019	1.02E-05	0.029	8.18E-06	0.023
SB915-MW-107D	12/8/2011	377.00	378.77	10	0.010	96.0	-	106.0	281.0	-	271.0	Deep	04/09/12	4.17E-03	11.835	5.30E-03	15.036	4.71E-03	13.340
SB915-MW-107I	12/11/2011	376.70	378.49	10	0.010	46.0	-	56.0	330.7	-	320.7	Intermediate	04/09/12	6.57E-03	18.634	7.32E-03	20.743	6.93E-03	19.660
SB915-MW-107S	12/13/2011	377.00	378.89	10	0.010	10.0	-	20.0	367.0	-	357.0	Shallow Native	04/09/12	5.17E-05	0.147	6.47E-05	0.183	5.78E-05	0.164
SB915-MW-108BR	1/4/2012	398.20	400.51	10	0.010	83.0	-	93.0	315.2	-	305.2	Bedrock	06/13/12	8.14E-05	0.231	8.14E-05	0.231	8.14E-05	0.231
SB915-MW-108D	1/5/2012	397.50	400.42	10	0.010	52.0	-	62.0	345.5	-	335.5	Deep	04/05/12	7.57E-03	21.458	6.87E-03	19.467	7.21E-03	20.438
SB915-MW-108S	1/6/2012	397.90	400.24	10	0.010	15.0	-	25.0	382.9	-	372.9	Shallow Native	03/06/12	3.24E-04	0.919	2.98E-04	0.844	3.11E-04	0.881
SB915-MW-109I	2/2/2012	384.10	385.86	10	0.010	43.0	-	53.0	341.1	-	331.1	Intermediate	04/05/12	4.47E-05	0.127	5.57E-05	0.158	4.99E-05	0.141
SB915-MW-109S	2/3/2012	384.10	386.03	10	0.010	4.0	-	14.0	380.1	-	370.1	Shallow Native	03/27/12	3.97E-02	112.414	5.23E-02	148.297	4.55E-02	129.115
SB915-MW-110S	2/6/2012	377.30	379.00	10	0.010	8.0	-	18.0	369.3	-	359.3	Shallow Native (Silt, Clay, f. sand)	03/06/12	7.07E-04	2.004	7.69E-04	2.179	7.37E-04	2.090
SB915-MW-111BR	1/16/2012	375.70	377.35	10	0.010	131.0	-	141.0	244.7	-	234.7	Bedrock	06/12/12	1.11E-05	0.031	1.19E-05	0.034	1.15E-05	0.033
SB915-MW-111D	1/23/2012	375.60	377.42	10	0.010	87.0	-	97.0	288.6	-	278.6	Deep	04/06/12	1.42E-02	40.296	1.42E-02	40.392	1.42E-02	40.344
SB915-MW-111I	1/25/2012	375.30	377.54	10	0.010	54.0	-	64.0	321.3	-	311.3	Intermediate	04/06/12	8.96E-03	25.394	9.52E-03	26.975	9.23E-03	26.172
SB915-MW-111S	1/26/2012	375.60	377.62	10	0.010	13.0	-	23.0	362.6	-	352.6	Shallow Native	04/06/12	3.06E-04	0.867	1.55E-04	0.440	2.18E-04	0.618
SB915-MW-112I	1/31/2012	383.90	385.91	10	0.010	50.0	-	60.0	333.9	-	323.9	Intermediate	Not Calculated						
SB915-MW-112S	1/27/2012	383.80	385.77	10	0.010	10.0	-	20.0	373.8	-	363.8	Shallow Native	04/06/12	9.82E-04	2.783	*	*	9.82E-04	2.783
SB915-MW-113S	2/10/2012	375.20	377.07	10	0.010	18.0	-	28.0	357.2	-	347.2	Shallow Native	04/06/12	8.55E-04	2.425	3.02E-04	0.855	5.08E-04	1.440
SB915-MW-114BR	11/3/2011	459.30	461.78	10	0.010	27.0	-	37.0	432.3	-	422.3	Bedrock	04/13/12	Dry	Dry	Dry	Dry	Dry	Dry
SB915-MW-115BR	11/4/2011	378.08	380.35	10	0.010	79.0	-	89.0	299.1	-	289.1	Bedrock	06/07/12	1.47E-03	4.178	1.34E-03	3.792	1.40E-03	3.980
SB915-MW-116S	2/13/2012	375.20	376.86	10	0.010	8.0	-	18.0	367.2	-	357.2	Shallow Native (Silt, Clay, f. sand)	03/28/12	2.36E-04	0.669	2.55E-04	0.723	2.45E-04	0.696
SB915-MW-117S	2/20/2012	379.80	381.51	10	0.010	14.0	-	24.0	365.8	-	355.8	Shallow Native (Silt, Clay, f. sand)	03/28/12	2.75E-05	0.078	3.75E-05	0.106	3.21E-05	0.091
SB915-MW-118BR	11/7/2011	380.50	382.35	10	0.010	47.0	-	57.0	333.5	-	323.5	Bedrock	03/06/12	2.03E-02	57.669	1.82E-02	51.647	1.93E-02	54.575
SB915-MW-118S	11/8/2011	380.50	382.59	10	0.010	4.0	-	14.0	376.5	-	366.5	Shallow Native (Silt, Clay, f. sand)	03/28/12	7.38E-05	0.209	7.15E-05	0.203	7.26E-05	0.206
SB915-MW-36D	7/26/2006	454.26	454.82	10	0.010	108.0	-	118.0	346.3	-	336.3	Deep	06/07/12	3.89E-03	11.03	4.26E-03	12.09	4.07E-03	11.55
SB915-MW-36I	7/26/2006	453.41	456.19	10	0.010	52.0	-	62.0	401.4	-	391.4	Solvay Waste	06/07/12	6.93E-05	0.20	7.20E-05	0.20	7.07E-05	0.20
SB915-MW-36S	7/26/2006	453.56	455.80	10	0.010	8.0	-	18.0	445.6	-	435.6	Solvay Waste	06/07/12	1.93E-03	5.47	5.56E-03	15.76	3.28E-03	9.29
SB915-MW-40S	6/13/2006	436.24	439.64	10	0.010	35.0	-	45.0	401.2	-	391.2	Solvay Waste	04/04/12	2.09E-03	5.93	*	*	2.09E-03	5.93
SB915-MW-42D	5/24/2006	435.59	437.28	10	0.010	122.0	-	132.0	313.6	-	303.6	Deep	04/03/12	4.68E-03	13.27	3.96E-03	11.24	4.31E-03	12.21
SB915-MW-42I	5/24/2006	435.63	437.85	10	0.010	59.0	-	69.0	376.6	-	366.6	Solvay Waste	04/03/12	1.01E-05	0.03	1.29E-05	0.04	1.14E-05	0.03
SB915-MW-42S	5/24/2006	435.70	437.39	10	0.010	30.0	-	40.0	405.7	-	395.7	Solvay Waste	04/03/12	1.77E-04	0.50	*	*	1.77E-04	0.50
SB915-MW-43S	6/15/2006	436.77	439.44	10	0.010	35.0	-	45.0	401.8	-	391.8	Solvay Waste	04/04/12	1.36E-03	3.87	1.60E-03	4.54	1.48E-03	4.19
SB915-MW-50S	5/3/2006	436.29	438.52	10	0.010	25.0	-	35.0	411.3	-	401.3	Solvay Waste	03/08/12	Dry					
SB915-MW-51S	4/13/2006	438.65	440.46	10	0.010	25.0	-	35.0	413.6	-	403.6	Solvay Waste	03/08/12	Dry					
SB915-MW-53D	4/11/2006	435.92	437.96	10	0.010	110.0	-	120.0	325.9	-	315.9	Deep	03/08/12	4.61E-02	130.62	4.45E-02	126.02	4.53E-02	128.30
SB915-MW-53I	4/11/2006	436.43	437.72	10	0.010	61.5	-	71.5	374.9	-	364.9	Solvay Waste	03/23/12	1.79E-05	0.05	4.04E-05	0.11	2.69E-05	0.08
SB915-MW-53S	4/11/2006	436.25	438.04	10	0.010	25.0	-	35.0	411.2	-	401.2	Solvay Waste	03/08/12	3.62E-05	0.10	6.63E-04	1.88	1.55E-04	0.44
SB915-MW-59S	10/9/2006	378.80	380.82	10	0.010	10.0	-	20.0	368.8	-	358.8	Shallow Native	03/07/12	6.63E-02	187.85	*	*	6.63E-02	187.85
SB915-MW-60S	10/9/2006	379.37	381.26	10	0.010	10.0	-	20.0	369.4	-	359.4	Shallow Native	03/07/12	9.47E-03	26.85	8.55E-03	24.23	9.00E-03	25.51
SB915-MW-70D	12/19/2006	383.90	385.90	10	0.010	53.0	-	63.0	330.9	-	320.9	Deep	03/07/12	3.40E-02	96.26	4.38E-02	124.26	3.86E-02	109.37
SB915-MW-70S	10/13/2006	384.50	385.83	10	0.010	15.0	-	25.0	369.5	-	359.5	Shallow Native	03/07/12	2.67E-02	75.70	*	*	2.67E-02	75.70
SB915-MW-85D	10/24/2008	378.00	377.16	10	0.010	67.5	-	77.5	310.5	-	300.5	Deep	04/12/12	2.48E-02	70.31	3.12E-02	88.55	2.78E-02	78.91

Table 3
Honeywell
Wastebeds 9-15 Closure Investigation
Hydraulic Conductivity Analytical Data Summary

Location ID	Date Installed	Ground Surface Elevation (ft above MSL)	Top of Casing Elevation (ft above MSL)	Screened Length (ft)	Slot Size (in)	Top of Screen Depth (ft)		Bottom of Screen Depth (ft)	Top of Screen Elev (ft)		Bottom of Screen Elev (ft)	Zone Screened	Hydraulic Conductivity Slug Tests					
													Date of Slug Test	Estimated Hydraulic Conductivity				Geometric Mean	
														Rising Head		Falling Head			
														(cm/sec)	(ft/d)	(cm/sec)	(ft/d)	(cm/sec)	(ft/d)
SB915-MW-87BR	10/6/2010	400.91	403.29	10	0.010	119.0	-	129.0	281.9	-	271.9	Bedrock	03/30/11	1.41E-04	0.40	1.42E-04	0.40	1.41E-04	0.40
SB915-MW-87I	2/3/2011	402.10	403.91	10	0.010	64.0	-	74.0	338.1	-	328.1	Intermediate	03/30/11	1.52E-02	43.2	1.50E-02	42.6	1.51E-02	42.9
SB915-MW-87S	7/6/2011	401.21	403.58	10	0.010	25.0	-	35.0	376.2	-	366.2	Shallow Native	08/05/11	4.17E-02	118.2	3.75E-02	106.5	3.96E-02	112.2
SB915-MW-88BR	1/11/2011	400.93	402.47	10	0.010	100.0	-	110.0	300.9	-	290.9	Bedrock	03/31/11	5.54E-05	0.16	6.84E-05	0.19	6.15E-05	0.17
SB915-MW-88D	2/16/2011	400.48	402.73	10	0.010	59.0	-	69.0	341.5	-	331.5	Deep	03/31/11	3.56E-03	10.1	3.58E-03	10.1	3.57E-03	10.1
SB915-MW-88I	2/17/2011	400.69	403.43	10	0.010	42.0	-	52.0	358.7	-	348.7	Intermediate	03/31/11	3.12E-02	88.4	3.15E-02	89.4	3.14E-02	88.9
SB915-MW-88S	2/18/2011	400.79	403.60	10	0.010	25.0	-	35.0	375.8	-	365.8	Shallow Native	03/31/11	1.09E-01	310.4	1.38E-01	390.5	1.23E-01	348.1
SB915-MW-89BR	1/28/2011	399.24	401.11	10	0.010	118.0	-	128.0	281.2	-	271.2	Bedrock	03/31/11	7.95E-04	2.3	7.97E-04	2.3	7.96E-04	2.3
SB915-MW-89D	2/16/2011	399.05	401.63	10	0.010	63.0	-	73.0	336.0	-	326.0	Deep	03/31/11	6.77E-03	19.2	6.32E-03	17.9	6.55E-03	18.6
SB915-MW-89I	2/11/2011	399.15	401.64	10	0.010	43.0	-	53.0	356.1	-	346.1	Intermediate	03/31/11	1.57E-03	4.5	2.65E-03	7.5	2.04E-03	5.8
SB915-MW-89S	2/14/2011	399.10	401.57	10	0.010	22.0	-	32.0	377.1	-	367.1	Shallow Native	03/31/11	2.09E-02	59.3	*	*	2.09E-02	59.3
SB915-MW-89SR	2/14/2011	399.07	401.56	10	0.010	10.0	-	20.0	389.1	-	379.1	Shallow Native	03/31/11	Dry					
SB915-MW-90BR	11/3/2010	395.97	398.26	10	0.010	119.5	-	129.5	276.5	-	266.5	Bedrock	03/30/11	5.08E-05	0.14	5.99E-05	0.17	5.52E-05	0.16
SB915-MW-90I	2/7/2011	395.74	398.85	10	0.010	42.0	-	52.0	353.7	-	343.7	Intermediate	03/30/11	3.40E-03	9.6	5.09E-03	14.4	4.16E-03	11.8
SB915-MW-90S	7/14/2011	395.50	397.47	10	0.010	22.0	-	32.0	373.5	-	363.5	Shallow Native	08/05/11	2.31E-02	65.3	2.75E-02	78.1	2.52E-02	71.4
SB915-MW-91BR	2/28/2011	447.30	450.24	10	0.010	197.0	-	207.0	250.3	-	240.3	Bedrock	04/01/11	2.75E-06	0.008	7.02E-06	0.02	4.39E-06	0.01
SB915-MW-91D	2/2/2011	447.25	449.64	10	0.010	125.0	-	135.0	322.3	-	312.3	Deep	03/31/11	7.59E-04	2.2	1.09E-03	3.1	9.10E-04	2.6
SB915-MW-91I	2/8/2011	447.17	449.99	10	0.010	115.0	-	125.0	332.2	-	322.2	Deep	03/31/11	2.09E-02	59.2	2.13E-02	60.4	2.11E-02	59.8
SB915-MW-91S	2/3/2011	447.30	449.87	20	0.010	21.0	-	41.0	426.3	-	406.3	Solvay Waste	03/31/11	4.16E-05	0.118	4.90E-05	0.14	4.52E-05	0.13
SB915-MW-91SN	1/27/2011	447.68	450.47	10	0.010	78.0	-	88.0	369.7	-	359.7	Shallow Native	03/31/11	4.61E-05	0.13	6.94E-05	0.20	5.66E-05	0.16
SB915-MW-92BR	2/22/2011	447.79	449.62	10	0.010	184.0	-	194.0	263.8	-	253.8	Bedrock	04/01/11	1.23E-07	0.0003	1.52E-07	0.0004	1.37E-07	0.0004
SB915-MW-92D	1/19/2011	447.38	449.85	10	0.010	92.0	-	102.0	355.4	-	345.4	Intermediate	04/01/11	3.61E-04	1.02	3.53E-04	1.00	3.57E-04	1.01
SB915-MW-92I	1/20/2011	447.53	449.59	10	0.010	69.0	-	79.0	378.5	-	368.5	Intermediate	04/01/11	9.74E-06	0.03	*	*	9.74E-06	0.03
SB915-MW-92S	1/26/2011	447.43	449.73	20	0.010	28.0	-	48.0	419.4	-	399.4	Solvay Waste	04/01/11	1.92E-06	0.005	2.27E-06	0.006	2.09E-06	0.006
SB915-MW-93BR	8/2/2011	391.63	393.79	10	0.010	142.0	-	152.0	249.6	-	239.6	Bedrock	08/29/11	7.34E-06	0.021	9.90E-06	0.028	8.53E-06	0.024
SB915-MW-93D	7/13/2011	391.71	393.76	10	0.010	52.0	-	62.0	339.7	-	329.7	Deep	08/05/11	8.03E-03	22.755	7.17E-03	20.336	7.59E-03	21.511
SB915-MW-93I	7/2/2011	391.85	394.57	10	0.010	39.0	-	49.0	352.8	-	342.8	Intermediate	08/29/11	5.80E-03	16.454	5.09E-03	14.431	5.44E-03	15.409
SB915-MW-93S	7/14/2011	391.76	394.15	10	0.010	22.0	-	32.0	369.8	-	359.8	Shallow Native	08/05/11	1.37E-02	38.914	1.34E-02	38.094	1.36E-02	38.502
SB915-MW-94S	7/6/2011	401.02	403.50	10	0.010	20.0	-	30.0	381.0	-	371.0	Shallow Native	08/05/11	9.84E-04	2.790	8.23E-04	2.333	9.00E-04	2.551
SB915-MW-95S	7/7/2011	402.20	403.99	10	0.010	26.0	-	36.0	376.2	-	366.2	Shallow Native	08/05/11	9.21E-02	261.166	8.08E-02	228.938	8.63E-02	244.522
SB915-MW-96S	7/8/2011	402.13	404.23	10	0.010	26.0	-	36.0	376.1	-	366.1	Shallow Native	08/05/11	4.12E-02	116.926	3.31E-02	93.806	3.69E-02	104.730
SB915-MW-97S	7/11/2011	399.81	402.06	10	0.010	25.0	-	35.0	374.8	-	364.8	Shallow Native	08/05/11	7.47E-02	211.749	9.99E-02	283.248	8.64E-02	244.903
SB915-MW-98S	7/11/2011	397.87	399.94	10	0.010	24.0	-	34.0	373.9	-	363.9	Shallow Native	08/05/11	2.01E-02	56.883	2.98E-02	84.598	2.45E-02	69.370
SB915-MW-99S	7/12/2011	396.63	399.06	10	0.010	22.0	-	32.0	374.6	-	364.6	Shallow Native	08/05/11	9.99E-02	283.235	6.16E-02	174.564	7.84E-02	222.357
SB915-PZ-07D	7/21/2004	445.18	447.22	10	0.010	53.0	-	63.0	392.2	-	382.2	Solvay Waste	06/12/12	3.63E-05	0.103	4.02E-05	0.114	3.82E-05	0.108
SB915-PZ-07I	7/21/2004	445.20	447.05	10	0.010	30.0	-	40.0	415.2	-	405.2	Solvay Waste	06/11/12	2.42E-04	0.685	2.42E-04	0.685	2.42E-04	0.685
SB915-PZ-07S	7/21/2004	445.06	446.90	10	0.010	8.0	-	18.0	437.1	-	427.1	Solvay Waste	06/11/12	5.03E-03	14.267	4.96E-03	14.055	4.99E-03	14.160
SB915-WB-01L	11/12/1987	403.43	403.12	5	NA	69.8	-	74.8	333.6	-	328.6	Deep	04/09/12	1.20E-02	33.996	4.87E-03	13.793	2.60E-04	0.737
SB915-WB-02L	11/25/1987	401.92	402.33	10	0.010	94.0	-	104.0	307.9	-	297.9	Deep	03/30/11	1.66E-01	470.6	2.78E-01	788.1	2.15E-01	609.0
SB915-WB-02U	10/12/1987	400.53	402.73	10	0.010	33.0	-	43.0	367.5	-	357.5	Shallow Native	03/30/11	2.59E-01	734.3	2.09E-01	592.5	2.33E-01	659.6
SB915-WB-03L	10/5/1987	400.92	402.44	10	NA	66.0	-	76.0	334.9	-	324.9	Deep	04/13/12	1.27E-03	3.6	1.30E-03	3.7	1.29E-03	3.6
SB915-WB-03U	10/26/1987	401.00	403.63	10	NA	33.2	-	43.2	367.8	-	357.8	Shallow Native	04/13/12	2.82E-02	79.9	2.85E-02	80.8	2.83E-02	80.3
SB915-WB-04L	10/15/1987	395.89	397.46	10	0.010	89.0	-	99.0	306.9	-	296.9	Deep	03/30/11	9.79E-02	277.5	9.57E-02	271.3	9.68E-02	274.4
SB915-WB-04U	10/16/1987	395.83	398.35	10	0.010	28.8	-	38.8	367.0	-	357.0	Shallow Native	03/30/11	2.65E-01	751.3	3.27E-01	927.0	2.94E-01	834.5
SB915-WB-05L	10/22/1987	385.32	387.61	10	0.010	110.0	-	120.0	275.3	-	265.3	Deep	03/09/12	1.05E-02	29.7	1.03E-02	29.2	1.04E-02	29.5
SB915-WB-05M	11/11/1987	385.56	387.73	5	0.010	57.0	-	62.0	328.6	-	323.6	Intermediate	03/07/12	8.89E-03	25.2	1.21E-02	34.3	1.04E-02	29.4
SB915-WB-05R	12/16/1993	385.09	387.39	9.6	0.010	146.5	-	156.1	238.6	-	229.0	Bedrock	06/13/12	*	*	4.60E-05	0.1	4.60E-05	0.1
SB915-WB-05U	10/23/1987	385.41	387.90	5	0.010	6.8	-	11.8	378.6	-	373.6	Shallow Native	03/07/12	4.29E-03	12.2	*	*	4.29E-03	12.2
SB915-WB-06	10/29/1987	382.30	383.38	10	0.010	69.8	-	79.8	312.5	-	302.5	Deep	04/12/12	1.31E-03	3.7	1.39E-03	3.9	1.35E-03	3.8
SB915-WB-07L	11/9/1987	376.71	378.78	5	0.010	72.0	-	77.0	304.7	-	299.7	Deep	06/05/12	1.00E-02	28.5	6.14E-03	17.4	7.85E-03	22.3
SB915-WB-07R	12/20/2011	376.33	378.08	10	0.010	103.0	-	113.0	273.3	-	263.3	Bedrock	06/14/12	4.67E-06	0.013	6.45E-06	0.018	5.49E-06	0.016
SB915-WB-07U	11/10/1987	376.61	379.33	5	0.010	48.0	-	53.0	328.6	-	323.6	Shallow Native	06/05/12	5.27E-05	0.1	8.40E-05	0.2	6.65E-05	0.2
SB915-WB-09L	2/8/2012	375.10	377.25	10	0.010	64.0	-	74.0	311.1	-	301.1	Deep	06/05/12	1.01E-02	28.714	1.01E-02	28.714	1.01E-02	28.714
SB915-WB-09U	10/27/1997	374.64	377.75	10	0.010	10.0	-	20.0	364.6	-	354.6	Shallow Native	04/11/12	Obstruction					
SB915-WB-10L	2/7/2012	375.30	377.61	10	0.010	64.0	-	74.0	311.3	-	301.3	Deep	04/12/12	4.84E-03	13.715	7.05E-03	19.992	5.84E-03	16.558
SB915-WB-10U	10/27/1997	376.30	378.62	10	0.010	5.0	-	15.0	371.3	-	361.3	Shallow Native	04/12/12	8.08E-06	0.023	1.41E-05	0.040	1.07E-05	0.030
SB915-WB-BL	NA	382.20	384.00	5	NA	80.4	-	85.4	301.8	-	296.8	Till	NA	NA	NA	NA	NA	2.60E-04	0.737
WB18-MW-14BR	3/30/2007	374.82	375.85	30	0.010	100.0	-	130.0	274.8	-	244.8	Bedrock	06/05/12	6.17E-03	17.499	6.23E-03	17.673	6.20E-03	17.586
WB18-MW-14D	1/25/2006	374.84	375.97	10	0.010	50.0	-	60.0	324.8	-	314.8	Deep	06/12/12	1.90E-05	0.054	3.56E-05	0.101	2.60E-05	0.074

Table 3
Honeywell
Wastebeds 9-15 Closure Investigation
Hydraulic Conductivity Analytical Data Summary

Geologic Unit	Zone	Elevation of Zone Screened Range (ft above MSL)	Estimated Hydraulic Conductivity Range (cm/sec)			Estimated Hydraulic Conductivity Range (ft/day)			Geometric Mean (cm/sec)	Geometric Mean (ft/day)
Solvay Waste	Shallow Fill Zone	364.9 - 445.6	1.92E-06	-	5.56E-03	0.005	-	15.76	1.03E-04	0.29
Glaciolacustrine Deposits (Silt, clay, f sand)	Shallow Native Zone	355.8 - 386.6	1.64E-05	-	7.69E-04	0.046	-	2.18	1.12E-04	0.32
Mixed Nine Mile (Gravel and Sand)	Shallow Native Zone	363.5 - 459.4	8.08E-06	-	3.27E-01	0.023	-	927.0	1.63E-03	4.61
Mixed Nine Mile (Gravel and Sand)	Intermediate Zone	335.6 - 378.5	9.74E-06	-	3.15E-02	0.028	-	89.4	5.54E-04	1.57
Mixed Nine Mile (Gravel and Sand)	Deep Zone	265.3 - 346.3	1.90E-05	-	2.78E-01	0.054	-	788.1	2.30E-03	6.52
Till	Till Zone	296.8 - 301.8	2.60E-04			0.737			NA	NA
Bedrock	Bedrock Zone	229.0 - 432.3	1.23E-07	-	2.03E-02	3.49E-04	-	57.7	5.01E-05	0.14

* - Only rising test performed
** - Only Falling test performed
NA - No data
High K-Test Evaluation

Table 4
Honeywell
Wastebeds 9-15 Closure Investigation
Subsurface Leachate Water Quality Measurements

Location	Sample Date	pH S.U.	Conductivity mS/cm	Temperature °C	Dissolved Oxygen mg/L	Turbidity NTU
Round 1 - May 2012						
SB915-MH-01	5/9/2012	9.60	9.97	13.37	10.03	62.7
SB915-MH-02	5/9/2012	9.96	9.72	16.84	5.38	38.3
SB915-MH-03	5/9/2012	9.87	14.4	14.91	2.18	45.6
SB915-MH-04	5/10/2012	9.63	18.1	11.80	6.17	1.80
SB915-MH-05	5/10/2012	10.14	18.5	11.44	8.42	1.80
SB915-MH-06	5/11/2012	10.31	17.8	11.34	7.61	8.80
SB915-MH-07	5/10/2012	10.46	17.9	12.91	10.89	6.10
SB915-MH-08	5/10/2012	10.25	17.3	11.45	9.37	62.0
SB915-MH-09	5/10/2012	10.62	16.5	11.25	10.90	4.40
SB915-MH-10	5/9/2012	11.63	20.9	11.93	7.07	5.30
SB915-MH-11	5/9/2012	10.90	18.9	16.00	14.11	20.3
SB915-MH-12	5/10/2012	10.61	25.2	11.89	7.05	1.50
SB915-MH-13	5/10/2012	10.49	25.0	11.77	6.05	1.70
SB915-MH-14	5/11/2012	10.43	23.2	11.84	6.20	2.20
SB915-MH-15	5/11/2012	10.59	8.38	13.02	11.20	14.5
SB915-MH-16	5/11/2012	10.03	8.36	11.60	11.80	4.20
SB915-MH-17	Location not sampled; Insufficient flow(<0.1" deep)					
SB915-MH-18	5/11/2012	7.24	13.3	10.68	6.20	12.7
SB915-PCP-01	5/9/2012	9.91	9.33	16.92	8.54	115
SB915-PCP-02	Sample location not installed.					
SB915-PCP-03	Sample location not installed.					
Round 2 - August 2012						
SB915-MH-01	8/22/2012	10.31	22.4	19.75	10.43	3.20
SB915-MH-02	8/22/2012	10.71	20.4	20.36	8.78	0.00
SB915-MH-03	8/22/2012	10.26	45.8	23.87	8.50	2.40
SB915-MH-04	8/22/2012	10.25	45.3	27.00	11.56	17.6
SB915-MH-05	8/22/2012	10.67	46.2	22.64	11.20	0.80
SB915-MH-06	8/22/2012	9.94	45.5	24.49	10.52	1.00
SB915-MH-07	8/23/2012	9.94	45.7	23.36	10.50	130
SB915-MH-08	8/23/2012	9.27	44.7	24.38	12.75	25.4
SB915-MH-09	8/23/2012	8.53	46.9	20.61	12.73	26.4
SB915-MH-10	8/23/2012	9.08	53.3	19.47	13.70	3.60
SB915-MH-11	8/23/2012	10.95	57.6	18.52	9.04	3.90
SB915-MH-12	8/23/2012	10.63	72.9	19.31	11.53	12.2
SB915-MH-13	8/23/2012	10.81	61.8	11.15	8.30	37.1
SB915-MH-14	8/23/2012	11.13	61.8	20.60	7.29	32.3
SB915-MH-15	8/23/2012	11.07	55.3	25.17	8.47	58.3
SB915-MH-16	8/23/2012	10.30	15.7	24.16	9.79	642
SB915-MH-17	Location not sampled; Insufficient flow(<0.1" deep)					
SB915-MH-18	8/23/2012	8.38	18.3	21.96	7.30	18
SB915-PCP-01	Location not sampled; No flow observed					
SB915-PCP-02	Location not sampled; No flow observed					
SB915-PCP-03	Sample location not installed.					

Table 4
Honeywell
Wastebeds 9-15 Closure Investigation
Subsurface Leachate Water Quality Measurements

Location	Sample Date	pH S.U.	Conductivity mS/cm	Temperature °C	Dissolved Oxygen mg/L	Turbidity NTU
Round 3 - December 2012						
SB915-MH-01	12/11/2012	7.41	9.83	8.94	11.00	11.5
SB915-MH-02	12/11/2012	7.48	1.01	8.55	12.02	11.8
SB915-MH-03	12/11/2012	7.27	7.13	8.05	11.10	12.6
SB915-MH-04	12/11/2012	7.63	10.3	7.61	11.01	27.1
SB915-MH-05	12/11/2012	7.66	10.4	7.65	10.87	28.5
SB915-MH-06	12/11/2012	11.52	13.6	7.78	11.02	95.0
SB915-MH-07	12/11/2012	7.84	10.7	7.51	10.62	350
SB915-MH-08	12/11/2012	9.50	10.1	6.82	10.24	105
SB915-MH-09	12/11/2012	8.62	9.88	7.49	13.95	69.0
SB915-MH-10	12/11/2012	10.02	16.9	7.69	10.95	90.7
SB915-MH-11	12/11/2012	11.12	29.3	7.67	8.45	77.4
SB915-MH-12	12/11/2012	10.57	23.5	7.15	11.19	38.2
SB915-MH-13	12/11/2012	8.86	23.4	7.21	12.31	26.2
SB915-MH-14	12/12/2012	8.47	21.9	12.59	8.08	52.8
SB915-MH-15	12/12/2012	8.17	21.0	10.74	9.31	330
SB915-MH-16	12/12/2012	8.35	2.44	10.02	11.69	69.7
SB915-MH-17	12/11/2012	8.68	2.10	7.08	15.63	55.8
SB915-MH-18	12/11/2012	9.66	3.55	7.01	10.67	12.0
SB915-PCP-01	12/12/2012	8.05	10.3	7.15	12.17	353
SB915-PCP-02	Location not sampled; No flow observed					
SB915-PCP-03	Sample location not installed.					
Round 4 - February 2013						
SB915-MH-01	2/26/2013	12.54	8.51	8.33	7.54	5.90
SB915-MH-02	2/26/2013	12.74	8.44	8.82	6.33	0.30
SB915-MH-03	2/26/2013	12.52	10.6	8.09	5.50	0.10
SB915-MH-04	2/26/2013	12.49	10.3	7.67	7.26	0
SB915-MH-05	2/26/2013	12.15	10.2	7.72	5.47	0
SB915-MH-06	2/26/2013	12.73	10.7	7.98	6.40	0
SB915-MH-07	2/26/2013	12.17	10.1	7.93	5.82	0
SB915-MH-08	2/26/2013	11.86	10.2	8.75	7.70	68.0
SB915-MH-09	2/26/2013	12.01	10.2	8.06	5.74	461
SB915-MH-10	2/26/2013	12.85	19.7	8.51	6.30	68.1
SB915-MH-11	2/26/2013	13.10	31.2	8.71	5.60	20.1
SB915-MH-12	2/26/2013	12.66	32.1	7.77	6.80	10.4
SB915-MH-13	2/26/2013	12.68	28.4	7.17	6.57	3.60
SB915-MH-14	2/27/2013	10.52	22.1	7.67	10.59	2.00
SB915-MH-15	2/27/2013	10.50	4.22	8.16	8.89	34.7
SB915-MH-16	2/27/2013	10.21	3.28	7.30	7.73	2.00
SB915-MH-17	2/27/2013	9.70	1.23	5.74	10.48	0
SB915-MH-18	2/27/2013	9.22	1.16	5.08	8.60	0
SB915-PCP-01	2/27/2013	9.67	5.08	5.09	12.54	48.7
SB915-PCP-02	2/27/2013	12.06	29.7	7.80	8.67	479
SB915-PCP-03	Sample location not installed.					

Table 5
Honeywell
Wastebeds 9-15 Closure Investigation
Surface Water Quality Measurements

Location	Sample Date	pH	Conductivity ms/cm	Temperature °C	Dissolved Oxygen mg/L	Turbidity NTU
Round 1 - July 2012						
NMC: Ref. Reach	7/20/2010	8.19	0.926	21.63	11.86	15
Nmc: Reach A	7/20/2010	8.21	9.26	21.20	12.70	44
Nmc: Reach B	7/20/2010	8.16	0.928	21.39	12.47	5.9
Nmc: Reach C	7/20/2010	8.23	1.17	22.06	12.01	0.9
Nmc: Reach D	7/20/2010	8.10	1.57	22.18	7.33	3.0
Nmc: Reach E	7/20/2010	8.09	2.88	22.46	9.92	0.8
Nmc: Reach F	7/20/2010	7.77	3.07	22.71	8.73	10.7
Outfall 011	Location not sampled; No flow observed.					
Outfall 017	Location not sampled; Dry.					
Outfall 018	Location not sampled; Dry.					
Outfall 019	Location not sampled; No flow observed.					
Gravel Pit	7/18/2012	8.83	1.33	30.58	8.46	0
Retention Pond #1	7/18/2012	7.40	29.2	30.53	5.46	0
Retention Pond #2 loc 1	7/18/2012	7.54	21.8	31.35	7.04	0
Retention Pond #2 loc 2	7/18/2012	7.59	21.7	31.53	7.11	0
Iron Brook	7/18/2012	7.51	10.1	24.15	5.76	4.2
Ponded Area N of wb11	7/18/2012	7.94	27.6	32.37	5.51	53
Interbed Area loc 1	7/18/2012	7.41	18.0	31.47	5.55	4.7
Interbed Area loc 2	7/18/2012	7.37	18.6	31.73	4.43	0.9
Interbed Area loc 3	7/18/2012	7.53	19.2	32.21	6.23	2.9
Round 2 - September 2012						
NMC: Ref. Reach	9/24/2012	7.97	1.32	16.5	20.30	16.8
NMC: Reach A	9/24/2012	8.06	1.2	15.28	20.80	22.1
NMC: Reach B	9/24/2012	8.11	1.19	15.23	16.10	15.8
NMC: Reach C	9/24/2012	8.09	1.84	15.78	31.64	16.7
NMC: Reach D	9/24/2012	8.12	1.75	15.9	29.40	16.2
NMC: Reach E	9/24/2012	7.95	3.02	16.05	29.42	17.5
NMC: Reach F	9/24/2012	7.92	2.96	17.14	25.28	21.9
Outfall 011	Location not sampled; No flow observed.					
Outfall 017	Location not sampled; No flow observed.					
Outfall 018	Location not sampled; Dry.					
Outfall 019	Location not sampled; No flow observed.					
Gravel Pit	9/24/2012	8.73	1.05	19.8	28.44	26.9
Retention Pond #1	9/25/2012	7.38	23.7	19.26	19.85	9.8
Retention Pond #2_Loc 1	9/25/2012	7.54	19.3	19.27	17.14	0
Retention Pond #2_Loc 2	9/25/2012	7.53	19.5	19.6	35.07	7.3
Iron Brook	9/24/2012	7.20	9.62	16.4	9.28	2.9
Ponded Area N of WB11	9/25/2012	7.75	16.3	16.78	14.02	17.3
Interbed Area_Loc 1	9/25/2012	7.58	15.8	17.8	21.33	14.3
Interbed Area_Loc 2	9/25/2012	7.41	7.41	18.75	17.82	14.3
Interbed Area_Loc 3	9/25/2012	7.38	7.38	18.24	18.73	5.8

Table 5
Honeywell
Wastebeds 9-15 Closure Investigation
Surface Water Quality Measurements

Location	Sample Date	pH	Conductivity ms/cm	Temperature °C	Dissolved Oxygen mg/L	Turbidity NTU
Round 3 - November/December 2012						
NMC: Ref. Reach	11/27/2012	8.04	0.911	6.49	16.08	0
NMC: Reach A	11/27/2012	8.02	1.08	6.08	14.61	0
NMC: Reach B	11/27/2012	8.18	0.913	5.11	23.34	0
NMC: Reach C	11/27/2012	7.96	1.09	5.96	16.25	0
NMC: Reach D	11/27/2012	7.96	1.20	5.97	13.79	0
NMC: Reach E	11/27/2012	7.89	2.55	6.30	15.30	0
NMC: Reach F	11/27/2012	7.85	2.93	6.85	14.25	0
Outfall 011	11/28/2012	7.88	9.30	9.31	14.53	0
Outfall 017	11/27/2012	7.32	16.4	4.06	12.5	0
Outfall 018	Location not sampled; Dry.					
Outfall 019	12/12/2012	8.28	2.28	5.35	13.34	12.4
Gravel Pit	11/28/2012	8.23	0.664	6.39	16.40	0
Retention Pond #1	11/27/2012	8.74	22.7	4.34	11.83	0
Retention Pond #2_Loc 1	11/27/2012	7.64	18.9	4.50	12.53	0
Retention Pond #2_Loc 2	11/27/2012	7.85	19.2	4.71	14.02	0
Iron Brook	11/28/2012	7.65	8.92	5.55	10.22	0
Ponded Area N of WB11	11/28/2012	7.75	10.4	5.83	14.23	0
Interbed Area_Loc 1	11/28/2012	7.64	11.9	3.53	14.40	0
Interbed Area_Loc 2	11/28/2012	7.60	12.7	3.23	19.76	0
Interbed Area_Loc 3	11/28/2012	7.64	13.1	3.13	21.76	0
Round 4 - February 2013						
NMC: Ref. Reach	2/6/2013	8.51	1.01	3.51	15.07	16.0
NMC: Reach A	2/6/2013	8.57	0.723	3.53	13.76	16.5
NMC: Reach B	2/6/2013	8.53	1.02	2.50	31.70	16.1
NMC: Reach C	2/6/2013	8.36	1.11	2.82	20.75	15.3
NMC: Reach D	2/6/2013	8.31	1.17	2.92	9.11	16.2
NMC: Reach E	2/6/2013	8.14	1.68	3.47	19.37	16.3
NMC: Reach F	2/6/2013	8.15	1.65	3.25	19.12	18.9
Outfall 011	2/7/2013	8.59	12.7	4.43	7.26	16.3
Outfall 017	2/7/2013	8.62	12.7	1.14	22.88	14.3
Outfall 018	Location not sampled; Dry.					
Outfall 019	2/6/2013	8.05	4.08	0.90	12.21	13.4
Gravel Pit	2/7/2013	8.78	0.823	1.69	16.30	14.0
Retention Pond #1	2/7/2013	7.92	11.3	1.61	33.31	19.7
Retention Pond #2_Loc 1	2/7/2013	7.79	11.3	0.88	28.22	52.0
Retention Pond #2_Loc 2	2/7/2013	7.78	16.4	1.14	26.96	18.6
Iron Brook	2/7/2013	7.88	5.83	3.35	14.04	11.5
Ponded Area N of WB11	2/7/2013	7.95	1.67	3.29	21.74	16.4
Interbed Area_Loc 1	2/7/2013	7.84	2.73	1.88	24.95	25.8
Interbed Area_Loc 2	2/7/2013	7.87	3.91	0.88	23.25	58.4
Interbed Area_Loc 3	2/7/2013	8.02	4.15	0.88	23.99	43.6

Table 6
Honeywell
Wastebeds 9-15 Closure Investigation
Summary of Key Groundwater Geochemistry Values - July 2012

Location	Inorganic Classification	pH S.U.	TDS mg/L	Sodium mg/L	Calcium mg/L	Chloride mg/L
Solvay Waste Wells						
SB915-MW-36I	Leachate	13.71	52,000	7,200	12,000	35,000
SB915-MW-42I	Leachate	13.67	91,000	9,500	15,000	37,000
SB915-MW-53I	Leachate	11.14	120,000	13,000	19,000	56,000
SB915-PZ-07D	Leachate	12.41	76,000	8,300	13,000	36,000
SB915-PZ-07I	Leachate	12.98	64,000	7,100	12,000	33,000
SB915-PZ-07S	Leachate	13.68	4,300	150	1,200	1,400
SB915-MW-91S	Leachate	13.47	29,500	603	6,910	17,600
SB915-MW-92S	Leachate	12.78	32,300	2,880	4,540	15,100
Shallow Wells						
SB915-IMW-01S	Dilute Leachate	6.43	18,000	2,000	3,400	9,100
SB915-IMW-02S	Dilute Leachate	6.12	42,000	4,600	7,100	19,000
SB915-IMW-03S	Leachate	6.46	51,000	6,300	10,000	27,000
SB915-IMW-04S	Dilute Leachate	7.62	9,100	610	1,400	3,200
SB915-IMW-05S	Dilute Leachate	10.54	19,000	1,700	3,500	7,600
SB915-IMW-06S	Dilute Leachate	13.65	17,000	1,400	3,100	7,100
SB915-MW-03	Dilute Leachate	7.00	9,300	1,700	1,300	5,300
SB915-MW-04	Leachate	6.47	26,000	3,900	4,300	15,000
SB915-MW-100S	Dilute Leachate	8.49	9,890	777	1,420	5,080
SB915-MW-101S	Dilute Leachate	7.75	8,230	767	1,130	3,970
SB915-MW-102S	Dilute Leachate	6.99	4,600	436	682	2,060
SB915-MW-103S	Dilute Leachate	6.73	1,880	191	280	658
SB915-MW-104S	Leachate	5.99	100,000	13,000	18,000	26,000
SB915-MW-106S	Dilute Leachate	6.40	2,400	80.0	150	1,100
SB915-MW-107S	Leachate	6.02	48,000	6,200	8,700	29,000
SB915-MW-109S	Leachate	13.12	31,000	3,600	5,900	16,000
SB915-MW-110S	Dilute Leachate	6.68	7,200	580	1,100	2,800
SB915-MW-111S	Dilute Leachate	6.59	19,000	2,300	3,700	11,000
SB915-MW-112S	Dilute Leachate	11.45	8,500	720	1,700	4,300
SB915-MW-113S	Dilute Leachate	12.06	39,000	2,300	4,100	9,900
SB915-MW-116S	Dilute Leachate	6.82	2,800	260	380	1,000
SB915-MW-117S	Dilute Leachate	6.85	10,000	1,500	1,600	5,700
SB915-MW-118S	Leachate	6.49	39,000	6,100	5,900	23,000
SB915-MW-59S	Dilute Leachate	6.52	15,000	2,000	2,700	8,900
SB915-MW-60S	Dilute Leachate	6.12	8,200	1,100	1,700	5,000
SB915-MW-70S	Dilute Leachate	7.39	14,000	1,500	2,500	7,500
SB915-MW-87S	Fresh	8.49	548	47.7	132	87.5
SB915-MW-88S	Dilute Leachate	7.38	2,290	194	402	916
SB915-MW-89S	Fresh	7.40	1,560	127	253	458
SB915-MW-90S	Dilute Leachate	7.39	3,970	454	617	2,130
SB915-MW-91SN	Dilute Leachate	7.15	5,180	591	518	2,840
SB915-MW-93S	Dilute Leachate	7.18	4,600	349	751	2,150
SB915-MW-94S	Fresh	6.79	1,060	62.6	180	272
SB915-MW-95S	Dilute Leachate	8.56	1,820	238	256	676
SB915-MW-96S	Fresh	7.76	1,230	105	184	398
SB915-MW-97S	Dilute Leachate	6.59	1,770	174	250	644
SB915-MW-98S	Dilute Leachate	7.35	2,140	209	346	926
SB915-MW-99S	Dilute Leachate	6.45	3,850	237	490	1,620
SB915-WB-05U	Dilute Leachate	12.24	17,000	2,000	3,800	10,000
SB915-WB-07U	Dilute Leachate	6.32	23,000	3,100	3,100	9,800
SB915-WB-09U	Dilute Leachate	10.94	19,000	1,800	3,800	9,000
SB915-WB-10U	Leachate	6.31	44,000	5,900	10,000	17,000

Table 6
Honeywell
Wastebeds 9-15 Closure Investigation
Summary of Key Groundwater Geochemistry Values - July 2012

Location	Inorganic Classification	pH S.U.	TDS mg/L	Sodium mg/L	Calcium mg/L	Chloride mg/L
Intermediate Wells						
SB915-MW-104I	Fresh	6.80	780	89.0	180	180
SB915-MW-106I	Leachate	6.55	28,000	3,100	3,800	16,000
SB915-MW-107I	Dilute Leachate	6.57	13,000	940	1,500	4,400
SB915-MW-109I	Leachate	6.83	22,000	2,400	4,100	11,000
SB915-MW-111I	Leachate	6.41	67,000	8,900	13,000	38,000
SB915-MW-112I	Leachate	5.97	62,000	8,100	13,000	36,000
SB915-MW-70D	Leachate	6.52	82,000	9,300	14,000	45,000
SB915-WB-01L	Fresh	6.64	1,200	37.0	280	82.0
SB915-WB-02L	Leachate	6.68	95,900	8,230	14,600	47,200
SB915-WB-03L	Dilute Leachate	6.82	38,000	4,800	7,200	23,000
SB915-WB-05M	Leachate	7.09	26,000	3,600	4,000	14,000
SB915-MW-87I	Dilute Leachate	6.82	2,740	403	328	1,200
SB915-MW-88I	Dilute Leachate	8.13	9,150	876	1,820	4,470
SB915-MW-89I	Dilute Leachate	7.13	5,350	549	824	2,920
SB915-MW-90I	Dilute Leachate	6.68	6,710	758	971	3,400
SB915-MW-91I	Dilute Leachate	7.17	3,990	533	763	2,300
SB915-MW-92I	Dilute Leachate	7.77	4,350	561	836	2,250
SB915-MW-92D	Dilute Leachate	7.41	1,930	222	305	736
SB915-MW-93I	Dilute Leachate	7.22	5,280	464	796	2,410
Deep Wells						
SB915-MW-107D	Native Halite Brine	6.63	110,000	30,000	11,000	72,000
SB915-MW-108D	Fresh	7.54	730	56.0	150	110
SB915-MW-111D	Leachate	5.51	110,000	14,000	18,000	59,000
SB915-MW-36D	Leachate	6.54	3,100	370	540	1,500
SB915-MW-53D	Dilute Leachate	7.51	710	150	240	430
SB915-MW-85D	Leachate	7.16	100,000	11,000	17,000	46,000
SB915-WB-01L	Fresh	6.64	1,200	37.0	280	82.0
SB915-WB-02L	Leachate	6.68	95,900	8,230	14,600	47,200
SB915-WB-03L	Leachate	6.82	38,000	4,800	7,200	23,000
SB915-WB-04L	Dilute Leachate	6.74	15,200	1,670	2,150	7,660
SB915-WB-05L	Brine Leachate Mix	6.55	120,000	18,000	21,000	70,000
SB915-WB-06	Brine Leachate Mix	5.92	110,000	13,000	19,000	62,000
SB915-WB-07L	Leachate	6.44	75,000	10,000	12,000	39,000
SB915-WB-09L	Leachate	5.76	96,000	11,000	15,000	45,000
SB915-WB-10L	Brine Leachate Mix	6.25	96,000	11,000	15,000	41,000
WB18-MW-14D	Leachate	6.14	51,000	5,900	10,000	29,000
SB915-MW-88D	Dilute Leachate	8.06	21,300	1,890	3,470	11,000
SB915-MW-89D	Dilute Leachate	6.73	10,700	779	1,830	5,540
SB915-MW-91D	Dilute Leachate	6.53	4,870	524	779	2,410
SB915-MW-93D	Dilute Leachate	6.58	4,920	446	793	2,380
Bedrock Wells						
SB915-MW-105BR	Fresh	7.43	520	76.0	80.0	150
SB915-MW-107BR	Native Halite Brine	6.23	150,000	59,000	2,400	120,000
SB915-MW-108BR	Fresh	7.15	3,500	100	560	140
SB915-MW-111BR	Unknown Type 3	6.22	180,000	33,000	19,000	99,000
SB915-MW-115BR	Native Halite Brine	6.94	39,000	11,000	3,700	26,000
SB915-MW-118BR	Unknown Type 3	6.50	8,200	1,000	1,300	3,600
SB915-MW-87BR	Unknown Type 1	8.64	77,900	7,650	10,300	38,900
SB915-MW-88BR	Unknown Type 1	6.95	68,900	6,440	7,830	31,500
SB915-MW-89BR	Unknown Type 3	7.33	76,600	11,700	6,910	37,600
SB915-MW-90BR	Unknown Type 3	7.27	44,700	4,390	4,260	22,700

Table 6
Honeywell
Wastebeds 9-15 Closure Investigation
Summary of Key Groundwater Geochemistry Values - July 2012

Location	Inorganic Classification	pH S.U.	TDS mg/L	Sodium mg/L	Calcium mg/L	Chloride mg/L
SB915-MW-91BR	Native Halite Brine	7.84	120,000	55,800	156	81,200
SB915-MW-92BR	Native Halite Brine	6.85	49,300	8,260	479	25,600
SB915-MW-93BR	Unknown Type 3	6.34	150,000	21,300	12,900	74,200
SB915-WB-05R	Native Halite Brine	6.25	200,000	62,000	7,300	130,000
SB915-WB-07R	Native Halite Brine	7.35	160,000	55,000	2,500	94,000
WB18-MW-14BR	Unknown Type 2	6.46	160,000	45,000	3,300	110,000

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	0.62J	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.8	1.0U	1.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
2-BUTANONE	50(G)	µg/L	5.0UJ	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-HEXANONE	50(G)	µg/L	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0UJ
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
4-METHYL-2-PENTANONE	NC	µg/L	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0UJ
ACETONE	50(G)	µg/L	3.7J	5.0UJ	5.0UJ	3.1J	5.0UJ	2.7J	5.0UJ
ACETONITRILE	NC	µg/L	20U	20UJ	20UJ	20UJ	20UJ	20UJ	20UJ
ACROLEIN	NC	µg/L	20U	20U	20U	20U	20U	20U	20U
ACRYLONITRILE	NC	µg/L	20U	20UJ	20UJ	20UJ	20UJ	20UJ	20UJ
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	[22]	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOMETHANE	5(S)	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	0.50J	1.0U	1.0U	1.0U	0.20J
CHLOROETHANE	5(S)	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0UJ	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ
DIBROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0UJ	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0U
ETHYL CYANIDE	NC	µg/L	2.0U	2.0UJ	2.0UJ	2.0UJ	2.0UJ	2.0UJ	2.0UJ
ETHYL METHACRYLATE	NC	µg/L	1.0U	1.0UJ	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.18J	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	1.0U	1.0R	1.0R	1.0R	1.0R	1.0R	1.0R
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1U	1U	1.0UJ	1.0UJ	1.0UJ	1.0UJ
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1U	1U	1.0UJ	1.0UJ	1.0UJ	1.0UJ
1,2-DIBROMOETHANE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1U	1U	1.0UJ	1.0UJ	1.0UJ	1.0UJ
1,2-DICHLOROETHANE	0.6(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	5U	5U	5.0U	5.0U	5.0U	5.0U
2-HEXANONE	50(G)	µg/L	5U	5U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	5U	5U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	5U	5U	5.0UJ	5.0UJ	5.0UJ	5.0UJ
ACETONITRILE	NC	µg/L	20U	20U	20U	20U	20U	20U
ACROLEIN	NC	µg/L	20UJ	20UJ	20UJ	20UJ	20UJ	20UJ
ACRYLONITRILE	NC	µg/L	20UJ	20UJ	20U	20U	20U	20U
ALLYL CHLORIDE	NC	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	0.15J
BROMOCHLOROMETHANE	NC	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
BROMOMETHANE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1U	1U	1.0UJ	1.0UJ	1.0UJ	1.0UJ
CHLOROPRENE	NC	µg/L	1UJ	1UJ	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1U	1U	1.0UJ	1.0UJ	1.0UJ	1.0UJ
ETHYL CYANIDE	NC	µg/L	2UJ	2UJ	2.0U	2.0U	2.0U	2.0U
ETHYL METHACRYLATE	NC	µg/L	1UJ	1UJ	1.0U	1.0U	1.0U	1.0U
ETHYLBENZENE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1U	1U	1.0UJ	1.0UJ	1.0UJ	1.0UJ
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	1UJ	1UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
METHYLENE CHLORIDE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
TRICHLOROETHENE	5(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1U	1U	1.0UJ	1.0UJ	1.0UJ	1.0UJ
VINYL ACETATE	NC	µg/L	1UJ	1UJ	1.0U	1.0U	1.0U	1.0U
VINYL CHLORIDE	2(S)	µg/L	1U	1U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3U	3U	3.0U	3.0U	3.0U	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

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Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose	Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)		µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMOETHANE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0U
1,2-DICHLOROPROPANE	1(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC		µg/L	1.0UJ	1.0U	1.0UJ	1.0UJ	1.0U	1.0U
2-BUTANONE	50(G)		µg/L	5.0U	5.0U	5.0U	1.5J	5.0UJ	5.0U
2-HEXANONE	50(G)		µg/L	5.0U	5.0U	5.0U	5.0U	0.36J	5.0U
2-PROPENENITRILE, 2-METHYL-	NC		µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0U
4-METHYL-2-PENTANONE	NC		µg/L	5.0U	5.0U	5.0U	5.0U	5.0UJ	5.0U
ACETONE	50(G)		µg/L	5.0U	5.0UJ	5.0U	18	30J	5.0UJ
ACETONITRILE	NC		µg/L	20U	20U	20U	20U	20UJ	20U
ACROLEIN	NC		µg/L	20U	20U	20UJ	20UJ	20UJ	20U
ACRYLONITRILE	NC		µg/L	20U	20U	20U	20U	20UJ	20U
ALLYL CHLORIDE	NC		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	1(S)		µg/L	1.0U	1.0U	1.0U	0.62J	[23]	1.0U
BROMOCHLOROMETHANE	NC		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)		µg/L	1.0U	1.0UJ	1.0U	1.0U	1.0UJ	1.0UJ
BROMOMETHANE	5(S)		µg/L	1.0UJ	1.0U	1.0UJ	1.0UJ	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	0.80J	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0UJ	1.0UJ	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
ETHYL CYANIDE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0UJ	2.0U
ETHYL METHACRYLATE	NC	µg/L	1.0UJ	1.0UJ	1.0U	1.0U	1.0UJ	1.0UJ
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0R	1.0U
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	0.26J	1.0U	0.50J	1.0U	0.27J	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0UJ	1.0UJ	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U	1.0UJ	1.0U	1.0U	1.0UJ	1.0UJ
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0UJ
VINYL ACETATE	NC	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0R	1.0U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0UJ
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0UJ
2-HEXANONE	50(G)	µg/L	5.0UJ	5.0UJ	5.0UJ	0.39J	0.31J	5.0UJ
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0UJ
4-METHYL-2-PENTANONE	NC	µg/L	5.0UJ	5.0UJ	5.0UJ	0.90J	5.0UJ	5.0UJ
ACETONE	50(G)	µg/L	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0U	2.5J
ACETONITRILE	NC	µg/L	20U	20U	20U	20U	20UJ	20UJ
ACROLEIN	NC	µg/L	20U	20U	20U	20U	20UJ	20UJ
ACRYLONITRILE	NC	µg/L	20U	20U	20U	20U	20UJ	20UJ
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	0.37J
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0UJ
BROMOMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	0.23J	1.0U	1.0U	0.37J	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0UJ
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0U
ETHYL CYANIDE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0UJ	2.0UJ
ETHYL METHACRYLATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0UJ
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0R	1.0R
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	0.22J
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	0.15J	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0UJ
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0R	1.0R
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0049-02 / SB915-MW-113S / 05/04/2012 / Regular sample	SB915-0054-03 / SB915-MW-115BR / 05/25/2012 / Regular sample	SB915-0054-04 / SB915-MW-116S / 05/25/2012 / Regular sample	SB915-0054-02 / SB915-MW-117S / 05/25/2012 / Regular sample	SB915-0051-04 / SB915-MW-118BR / 05/18/2012 / Regular sample	SB915-0053-05 / SB915-MW-118S / 05/24/2012 / Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1U	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	2.5	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	2.6	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
2-BUTANONE	50(G)	µg/L	3.3J	5.0UJ	5.0UJ	5.0UJ	5U	5.0U
2-HEXANONE	50(G)	µg/L	0.77J	5.0U	5.0U	5.0U	5U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0UJ	1.0U	1.0U	1.0U	1U	1.0UJ
4-METHYL-2-PENTANONE	NC	µg/L	5.0UJ	5.0U	5.0U	5.0U	5U	5.0U
ACETONE	50(G)	µg/L	23J	5.0UJ	5.0UJ	5.0UJ	5U	5.0U
ACETONITRILE	NC	µg/L	20UJ	20U	20U	20U	20U	20U
ACROLEIN	NC	µg/L	20UJ	20U	20U	20U	20UJ	20U
ACRYLONITRILE	NC	µg/L	20UJ	20UJ	20UJ	20UJ	20UJ	20U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
BENZENE	1(S)	µg/L	[12]	1.0U	1.0U	1.0U	[1.8]	1.0U
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
BROMOFORM	50(G)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1U	1.0U
BROMOMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0UJ

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0049-02 / SB915-MW-113S / 05/04/2012 / Regular sample	SB915-0054-03 / SB915-MW-115BR / 05/25/2012 / Regular sample	SB915-0054-04 / SB915-MW-116S / 05/25/2012 / Regular sample	SB915-0054-02 / SB915-MW-117S / 05/25/2012 / Regular sample	SB915-0051-04 / SB915-MW-118BR / 05/18/2012 / Regular sample	SB915-0053-05 / SB915-MW-118S / 05/24/2012 / Regular sample
CARBON DISULFIDE	60(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[17]	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0UJ
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
CHLOROPRENE	NC	µg/L	1.0UJ	1.0U	1.0U	1.0U	1UJ	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	0.27J	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
ETHYL CYANIDE	NC	µg/L	2.0UJ	2.0U	2.0U	2.0U	2UJ	2.0UJ
ETHYL METHACRYLATE	NC	µg/L	1.0UJ	1.0U	1.0U	1.0U	1UJ	1.0UJ
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	1.0R	1.0UJ	1.0UJ	1.0UJ	1UJ	1.0UJ
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
TOLUENE	5(S)	µg/L	0.25J	1.0U	1.0U	1.0U	1U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1U	1.0UJ
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	0.2J	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
VINYL ACETATE	NC	µg/L	1.0R	1.0U	1.0U	1.0U	1UJ	1.0R
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U	3.0U	3.0U	3.0U	3U	3.0U

NOTES:

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Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0UJ	5.0U	1.0U	1.0UJ	3.0UJ	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0UJ	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	5.0U	1.0UJ	1.0U	3.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	[5.2]	2.6	1.0UJ	3.0UJ	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0UJ	[71]	[21]	1.0U	3.0U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U	2.9J	0.96J	1.0U	3.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	5.0U	1.0UJ	1.0U	3.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0UJ	[97]	[41E]	1.0U	3.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	5.0U	1.0UJ	1.0UJ	3.0UJ	1.0UJ	1.0U
2-BUTANONE	50(G)	µg/L	5.0UJ	5.8J	2.5J	35	15U	0.81UJ	1.2J
2-HEXANONE	50(G)	µg/L	5.0U	25U	5.0UJ	5.0U	1.5J	5.0UJ	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0UJ	5.0U	1.0UJ	1.0U	3.0U	1.0U	1.0UJ
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	25U	5.0UJ	5.0U	15U	5.0UJ	5.0U
ACETONE	50(G)	µg/L	5.0UJ	[95]	[90E]	[53]	[130]	22J	19J
ACETONITRILE	NC	µg/L	20U	100U	20UJ	20U	60UJ	20U	20U
ACROLEIN	NC	µg/L	20UJ	100U	20U	20U	60U	20U	20U
ACRYLONITRILE	NC	µg/L	20U	100UJ	20UJ	20UJ	60U	20U	20UJ
ALLYL CHLORIDE	NC	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	1.0U	[4.3J]	0.39J	1.0U	[29]	[11]	[18]
BROMOCHLOROMETHANE	NC	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0UJ	5.0U	1.0U	1.0UJ	3.0UJ	1.0U	1.0UJ
BROMOMETHANE	5(S)	µg/L	1.0U	5.0U	1.0UJ	1.0U	3.0U	1.0U	1.0U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0UJ	5.0U	1.0U	1.0UJ	3.0UJ	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	[60]	[9.9]	1.0U	3.0U	0.23J	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	5.0U	1.0UJ	1.0U	3.0U	1.0U	1.0UJ
CHLOROFORM	7(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	5.0U	1.0U	1.0UJ	3.0UJ	1.0UJ	1.0U
CHLOROPRENE	NC	µg/L	1.0U	5.0U	1.0U	1.0UJ	3.0UJ	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0UJ	5.0U	1.0UJ	1.0U	3.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0UJ	1.0U
ETHYL CYANIDE	NC	µg/L	2.0U	10UJ	2.0UJ	2.0U	6.0U	2.0U	2.0UJ
ETHYL METHACRYLATE	NC	µg/L	1.0U	5.0U	1.0UJ	1.0U	3.0U	1.0U	1.0UJ
ETHYLBENZENE	5(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
ISOBUTANOL	NC	µg/L	40R	200R	40R	40R	120R	40R	40R
METHYL METHACRYLATE	NC	µg/L	1.0U	5.0UJ	1.0UJ	1.0UJ	3.0UJ	1.0U	1.0UJ
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0UJ	5.0U	0.15J	1.0U	3.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	5.0U	1.0U	0.21J	0.64J	0.39J	2.3
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	5.0U	1.0U	1.0UJ	3.0UJ	1.0UJ	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0UJ	5.0UJ	1.0UJ	1.0U	3.0U	1.0U	1.0UJ
TRICHLOROETHENE	5(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0UJ	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	1.0U	5.0R	1.0R	1.0U	3.0U	1.0U	1.0R
VINYL CHLORIDE	2(S)	µg/L	1.0U	5.0U	1.0U	1.0U	3.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U	15U	3.0U	3.0U	9.0U	3.0U	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	25U	0.33J	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0UJ	25UJ	[3.4]	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	25U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0U
2-BUTANONE	50(G)	µg/L	5.0UJ	130UJ	5.0U	5.0U	5.0U	5.0U	5.0U
2-HEXANONE	50(G)	µg/L	5.0UJ	5.2J	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	25UJ	1.0U	1.0U	1.0U	1.0U	1.0UJ
4-METHYL-2-PENTANONE	NC	µg/L	5.0UJ	130UJ	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	5.0U	[86J]	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONITRILE	NC	µg/L	20UJ	500UJ	20U	20U	20U	20U	20U
ACROLEIN	NC	µg/L	20UJ	500UJ	20UJ	20UJ	20UJ	20UJ	20U
ACRYLONITRILE	NC	µg/L	20UJ	500UJ	20U	20U	20U	20U	20UJ
ALLYL CHLORIDE	NC	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	1.0U	[400]	1.0U	0.62J	1.0U	0.52J	1.0U
BROMOCHLOROMETHANE	NC	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0UJ	25UJ	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOMETHANE	5(S)	µg/L	1.0U	25U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	1.0U	8.5J	1.0U	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	25U	0.30J	1.0U	1.0U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0UJ
CHLOROFORM	7(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	25U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0U
CHLOROPRENE	NC	µg/L	1.0UJ	25UJ	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
ETHYL CYANIDE	NC	µg/L	2.0UJ	50UJ	2.0U	2.0U	2.0U	2.0U	2.0UJ
ETHYL METHACRYLATE	NC	µg/L	1.0UJ	25UJ	1.0U	1.0U	1.0U	1.0U	1.0UJ
ETHYLBENZENE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
ISOBUTANOL	NC	µg/L	40R	1000R	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	1.0R	25R	1.0U	1.0U	1.0U	1.0U	1.0UJ
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	0.16J	[6.6J]	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	25U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0UJ	25UJ	1.0U	1.0U	1.0U	1.0U	1.0UJ
TRICHLOROETHENE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	1.0R	25R	1.0U	1.0U	1.0U	1.0U	1.0R
VINYL CHLORIDE	2(S)	µg/L	1.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U	75U	3.0U	3.0U	3.0U	3.0U	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

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Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0044-04 SB915-MW-87BR 05/07/2012 Regular sample	SCA-0044-03 SB915-MW-87I 05/07/2012 Regular sample	SCA-0044-01 SB915-MW-87S 05/07/2012 Regular sample	SCA-0045-04 SB915-MW-88BR 05/08/2012 Regular sample	SCA-0045-03 SB915-MW-88D 05/08/2012 Regular sample	SCA-0045-02 SB915-MW-88I 05/08/2012 Regular sample	SCA-0045-01 SB915-MW-88S 05/08/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[56.6]	1.1	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[45.7]	[9.6]	0.45J
2,2-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
ACETONITRILE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACROLEIN	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U	50U
ALLYL CHLORIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
BENZENE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[8.5]	[2.6]	1.0U
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0UJ	2.0UJ	2.0U	2.0U	2.0U	2.0U	2.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0044-04 SB915-MW-87BR 05/07/2012 Regular sample	SCA-0044-03 SB915-MW-87I 05/07/2012 Regular sample	SCA-0044-01 SB915-MW-87S 05/07/2012 Regular sample	SCA-0045-04 SB915-MW-88BR 05/08/2012 Regular sample	SCA-0045-03 SB915-MW-88D 05/08/2012 Regular sample	SCA-0045-02 SB915-MW-88I 05/08/2012 Regular sample	SCA-0045-01 SB915-MW-88S 05/08/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[33.1]	[30.7]	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	0.22J	1.0U
IODOMETHANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	0.25J	0.35J	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0UJ	5.0UJ	5.0UJ	5.0UJ
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SCA-0044-02 SB915-WB-02L 05/07/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	2.0U	25U	1.0U	1.0U	5.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	2.0U	25U	1.0U	1.0U	NA	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	2.0U	25U	1.0U	1.0U	5.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	NA	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	2.0U	25U	1.0U	1.0U	10U	1.0U	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	2.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	0.49J	25U	[12]	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	2.0U	25U	0.42J	1.0U	NA	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	2.0U	25U	1.0U	1.0U	NA	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	2.0U	25U	[22]	1.0U	1.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	2.0U	25U	1.0U	1.0U	NA	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	9.0J	130U	5.0U	5.0U	10U	5.0U	5.0U
2-HEXANONE	50(G)	µg/L	10U	130U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	2.0U	25U	1.0U	1.0UJ	NA	1.0U	1.0UJ
4-METHYL-2-PENTANONE	NC	µg/L	10U	130U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	[63]	[64J]	20	5.0U	10U	5.0U	5.0U
ACETONITRILE	NC	µg/L	40U	500U	20U	20U	NA	20U	20U
ACROLEIN	NC	µg/L	40U	500U	20U	20U	NA	20U	20U
ACRYLONITRILE	NC	µg/L	40UJ	500Uj	20UJ	20UJ	50U	20UJ	20UJ
ALLYL CHLORIDE	NC	µg/L	2.0U	25U	1.0U	1.0U	NA	1.0U	1.0U
BENZENE	1(S)	µg/L	[36]	[510]	[1.7]	1.0U	1.0U	1.0U	1.0U
BROMOCHLOROMETHANE	NC	µg/L	2.0U	25U	1.0U	1.0U	5.0UJ	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	2.0U	25U	1.0U	1.0U	4.0U	1.0U	1.0U
BROMOMETHANE	5(S)	µg/L	2.0U	25U	1.0U	1.0UJ	2.0U	1.0U	1.0UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SCA-0044-02 SB915-WB-02L 05/07/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	2.0U	25U	1.0U	1.0U	2.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[54]	[13J]	[27]	1.0U	1.0U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	2.0U	25U	1.0U	1.0UJ	1.0U	1.0U	1.0UJ
CHLOROFORM	7(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	2.0U	25U	1.0U	1.0U	NA	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	2.0U	25U	1.0U	1.0U	5.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	NA	1.0U	1.0U
ETHYL CYANIDE	NC	µg/L	4.0UJ	50UJ	2.0UJ	2.0UJ	NA	2.0UJ	2.0UJ
ETHYL METHACRYLATE	NC	µg/L	2.0U	25U	1.0U	1.0UJ	NA	1.0U	1.0U
ETHYLBENZENE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0UJ
IODOMETHANE	NC	µg/L	2.0U	25U	1.0U	1.0U	NA	1.0U	1.0U
ISOBUTANOL	NC	µg/L	80R	1000R	40R	40R	NA	40R	40R
METHYL METHACRYLATE	NC	µg/L	2.0UJ	25U	1.0UJ	1.0UJ	NA	1.0UJ	1.0UJ
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	[11J]	1.0U	1.0U	2.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	5.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	2.0U	25U	0.16J	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	3.6	[43]	1.0U	1.0U	1.0U	0.32J	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	2.0UJ	25UJ	1.0UJ	1.0UJ	5.0U	1.0UJ	1.0UJ
TRICHLOROETHENE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	2.0U	25U	1.0U	1.0U	5.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	2.0UJ	25UJ	1.0UJ	1.0R	10U	1.0UJ	1.0R
VINYL CHLORIDE	2(S)	µg/L	2.0U	25U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.5J	75U	3.0U	3.0U	1.0U	3.0U	3.0U

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0046-04 / SB915-WB-05R / 05/01/2012 / Regular sample	SB915-0046-01 / SB915-WB-05U / 05/01/2012 / Regular sample	SB915-0052-01 / SB915-WB-06 / 05/23/2012 / Regular sample	SB915-0043-03 / SB915-WB-07L / 04/26/2012 / Regular sample	SB915-0043-04 / SB915-WB-07R / 04/26/2012 / Regular sample	SB915-0043-02 / SB915-WB-07U / 04/26/2012 / Regular sample	SB915-0041-01 / SB915-WB-09L / 04/24/2012 / Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	0.28U	0.28U	1.0U	7.5U	1.0U	1.0U	1.0UJ
1,1,1-TRICHLOROETHANE	5(S)	µg/L	0.29U	0.29U	1.0U	7.5U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	0.20U	0.20U	1.0U	7.5U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	0.20U	0.20U	1.0U	7.5U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	0.12U	0.12U	1.0U	7.5U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	0.30U	0.30U	1.0U	7.5U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	0.19U	0.19U	1.0U	7.5U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	0.24U	0.24U	1.0U	7.5U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	0.27U	0.27U	1.0U	7.5U	1.0U	1.0U	1.0UJ
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	0.14U	0.14U	1.0U	7.5U	1.0U	1.0U	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	0.18U	0.18U	1.0U	7.5U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	0.15U	0.15U	1.0U	7.5U	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	0.21U	0.21U	1.0U	7.5U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	0.095U	0.095U	1.0U	7.5U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	0.11U	0.11U	1.0U	7.5U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	0.21U	0.21U	1.0U	7.5U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	0.21U	0.21U	1.0U	7.5U	1.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	0.11U	0.11U	1.0U	7.5UJ	1.0U	1.0U	1.0UJ
2-BUTANONE	50(G)	µg/L	0.55U	2.3J	5.0U	38UJ	5.0U	5.0U	5.0U
2-HEXANONE	50(G)	µg/L	0.16U	0.32J	5.0U	2.0J	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	0.23U	0.23U	1.0UJ	7.5U	1.0U	1.0U	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	0.53U	0.53U	5.0U	6.6J	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	2.5U	20J	5.0U	[250J]	5.0UJ	5.0UJ	5.0U
ACETONITRILE	NC	µg/L	4.5U	4.5U	20UJ	150U	20U	20U	20U
ACROLEIN	NC	µg/L	2.6U	2.6U	20U	150U	20U	20U	20U
ACRYLONITRILE	NC	µg/L	0.55U	0.55UJ	20U	150U	20U	20U	20UJ
ALLYL CHLORIDE	NC	µg/L	0.29U	0.29U	1.0U	7.5U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	0.11U	[1.2]	1.0U	7.5U	1.0U	1.0U	1.0U
BROMOCHLOROMETHANE	NC	µg/L	0.18U	0.18U	1.0U	7.5U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	0.13U	0.13U	1.0U	7.5U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	0.19U	0.19U	1.0U	7.5U	1.0UJ	1.0UJ	1.0UJ
BROMOMETHANE	5(S)	µg/L	0.31U	0.31U	1.0UJ	7.5U	1.0U	1.0U	1.0U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	0.21U	0.21U	1.0U	7.5U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	0.14U	0.14U	1.0U	7.5U	1.0U	1.0U	1.0UJ
CHLOROBENZENE	5(S)	µg/L	0.14U	0.14U	1.0U	7.5U	1.0U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	0.21U	0.21U	1.0UJ	7.5U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	0.17U	0.17U	1.0U	7.5U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	0.28U	0.28U	1.0U	7.5UJ	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	0.17U	0.17U	1.0U	7.5U	1.0U	1.0U	1.0UJ
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	0.24U	0.24U	1.0U	7.5U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	0.19U	0.19U	1.0U	7.5U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	0.14U	0.14U	1.0U	7.5U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	0.29U	0.29U	1.0U	7.5U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	0.19U	0.19U	1.0U	7.5UJ	1.0U	1.0U	1.0U
ETHYL CYANIDE	NC	µg/L	0.45U	0.45U	2.0UJ	15U	2.0U	2.0U	2.0U
ETHYL METHACRYLATE	NC	µg/L	0.23U	0.23UJ	1.0UJ	7.5U	1.0UJ	1.0UJ	1.0U
ETHYLBENZENE	5(S)	µg/L	0.23U	0.23U	1.0U	7.5U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	0.21U	0.21U	1.0U	7.5U	1.0U	1.0U	1.0U
ISOBUTANOL	NC	µg/L	5.1U	5.1R	40R	300R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	0.15U	0.15UJ	1.0UJ	7.5U	1.0U	1.0U	1.0UJ
METHYLENE CHLORIDE	5(S)	µg/L	0.15U	0.15U	1.0U	1.5J	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	0.097U	0.097U	1.0U	7.5U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	0.15U	0.15U	1.0U	7.5U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	0.15U	0.18J	1.0U	3.9J	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	0.17U	0.17U	1.0U	7.5U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	0.15U	0.15U	1.0U	7.5UJ	1.0U	1.0U	1.0UJ
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	0.30U	0.30UJ	1.0UJ	7.5U	1.0UJ	1.0UJ	1.0U
TRICHLOROETHENE	5(S)	µg/L	0.14U	0.14U	1.0U	7.5U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	0.20U	0.20UJ	1.0U	7.5U	1.0UJ	1.0UJ	1.0U
VINYL ACETATE	NC	µg/L	0.22U	0.22R	1.0R	7.5U	1.0U	1.0U	1.0U
VINYL CHLORIDE	2(S)	µg/L	0.23U	0.23U	1.0U	7.5U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	0.49U	0.49U	3.0U	23U	3.0U	3.0U	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0UJ	1.0U	1.0UJ
2-BUTANONE	50(G)	µg/L	5.0U	5.0U	15	5.0U	5.0UJ	5.0U	5.0UJ
2-HEXANONE	50(G)	µg/L	0.82J	5.0U	1.2J	5.0U	0.46J	5.0U	5.0UJ
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	1.7J	5.0U	1.5J	5.0U	5.0UJ
ACETONE	50(G)	µg/L	4.9J	5.0U	[53]	5.0UJ	17J	5.0UJ	21J
ACETONITRILE	NC	µg/L	20U	20U	20U	20U	20U	20U	20U
ACROLEIN	NC	µg/L	20U	20U	20U	20U	20U	20U	20U
ACRYLONITRILE	NC	µg/L	20UJ	20UJ	20UJ	20U	20U	20U	20U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	[14]	1.0U	[3.2]	1.0U	[2.8]	[3.2]	[8.3]
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0UJ	1.0U
BROMOMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	0.32J	1.0U	0.24J	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0UJ	1.0U	1.0UJ
CHLOROPRENE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0U	1.3J
ETHYL CYANIDE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
ETHYL METHACRYLATE	NC	µg/L	1.0U	1.0U	1.0U	1.0UJ	1.0U	1.0UJ	1.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
ISOBUTANOL	NC	µg/L	40R	40U	40R	40R	40R	40UJ	40R
METHYL METHACRYLATE	NC	µg/L	1.0UJ	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0U
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	0.30J	1.0U	0.50J	1.0U	0.63J	1.0U	0.20J
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0UJ	1.0U	1.0UJ
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0UJ	1.0U	1.0UJ	1.0U
VINYL ACETATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample	SCA-0048-06 SB915-MW-100S 05/11/2012 Regular sample	SCA-0047-05 SB915-MW-101S 05/10/2012 Regular sample	SCA-0049-05 SB915-MW-102S 05/14/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	[9.0]	[12.2]	[6.1]
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0UJ	1.0UJ	1.0U	[2.6]	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	[303]	[52.6]	[10.2]
2,2-DICHLOROPROPANE	NC	µg/L	1.0UJ	1.0U	1.0U	NA	NA	NA
2-BUTANONE	50(G)	µg/L	5.0UJ	5.0UJ	5.0UJ	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0UJ	5.0UJ	5.0UJ	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	1.0UJ	1.0UJ	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0UJ	5.0UJ	5.0UJ	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	32J	5.0U	5.0U	10UJ	14.4	10UJ
ACETONITRILE	NC	µg/L	20U	20UJ	20UJ	NA	NA	NA
ACROLEIN	NC	µg/L	20U	20UJ	20UJ	NA	NA	NA
ACRYLONITRILE	NC	µg/L	20U	20UJ	20UJ	50U	50U	50U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	NA	NA	NA
BENZENE	1(S)	µg/L	[1.9]	1.0U	1.0U	[41.6]	[5.1]	1.0U
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0U	1.0UJ	1.0UJ	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	2.0U	2.0U	2.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample	SCA-0048-06 SB915-MW-100S 05/11/2012 Regular sample	SCA-0047-05 SB915-MW-101S 05/10/2012 Regular sample	SCA-0049-05 SB915-MW-102S 05/14/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	1.0U	1.0U	0.25J	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	[531]	[97.6]	[21.2]
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0UJ	1.0UJ	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	0.83J	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0UJ	1.0U	1.0U	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	2.0U	2.0UJ	2.0UJ	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	1.0U	1.0UJ	1.0UJ	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	NA	NA	NA
ISOBUTANOL	NC	µg/L	40R	40R	40R	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	1.0U	1.0R	1.0R	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	1.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.29J	0.34J	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	0.65J	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U	1.0UJ	1.0UJ	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	0.41J	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	1.0U	1.0R	1.0R	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U	3.0U	3.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0051-04 SB915-MW-103S 05/16/2012 Regular sample	SCA-0046-04 SB915-MW-89BR 05/09/2012 Regular sample	SCA-0046-03 SB915-MW-89D 05/09/2012 Regular sample	SCA-0046-02 SB915-MW-89I 05/09/2012 Regular sample	SCA-0046-01 SB915-MW-89S 05/09/2012 Regular sample	SCA-0047-04 SB915-MW-90BR 05/10/2012 Regular sample	SCA-0047-02 SB915-MW-90I 05/10/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.51J
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	[32.4]	[78.5]	1.0U	1.0U	[18.9]
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	[4.9]
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	0.32J	1.0U	[17.0]	[74.6]	1.0U	1.0U	[73.0]
2,2-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10UJ	10UJ
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10UJ	10U	10U	10U	10U	10U	10U
ACETONITRILE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACROLEIN	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50UJ	50UJ
ALLYL CHLORIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
BENZENE	1(S)	µg/L	1.0U	1.0U	[6.9]	[8.1]	1.0U	1.0U	[4.9]
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0UJ	2.0UJ	2.0U	2.0U	2.0UJ	2.0U	2.0UJ

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose	SCA-0051-04 SB915-MW-103S 05/16/2012 Regular sample	SCA-0046-04 SB915-MW-89BR 05/09/2012 Regular sample	SCA-0046-03 SB915-MW-89D 05/09/2012 Regular sample	SCA-0046-02 SB915-MW-89I 05/09/2012 Regular sample	SCA-0046-01 SB915-MW-89S 05/09/2012 Regular sample	SCA-0047-04 SB915-MW-90BR 05/10/2012 Regular sample	SCA-0047-02 SB915-MW-90I 05/10/2012 Regular sample
		Units							
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	0.24J	1.0U	[357]	[271]	1.0U	1.0U	[149]
CHLOROETHANE	5(S)	µg/L	1.0U	1.0UJ	1.0U	1.0U	1.0UJ	1.0UJ	1.0UJ
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	0.91J	1.0U	1.0U	1.0U	1.7
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.79J	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	0.61J	1.0U	1.0U	1.0U	1.6
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.3	0.99J	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.1
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	0.44J	1.0U	1.0U	1.0U

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Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0047-01 SB915-MW-90S 05/10/2012 Regular sample	SCA-0045-05 SB915-MW-91BR 05/08/2012 Regular sample	SCA-0050-04 SB915-MW-91D 05/15/2012 Regular sample	SCA-0050-03 SB915-MW-91I 05/15/2012 Regular sample	SCA-0050-02 SB915-MW-91SN 05/15/2012 Regular sample	SCA-0050-01 SB915-MW-91S 05/15/2012 Regular sample	SCA-0046-07 SB915-MW-92BR 05/09/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	[14.7]	1.0U	1.6	[3.2]	0.29J	[81.9]	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	0.46J	1.0U	[5.8]	[1.2]	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	[26.7]	1.0U	1.1	2.7	0.36J	[79.4]	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	10UJ	10U	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10UJ	10U	10U	10U	10U	[158]	10U
ACETONITRILE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACROLEIN	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	50UJ	50UJ	50U	50U	50U	50U	50U
ALLYL CHLORIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
BENZENE	1(S)	µg/L	0.29J	[5.5]	0.97J	0.34J	[4.7]	[211]	1.0U
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0UJ	2.0U	2.0U	2.0U	2.0U	2.0U	2.0UJ

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0047-01 SB915-MW-90S 05/10/2012 Regular sample	SCA-0045-05 SB915-MW-91BR 05/08/2012 Regular sample	SCA-0050-04 SB915-MW-91D 05/15/2012 Regular sample	SCA-0050-03 SB915-MW-91I 05/15/2012 Regular sample	SCA-0050-02 SB915-MW-91SN 05/15/2012 Regular sample	SCA-0050-01 SB915-MW-91S 05/15/2012 Regular sample	SCA-0046-07 SB915-MW-92BR 05/09/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	2.0U	0.27J	2.0U	2.0U	2.0U	2.0U	0.40J
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[26.0]	1.0U	[25.9]	[35.3]	1.2	[164]	1.0U
CHLOROETHANE	5(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0UJ
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	0.76J	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	0.84J	1.0U
IODOMETHANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	0.40J	1.0U	1.0U	0.45J	[49.0]	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	[12.0]	1.0U

NOTES:

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Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0051-03 SB915-MW-92D 05/16/2012 Regular sample	SCA-0051-02 SB915-MW-92I 05/16/2012 Regular sample	SCA-0051-01 SB915-MW-92S 05/16/2012 Regular sample	SCA-0049-04 SB915-MW-93BR 05/14/2012 Regular sample	SCA-0049-03 SB915-MW-93D 05/14/2012 Regular sample	SCA-0049-02 SB915-MW-93I 05/14/2012 Regular sample	SCA-0049-01 SB915-MW-93S 05/14/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	[4.1]	[183]	1.0U	[11.9]	[10.5]	[7.4]
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	2.7	[102]	1.0U	[18.1]	[16.2]	[11.9]
2,2-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	10U	10U	26.1	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	1.8J	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10UJ	31.1	[443]	10UJ	10UJ	10UJ	10UJ
ACETONITRILE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACROLEIN	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U	50U
ALLYL CHLORIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
BENZENE	1(S)	µg/L	1.0U	[9.6]	[90.7]	1.0U	0.24J	1.0U	0.30J
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0UJ	2.0UJ	2.0UJ	2.0U	2.0U	2.0U	2.0U

NOTES:

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Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0051-03 SB915-MW-92D 05/16/2012 Regular sample	SCA-0051-02 SB915-MW-92I 05/16/2012 Regular sample	SCA-0051-01 SB915-MW-92S 05/16/2012 Regular sample	SCA-0049-04 SB915-MW-93BR 05/14/2012 Regular sample	SCA-0049-03 SB915-MW-93D 05/14/2012 Regular sample	SCA-0049-02 SB915-MW-93I 05/14/2012 Regular sample	SCA-0049-01 SB915-MW-93S 05/14/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	[7.3]	[376]	1.0U	[23.7]	[19.9]	[7.9]
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	0.83J	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.7	[27.9]	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	0.85J	[21.2]	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0048-01 SB915-MW-94S 05/11/2012 Regular sample	SCA-0048-02 SB915-MW-95S 05/11/2012 Regular sample	SCA-0048-03 SB915-MW-96S 05/11/2012 Regular sample	SCA-0048-04 SB915-MW-97S 05/11/2012 Regular sample	SCA-0046-05 SB915-MW-98S 05/09/2012 Regular sample	SCA-0048-05 SB915-MW-99S 05/11/2012 Regular sample	SCA-0047-03 SB915-WB-04L 05/10/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	[7.6]
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2
1,1-DICHLOROPROPENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	[11.5]	0.25J
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	[9.8]
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	[55.2]	0.51J
2,2-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10UJ
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10UJ	10UJ	10UJ	10UJ	10U	10UJ	10U
ACETONITRILE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACROLEIN	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U	50UJ
ALLYL CHLORIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
BENZENE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	[1.9]	[12.9]
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0UJ	2.0U	2.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 7
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0048-01 SB915-MW-94S 05/11/2012 Regular sample	SCA-0048-02 SB915-MW-95S 05/11/2012 Regular sample	SCA-0048-03 SB915-MW-96S 05/11/2012 Regular sample	SCA-0048-04 SB915-MW-97S 05/11/2012 Regular sample	SCA-0046-05 SB915-MW-98S 05/09/2012 Regular sample	SCA-0048-05 SB915-MW-99S 05/11/2012 Regular sample	SCA-0047-03 SB915-WB-04L 05/10/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	[90.4]	[6.4]
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0U	1.0UJ
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	[19.0]
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.1
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.7U	4.8U	4.8U	4.8U	4.8U	4.7U	4.9U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
1,3,5-TRINITROBENZENE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
1,3-DINITROBENZENE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
1,4-NAPHTHOQUINONE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2,4-DINITROPHENOL	10(G)	µg/L	4.7U	4.8UJ	4.8UJ	4.8UJ	4.8UJ	4.7UJ	4.9UJ
2,4-DINITROTOLUENE	5(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2,6-DICHLOROPHENOL	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2,6-DINITROTOLUENE	5(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2-METHYLNAPHTHALENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2-NAPHTHYLAMINE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
2-NITROANILINE	5(S)	µg/L	4.7U	4.8UJ	4.8UJ	4.8UJ	4.8U	4.7UJ	4.9UJ
2-NITROPHENOL	1(S)	µg/L	0.94U	0.96UJ	0.96UJ	0.95UJ	0.96UJ	0.94UJ	0.97UJ
3&4-METHYLPHENOL	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
3-METHYLCHOLANTHRENE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
3-NITROANILINE	5(S)	µg/L	4.7U	4.8U	4.8U	4.8U	4.8U	4.7U	4.9U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.7U	4.8UJ	4.8UJ	4.8UJ	4.8UJ	4.7UJ	4.9UJ
4-AMINOBIPHENYL	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
4-CHLOROANILINE	5(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
4-NITROANILINE	5(S)	µg/L	4.7U	4.8U	4.8U	4.8U	4.8U	4.7U	4.9U
4-NITROPHENOL	1(S)	µg/L	4.7U	4.8U	4.8U	4.8U	4.8U	4.7U	4.9U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.94UJ	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
ACENAPHTHENE	20(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
ANTHRACENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
CHLOROBENZILATE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.94UJ	0.96UJ	0.96UJ	0.95UJ	0.96UJ	0.94UJ	0.97UJ
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.3J
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.94U	0.96UJ	0.96U	0.95U	0.96U	0.94UJ	0.97UJ
DIALLATE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
CHRYSENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19UJ	0.19UJ	0.19UJ	0.19UJ	0.19UJ	0.19UJ
DIBENZOFURAN	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
DIETHYL PHTHALATE	50(G)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
DIMETHYL PHTHALATE	50(G)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.94U	0.96UJ	0.96UJ	0.95UJ	0.96UJ	0.94UJ	0.97UJ
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
FLUORENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.94UJ	0.96R	0.96R	0.95R	0.96R	0.94R	0.97R
HEXACHLOROETHANE	5(S)	µg/L	0.94U	0.96U	0.96UJ	0.95U	0.96U	0.94U	0.97U
HEXACHLOROPROPENE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19U	0.19UJ	0.19UJ	0.19UJ	0.19UJ	0.19UJ	0.19UJ
ISODRIN	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
ISOPHORONE	50(G)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
ISOSAFROLE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
KEPONE	NC	µg/L	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
METHAPYRILENE	NC	µg/L	0.94U	0.96UJ	0.96UJ	0.95UJ	0.96UJ	0.94UJ	0.97UJ
METHYL METHANESULFONATE	NC	µg/L	0.94UJ	0.96UJ	0.96UJ	0.95UJ	0.96UJ	0.94UJ	0.97UJ
NAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
NITROBENZENE	0.4(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.94U	0.96UJ	0.96UJ	0.95UJ	0.96UJ	0.94UJ	0.97UJ
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
N-NITROSOPIPERIDINE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
N-NITROSOPYRROLIDINE	NC	µg/L	0.94U	0.96UJ	0.96UJ	0.95UJ	0.96UJ	0.94UJ	0.97UJ
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.94U	0.96UJ	0.96UJ	0.95UJ	0.96UJ	0.94UJ	0.97UJ
O-TOLUIDINE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
PENTACHLOROBENZENE	NC	µg/L	0.94U	0.96UJ	0.96UJ	0.95UJ	0.96U	0.94UJ	0.97UJ
PENTACHLORONITROBENZENE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96UJ	0.94U	0.97U
PENTACHLOROPHENOL	1(S)	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
PHENACETIN	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
PHENANTHRENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.44

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample
PHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
P-PHENYLENEDIAMINE	NC	µg/L	19U	19UJ	19UJ	19UJ	19UJ	19UJ	19UJ
PRONAMIDE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U
PYRENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
SAFROLE	NC	µg/L	0.94U	0.96U	0.96U	0.95U	0.96U	0.94U	0.97U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.7U	4.9U	4.7U	4.7U	4.8U	4.7U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
1,3,5-TRINITROBENZENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
1,3-DINITROBENZENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
1,4-NAPHTHOQUINONE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0UJ	0UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0UJ	0UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
2,4-DINITROPHENOL	10(G)	µg/L	4.7U	4.9U	4.7U	4.7U	4.8U	4.7U
2,4-DINITROTOLUENE	5(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
2,6-DICHLOROPHENOL	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
2,6-DINITROTOLUENE	5(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
2-METHYLNAPHTHALENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
2-NAPHTHYLAMINE	NC	µg/L	0.94U	0.97U	0.94UJ	0.94UJ	0.95UJ	0.94UJ
2-NITROANILINE	5(S)	µg/L	4.7U	4.9U	4.7U	4.7UJ	4.8UJ	4.7UJ
2-NITROPHENOL	1(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
3&4-METHYLPHENOL	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
3-METHYLCHOLANTHRENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
3-NITROANILINE	5(S)	µg/L	4.7U	4.9U	4.7U	4.7U	4.8U	4.7U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.7UJ	4.9UJ	4.7UJ	4.7U	4.8U	4.7U
4-AMINOBIPHENYL	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
4-CHLOROANILINE	5(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
4-NITROANILINE	5(S)	µg/L	4.7U	4.9U	4.7U	4.7U	4.8U	4.7U
4-NITROPHENOL	1(S)	µg/L	4.7U	4.9U	4.7U	4.7UJ	4.8UJ	4.7UJ
5-NITRO-O-TOLUIDINE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.11J
ACENAPHTHENE	20(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
ANTHRACENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
CHLOROBENZILATE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	[0.073J]
BENZO(A)PYRENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.25
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	[0.58]
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19UJ	0.19UJ	0.43J
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	[0.084J]
BENZYL ALCOHOL	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
DIALLATE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
CHRYSENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	[0.079J]
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19U	0.19U	0.19UJ	0.19UJ	0.46J
DIBENZOFURAN	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
DIETHYL PHTHALATE	50(G)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
DIMETHYL PHTHALATE	50(G)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.94U	0.97U	0.94U	0.13J	0.95U	0.94U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U

NOTES:

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
FLUORENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.94R	0.97R	0.94R	0.94UJ	0.95UJ	0.94UJ
HEXACHLOROETHANE	5(S)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
HEXACHLOROPROPENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19UJ	0.19UJ	[0.42J]
ISODRIN	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
ISOPHORONE	50(G)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
ISOSAFROLE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
KEPONE	NC	µg/L	3.8U	3.9U	3.8U	3.8UJ	3.8UJ	3.8UJ
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
METHAPYRILENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
METHYL METHANESULFONATE	NC	µg/L	0.94UJ	0.97UJ	0.94UJ	0.94UJ	0.95UJ	0.94UJ
NAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
NITROBENZENE	0.4(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
N-NITROSOPIPERIDINE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
N-NITROSOPYRROLIDINE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.94U	0.97U	0.94U	0.94UJ	0.95UJ	0.94UJ
O-TOLUIDINE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
PENTACHLOROBENZENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
PENTACHLORONITROBENZENE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
PENTACHLOROPHENOL	1(S)	µg/L	0.94U	0.97U	0.94U	0.94UJ	0.95UJ	0.94UJ
PHENACETIN	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
PHENANTHRENE	50(G)	µg/L	0.44J	0.19U	0.44	0.19U	0.19U	0.19U

NOTES:

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
PHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
P-PHENYLENEDIAMINE	NC	µg/L	19UJ	19UJ	19UJ	19UJ	19UJ	19UJ
PRONAMIDE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U
PYRENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
SAFROLE	NC	µg/L	0.94U	0.97U	0.94U	0.94U	0.95U	0.94U

NOTES:

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.9U	4.9U	4.8U	4.8U	4.7U	4.8U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
1,3,5-TRINITROBENZENE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
1,3-DINITROBENZENE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
1,4-NAPHTHOQUINONE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00J	0.00J	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00J	0.00J	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.97U	0.97U	0.95UJ	0.95UJ	0.94U	0.95U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
2,4-DINITROPHENOL	10(G)	µg/L	4.9U	4.9U	4.8U	4.8U	4.7U	4.8U
2,4-DINITROTOLUENE	5(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
2,6-DICHLOROPHENOL	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
2,6-DINITROTOLUENE	5(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
2-METHYLNAPHTHALENE	NC	µg/L	0.19U	0.19U	0.19U	0.025J	0.061J	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.97U	0.97U	0.95U	0.48J	[1.5]	0.95U
2-NAPHTHYLAMINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
2-NITROANILINE	5(S)	µg/L	4.9U	4.9U	4.8U	4.8U	4.7U	4.8U
2-NITROPHENOL	1(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
3&4-METHYLPHENOL	NC	µg/L	0.97U	0.97U	0.95U	0.73J	3.4	0.95U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94R	0.95U
3-METHYLCHOLANTHRENE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
3-NITROANILINE	5(S)	µg/L	4.9U	4.9U	4.8U	4.8U	4.7U	4.8U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.9U	4.9U	4.8U	4.8U	4.7U	4.8U
4-AMINOBIPHENYL	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
4-CHLOROANILINE	5(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
4-NITROANILINE	5(S)	µg/L	4.9U	4.9U	4.8U	4.8U	4.7U	4.8U
4-NITROPHENOL	1(S)	µg/L	4.9U	4.9U	4.8U	4.8U	4.7U	4.8U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.97UJ	0.97UJ	0.95U	0.95U	0.94UJ	0.95UJ
ACENAPHTHENE	20(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.97U	0.97U	0.088J	0.077J	0.31J	0.12J
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
ANTHRACENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
CHLOROBENZILATE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	[0.020J]	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.97UJ	0.97UJ	0.95UJ	0.95UJ	0.94U	0.95UJ
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.97U	0.97UJ	0.45J	0.49J	0.94U	0.95U
DIALLATE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
CHRYSENE	0.002(G)	µg/L	[0.029J]	0.19U	0.19U	0.19U	0.19U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
DIETHYL PHTHALATE	50(G)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
DIMETHYL PHTHALATE	50(G)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.97U	0.27J	0.95U	0.14J	0.94U	0.95U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.055J	0.19U	0.19U	0.19U	0.026J	0.19U
FLUORENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.97UJ	0.97UJ	0.95R	0.95R	0.94R	0.95UJ
HEXACHLOROETHANE	5(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
HEXACHLOROPROPENE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ISODRIN	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
ISOPHORONE	50(G)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
ISOSAFROLE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
KEPONE	NC	µg/L	3.9U	3.9U	3.8U	3.8U	3.8UJ	3.8U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
METHAPYRILENE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
METHYL METHANESULFONATE	NC	µg/L	0.97UJ	0.97UJ	0.95UJ	0.95UJ	0.94UJ	0.95UJ
NAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.036J	0.36	0.19U
NITROBENZENE	0.4(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
N-NITROSOPIPERIDINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
N-NITROSOPYRROLIDINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
O-TOLUIDINE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
PENTACHLOROBENZENE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
PENTACHLORONITROBENZENE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
PENTACHLOROPHENOL	1(S)	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
PHENACETIN	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U
PHENANTHRENE	50(G)	µg/L	0.052J	0.19U	0.19U	0.19U	0.065J	0.19U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
PHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	[1.9]	[6.2]	0.19U
P-PHENYLENEDIAMINE	NC	µg/L	19U	19U	19U	19U	19U	19U
PRONAMIDE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94UJ	0.95U
PYRENE	50(G)	µg/L	0.035J	0.19U	0.19U	0.19U	0.024J	0.19U
SAFROLE	NC	µg/L	0.97U	0.97U	0.95U	0.95U	0.94U	0.95U

NOTES:

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Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.7U	4.9U	4.7U	4.8U	8.1U	4.8U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
1,3,5-TRINITROBENZENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
1,3-DINITROBENZENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
1,4-NAPHTHOQUINONE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00J	0.00J	0.00J	0.00J	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00J	0.00J	0.00J	0.00J	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.94UJ	0.98UJ	0.94UJ	0.95UJ	1.6U	0.96U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
2,4-DINITROPHENOL	10(G)	µg/L	4.7U	4.9U	4.7U	4.8U	8.1U	4.8U
2,4-DINITROTOLUENE	5(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
2,6-DICHLOROPHENOL	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
2,6-DINITROTOLUENE	5(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
2-METHYLNAPHTHALENE	NC	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.94U	0.98U	0.94U	0.13J	1.6U	0.29J
2-NAPHTHYLAMINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
2-NITROANILINE	5(S)	µg/L	4.7U	4.9U	4.7U	4.8U	8.1U	4.8U
2-NITROPHENOL	1(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
3&4-METHYLPHENOL	NC	µg/L	0.94U	0.98U	0.087J	0.95U	1.6U	0.41J
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6R	0.96R
3-METHYLCHOLANTHRENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
3-NITROANILINE	5(S)	µg/L	4.7U	4.9U	4.7U	4.8U	8.1U	4.8U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.7U	4.9U	4.7U	4.8U	8.1U	4.8U
4-AMINOBIPHENYL	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
4-CHLOROANILINE	5(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
4-NITROANILINE	5(S)	µg/L	4.7U	4.9U	4.7U	4.8U	8.1U	4.8U
4-NITROPHENOL	1(S)	µg/L	4.7U	4.9U	4.7U	4.8U	8.1U	4.8U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6UJ	0.96UJ
ACENAPHTHENE	20(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
ACETOPHENONE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.18J
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
ANTHRACENE	50(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
CHLOROBENZILATE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.94UJ	0.98UJ	0.94UJ	0.95UJ	1.6U	0.96U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9U	2.0U	1.9U	1.9U	3.2U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
DIALLATE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
CHRYSENE	0.002(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
DIBENZOFURAN	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
DIETHYL PHTHALATE	50(G)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
DIMETHYL PHTHALATE	50(G)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
FLUORENE	50(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.94R	0.98R	0.94R	0.95R	1.6R	0.96R
HEXACHLOROETHANE	5(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
HEXACHLOROPROPENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
ISODRIN	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
ISOPHORONE	50(G)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
ISOSAFROLE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
KEPONE	NC	µg/L	3.8U	3.9U	3.8U	3.8U	6.5UJ	3.8UJ
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
METHAPYRILENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
METHYL METHANESULFONATE	NC	µg/L	0.94UJ	0.98UJ	0.94UJ	0.95UJ	1.6UJ	0.96UJ
NAPHTHALENE	10(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.3
NITROBENZENE	0.4(S)	µg/L	1.9U	2.0U	1.9U	1.9U	3.2U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
N-NITROSOPIPERIDINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
N-NITROSOPYRROLIDINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
O-TOLUIDINE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
PENTACHLOROBENZENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
PENTACHLORONITROBENZENE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
PENTACHLOROPHENOL	1(S)	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
PHENACETIN	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U
PHENANTHRENE	50(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
PHENOL	1(S)	µg/L	0.19U	0.20U	0.19U	0.19U	0.14J	0.78
P-PHENYLENEDIAMINE	NC	µg/L	19U	20U	19U	19U	32U	19U
PRONAMIDE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6UJ	0.96UJ
PYRENE	50(G)	µg/L	0.19U	0.20U	0.19U	0.19U	0.32U	0.19U
SAFROLE	NC	µg/L	0.94U	0.98U	0.94U	0.95U	1.6U	0.96U

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Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.8U	4.7U	4.8U	4.8U	4.8U	4.7U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
1,3,5-TRINITROBENZENE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
1,3-DINITROBENZENE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
1,4-NAPHTHOQUINONE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.95U	0.94UJ	0.96UJ	0.96UJ	0.95U	0.94UJ
2,4-DINITROPHENOL	10(G)	µg/L	4.8U	4.7U	4.8UJ	4.8U	4.8U	4.7U
2,4-DINITROTOLUENE	5(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
2,6-DICHLOROPHENOL	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
2,6-DINITROTOLUENE	5(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
2-METHYLNAPHTHALENE	NC	µg/L	0.086J	0.19U	0.19U	0.19U	0.19U	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.53J	0.94U	0.96U	0.96U	0.95U	0.94U
2-NAPHTHYLAMINE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
2-NITROANILINE	5(S)	µg/L	4.8U	4.7UJ	4.8UJ	4.8UJ	4.8U	4.7UJ
2-NITROPHENOL	1(S)	µg/L	0.95U	0.94U	0.96UJ	0.96U	0.95U	0.94U
3&4-METHYLPHENOL	NC	µg/L	9.6	0.94U	0.96U	0.96U	0.95U	0.94U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.95R	0.94U	0.96U	0.96U	0.95U	0.94U
3-METHYLCHOLANTHRENE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
3-NITROANILINE	5(S)	µg/L	4.8U	4.7U	4.8U	4.8U	4.8U	4.7U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.8U	4.7U	4.8U	4.8U	4.8UJ	4.7U
4-AMINOBIPHENYL	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U

NOTES:

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Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0049-02 / SB915-MW-113S / 05/04/2012 / Regular sample	SB915-0054-03 / SB915-MW-115BR / 05/25/2012 / Regular sample	SB915-0054-04 / SB915-MW-116S / 05/25/2012 / Regular sample	SB915-0054-02 / SB915-MW-117S / 05/25/2012 / Regular sample	SB915-0051-04 / SB915-MW-118BR / 05/18/2012 / Regular sample	SB915-0053-05 / SB915-MW-118S / 05/24/2012 / Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
4-CHLOROANILINE	5(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
4-NITROANILINE	5(S)	µg/L	4.8U	4.7U	4.8U	4.8U	4.8U	4.7U
4-NITROPHENOL	1(S)	µg/L	4.8U	4.7UJ	4.8U	4.8UJ	4.8U	4.7UJ
5-NITRO-O-TOLUIDINE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.95UJ	0.94U	0.96U	0.96U	0.95U	0.94U
ACENAPHTHENE	20(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.86J	0.94U	0.96U	0.96U	0.95U	0.94U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
ANTHRACENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
CHLOROBENZILATE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19UJ	0.19U	0.19UJ	0.19U	0.19UJ
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.95U	0.94U	0.96UJ	0.96U	0.95U	0.94U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9U	3.1	1.5J	1.3J	1.9U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.96U	0.96U	0.47J	0.94U
DIALLATE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
CHRYSENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19UJ	0.19UJ	0.19UJ	0.19U	0.19UJ
DIBENZOFURAN	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
DIETHYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
DIMETHYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.95U	0.94U	0.96UJ	0.96U	0.95U	0.94U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.95U	0.84J	0.96U	0.96U	0.95U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.19U	0.19U	0.095J	0.19U	0.19U	0.19U
FLUORENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.95R	0.94R	0.96UJ	0.96UJ	0.95R	0.94UJ
HEXACHLOROETHANE	5(S)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
HEXACHLOROPROPENE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19U	0.19UJ	0.19UJ	0.19UJ	0.19U	0.19UJ
ISODRIN	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
ISOPHORONE	50(G)	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
ISOSAFROLE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
KEPONE	NC	µg/L	3.8UJ	3.8UJ	3.8U	3.8UJ	3.8U	3.8UJ
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
METHAPYRILENE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
METHYL METHANESULFONATE	NC	µg/L	0.95UJ	0.94UJ	0.96UJ	0.96UJ	0.95UJ	0.94UJ
NAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
NITROBENZENE	0.4(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.95U	0.94U	0.96UJ	0.96U	0.95U	0.94U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
N-NITROSOPIPERIDINE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
N-NITROSOPYRROLIDINE	NC	µg/L	0.95U	0.94U	0.96UJ	0.96U	0.95U	0.94U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.95U	0.94UJ	0.96UJ	0.96UJ	0.95U	0.94UJ
O-TOLUIDINE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
PENTACHLOROBENZENE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
PENTACHLORONITROBENZENE	NC	µg/L	0.95U	0.94U	0.96UJ	0.96U	0.95U	0.94U
PENTACHLOROPHENOL	1(S)	µg/L	0.95U	0.94UJ	0.96U	0.96UJ	0.95U	0.94UJ
PHENACETIN	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U
PHENANTHRENE	50(G)	µg/L	0.057J	0.45	0.47	0.19U	0.45	0.44

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample
PHENOL	1(S)	µg/L	[6.7]	0.19U	0.19U	0.19U	0.19U	0.19U
P-PHENYLENEDIAMINE	NC	µg/L	19U	19UJ	19UJ	19UJ	19UJ	19UJ
PRONAMIDE	NC	µg/L	0.95UJ	0.94U	0.96U	0.96U	0.95U	0.94U
PYRENE	50(G)	µg/L	0.19U	0.19U	0.017J	0.19U	0.19U	0.19U
SAFROLE	NC	µg/L	0.95U	0.94U	0.96U	0.96U	0.95U	0.94U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.8UJ	4.8U	4.8U	4.7U	4.7U	4.7U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.96U	0.072J	0.96U	0.94U	0.94U	0.94U
1,3,5-TRINITROBENZENE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
1,3-DINITROBENZENE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
1,4-NAPHTHOQUINONE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00J	0.00J	0.00J	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00J	0.00J	0.00J	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.9	0.82	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
2,4-DINITROPHENOL	10(G)	µg/L	4.8UJ	4.8UJ	4.8UJ	4.7U	4.7U	4.7U
2,4-DINITROTOLUENE	5(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
2,6-DICHLOROPHENOL	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
2,6-DINITROTOLUENE	5(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
2-METHYLNAPHTHALENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.17J	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.96U	0.95U	0.96U	0.94U	[2.4]	0.94U
2-NAPHTHYLAMINE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
2-NITROANILINE	5(S)	µg/L	4.8U	4.8UJ	4.8UJ	4.7U	4.7U	4.7U
2-NITROPHENOL	1(S)	µg/L	0.96U	0.95UJ	0.96UJ	0.94U	0.94U	0.94U
3&4-METHYLPHENOL	NC	µg/L	0.96U	0.19J	0.96U	0.099J	6.2	0.94U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
3-METHYLCHOLANTHRENE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
3-NITROANILINE	5(S)	µg/L	4.8U	4.8U	4.8U	4.7U	4.7U	4.7U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.8U	4.8UJ	4.8UJ	4.7U	4.7U	4.7U
4-AMINOBIPHENYL	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U

NOTES:

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Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
4-CHLOROANILINE	5(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
4-NITROANILINE	5(S)	µg/L	4.8U	4.8U	4.8U	4.7U	4.7U	4.7U
4-NITROPHENOL	1(S)	µg/L	4.8UJ	4.8U	4.8U	4.7U	4.7U	4.7U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.96U	0.95U	0.96U	0.94UJ	0.94UJ	0.94UJ
ACENAPHTHENE	20(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.96U	0.51J	0.24J	0.94U	0.56J	0.22J
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
ANTHRACENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
CHLOROBENZILATE	NC	µg/L	0.96UJ	0.95U	0.96U	0.94U	0.94U	0.94U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.96U	0.95UJ	0.96UJ	0.94UJ	0.94UJ	0.94UJ
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9UJ	1.9U	1.9U	1.9U	1.9U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.96UJ	0.95UJ	0.96U	0.94U	0.94U	0.94U
DIALLATE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
CHRYSENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19UJ	0.19UJ	0.19U	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
DIETHYL PHTHALATE	50(G)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
DIMETHYL PHTHALATE	50(G)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.96U	0.95UJ	0.96UJ	0.94U	0.94U	0.94U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U

NOTES:

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Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.017J	0.19U
FLUORENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.96R	0.95R	0.96R	0.94R	0.94R	0.94UJ
HEXACHLOROETHANE	5(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
HEXACHLOROPROPENE	NC	µg/L	0.96UJ	0.95U	0.96U	0.94U	0.94U	0.94U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19U	0.19UJ	0.19UJ	0.19U	0.19U	0.19U
ISODRIN	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
ISOPHORONE	50(G)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
ISOSAFROLE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
KEPONE	NC	µg/L	3.8UJ	3.8U	3.8U	3.8U	3.8U	3.8U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
METHAPYRILENE	NC	µg/L	0.96UJ	0.95UJ	0.96UJ	0.94U	0.94U	0.94U
METHYL METHANESULFONATE	NC	µg/L	0.96UJ	0.95UJ	0.96UJ	0.94UJ	0.94UJ	0.94UJ
NAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.24	0.19U
NITROBENZENE	0.4(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.96U	0.95UJ	0.96UJ	0.94U	0.94U	0.94U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
N-NITROSOPIPERIDINE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
N-NITROSOPYRROLIDINE	NC	µg/L	0.96U	0.95U	0.96UJ	0.94U	0.94U	0.94U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.96U	0.95UJ	0.96UJ	0.94U	0.94U	0.94U
O-TOLUIDINE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
PENTACHLOROBENZENE	NC	µg/L	0.96U	0.95UJ	0.96U	0.94U	0.94U	0.94U
PENTACHLORONITROBENZENE	NC	µg/L	0.96U	0.95U	0.96UJ	0.94U	0.94U	0.94U
PENTACHLOROPHENOL	1(S)	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
PHENACETIN	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
PHENANTHRENE	50(G)	µg/L	0.19U	0.45	0.19U	0.19U	0.12J	0.19U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample
PHENOL	1(S)	µg/L	0.19U	[3.0]	0.19U	[57E]	[10]	0.19U
P-PHENYLENEDIAMINE	NC	µg/L	19UJ	19UJ	19UJ	19U	19U	19U
PRONAMIDE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U
PYRENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
SAFROLE	NC	µg/L	0.96U	0.95U	0.96U	0.94U	0.94U	0.94U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.9U	4.8U	4.7U	4.8U	4.8U	4.7U	4.7U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
1,3,5-TRINITROBENZENE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
1,3-DINITROBENZENE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
1,4-NAPHTHOQUINONE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00J	0.00UJ	0.00J	0.00J	0.00J	0.00UJ	0.00J
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00J	0.00UJ	0.00J	0.00J	0.00J	0.00UJ	0.00J
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.97U	0.95U	0.94U	0.95UJ	0.95UJ	0.94UJ	0.94UJ
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.97U	0.95U	1.7	0.95U	0.95U	0.94U	0.94U
2,4-DINITROPHENOL	10(G)	µg/L	4.9U	4.8U	4.7U	4.8U	4.8U	4.7U	4.7U
2,4-DINITROTOLUENE	5(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
2,6-DICHLOROPHENOL	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
2,6-DINITROTOLUENE	5(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
2-METHYLNAPHTHALENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.27J	0.95U	[35]	0.95U	0.95U	0.94U	0.94U
2-NAPHTHYLAMINE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
2-NITROANILINE	5(S)	µg/L	4.9UJ	4.8U	4.7U	4.8U	4.8U	4.7U	4.7U
2-NITROPHENOL	1(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
3&4-METHYLPHENOL	NC	µg/L	1.2	0.95U	62	0.95U	0.95U	0.94U	0.94U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.97U	0.95R	0.94R	0.95U	0.95U	0.94U	0.94U
3-METHYLCHOLANTHRENE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
3-NITROANILINE	5(S)	µg/L	4.9U	4.8U	4.7U	4.8U	4.8U	4.7U	4.7U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.9U	4.8U	4.7U	4.8U	4.8U	4.7U	4.7U
4-AMINOBIPHENYL	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U

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Honeywell
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Round 1 Groundwater
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Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
4-CHLOROANILINE	5(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
4-NITROANILINE	5(S)	µg/L	4.9U	4.8U	4.7U	4.8U	4.8U	4.7U	4.7U
4-NITROPHENOL	1(S)	µg/L	4.9UJ	4.8U	4.7U	4.8U	4.8U	4.7U	4.7U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.97U	0.95UJ	0.94UJ	0.95U	0.95U	0.94U	0.94U
ACENAPHTHENE	20(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.24J	0.95U	0.89J	0.95U	0.11J	0.94U	0.94U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
ANTHRACENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
CHLOROBENZILATE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U	0.19U	[0.099J]	0.19U	0.19U	0.19U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U	0.19U	0.077J	0.19U	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	[0.065J]	0.19U	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19UJ	0.19U	0.072J	0.19U	0.19U	0.19U	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	[0.063J]	0.19U	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.97U	0.95U	0.94U	0.95UJ	0.95UJ	0.94UJ	0.94UJ
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.6J	1.9U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.97U	0.95U	0.17J	0.46J	0.36J	0.60J	0.33J
DIALLATE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
CHRYSENE	0.002(G)	µg/L	0.19U	0.19U	[0.075J]	0.19U	0.19U	0.19U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19UJ	0.19U	0.064J	0.19U	0.19U	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
DIETHYL PHTHALATE	50(G)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
DIMETHYL PHTHALATE	50(G)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.97U	0.95U	0.14J	0.12J	0.95U	0.12J	0.94U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U

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Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
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Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.19U	0.19U	0.090J	0.047J	0.19U	0.19U	0.19U
FLUORENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.97R	0.95R	0.94R	0.95R	0.95R	0.94R	0.94R
HEXACHLOROETHANE	5(S)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
HEXACHLOROPROPENE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19UJ	0.19U	[0.070J]	0.19U	0.19U	0.19U	0.19U
ISODRIN	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
ISOPHORONE	50(G)	µg/L	0.97U	0.95U	0.24J	0.95U	0.95U	0.94U	0.94U
ISOSAFROLE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
KEPONE	NC	µg/L	3.9UJ	3.8UJ	3.8UJ	3.8U	3.8U	3.8U	3.8U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
METHAPYRILENE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
METHYL METHANESULFONATE	NC	µg/L	0.97UJ	0.95UJ	0.94UJ	0.95UJ	0.95UJ	0.94UJ	0.94UJ
NAPHTHALENE	10(G)	µg/L	0.19U	0.19U	2.6	0.19U	0.030J	0.19U	0.19U
NITROBENZENE	0.4(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
N-NITROSOPIPERIDINE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
N-NITROSOPYRROLIDINE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.97UJ	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
O-TOLUIDINE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
PENTACHLOROBENZENE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
PENTACHLORONITROBENZENE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
PENTACHLOROPHENOL	1(S)	µg/L	0.97UJ	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
PHENACETIN	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U
PHENANTHRENE	50(G)	µg/L	0.19U	0.19U	0.26	0.066J	0.19U	0.19U	0.19U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
PHENOL	1(S)	µg/L	[3.7]	0.19U	[110]	0.19U	0.19U	0.19U	0.19U
P-PHENYLENEDIAMINE	NC	µg/L	19UJ	19U	19U	19U	19U	19U	19U
PRONAMIDE	NC	µg/L	0.97U	0.95UJ	0.94UJ	0.95U	0.95U	0.94U	0.94U
PYRENE	50(G)	µg/L	0.19U	0.19U	0.096J	0.028J	0.19U	0.19U	0.19U
SAFROLE	NC	µg/L	0.97U	0.95U	0.94U	0.95U	0.95U	0.94U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.7U	4.7U	4.7U	4.8U	4.9U	4.7U	4.7U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.94U	0.94U	0.94U	0.12J	0.97U	0.94U	0.94U
1,3,5-TRINITROBENZENE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
1,3-DINITROBENZENE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
1,4-NAPHTHOQUINONE	NC	µg/L	0.94U	0.94U	0.94U	0.96UJ	0.97U	0.94U	0.94U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00J	0.00J	0.00UJ	0.00UJ	0.00UJ	0.00J	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00J	0.00J	0.00UJ	0.00UJ	0.00UJ	0.00J	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.94U	0.94U	0.94U	0.17J	0.97U	0.94U	0.94U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	[1.2]	0.19U	[9.4]	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97UJ	0.94U	0.94UJ
2,4-DINITROPHENOL	10(G)	µg/L	4.7U	4.7UJ	4.7UJ	4.8U	4.9U	4.7UJ	4.7U
2,4-DINITROTOLUENE	5(S)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
2,6-DICHLOROPHENOL	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
2,6-DINITROTOLUENE	5(S)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.94U	0.94U	0.94U	0.96UJ	0.97U	0.94U	0.94U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.94U	0.94U	0.26J	0.96U	0.97U	0.94U	0.94U
2-METHYLNAPHTHALENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.94U	[15]	0.94	0.96U	0.97U	0.94U	0.94U
2-NAPHTHYLAMINE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
2-NITROANILINE	5(S)	µg/L	4.7UJ	4.7UJ	4.7UJ	4.8U	4.9UJ	4.7UJ	4.7UJ
2-NITROPHENOL	1(S)	µg/L	0.94U	0.94UJ	0.94UJ	0.96U	0.97U	0.94UJ	0.94U
3&4-METHYLPHENOL	NC	µg/L	0.94U	52	4.2	0.18J	0.97U	0.94U	0.94U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
3-METHYLCHOLANTHRENE	NC	µg/L	0.94U	0.94U	0.94U	0.96UJ	0.97U	0.94U	0.94U
3-NITROANILINE	5(S)	µg/L	4.7U	4.7U	4.7U	4.8U	4.9U	4.7U	4.7U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.7U	4.7UJ	4.7UJ	4.8U	4.9U	4.7U	4.7U
4-AMINOBIPHENYL	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
4-CHLOROANILINE	5(S)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
4-NITROANILINE	5(S)	µg/L	4.7U	4.7U	4.7U	4.8U	4.9U	4.7U	4.7U
4-NITROPHENOL	1(S)	µg/L	4.7UJ	4.7U	4.7U	4.8U	4.9UJ	4.7U	4.7UJ
5-NITRO-O-TOLUIDINE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
ACENAPHTHENE	20(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.94U	2.8	10	0.96U	0.97U	0.94U	0.94U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
ANTHRACENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
CHLOROBENZILATE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19UJ	0.19U	0.19U	0.19U	0.19UJ	0.19U	0.19UJ
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.94U	0.94UJ	0.94UJ	0.96U	0.97U	0.94UJ	0.94U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.94UJ	0.44J	0.94UJ	0.96U	0.97U	0.94UJ	0.94U
DIALLATE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
CHRYSENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19UJ	0.19UJ	0.19UJ	0.19U	0.19UJ	0.19UJ	0.19UJ
DIBENZOFURAN	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
DIETHYL PHTHALATE	50(G)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
DIMETHYL PHTHALATE	50(G)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.94U	0.94UJ	0.94UJ	0.96U	0.97U	0.94UJ	0.94U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
FLUORENE	50(G)	µg/L	0.19U	1.4	0.89	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.94R	0.94R	0.94R	0.96R	0.97UJ	0.94R	0.94UJ
HEXACHLOROETHANE	5(S)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
HEXACHLOROPROPENE	NC	µg/L	0.94U	0.94U	0.94U	0.96UJ	0.97U	0.94U	0.94U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19UJ	0.19UJ	0.19UJ	0.19U	0.19UJ	0.19UJ	0.19UJ
ISODRIN	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
ISOPHORONE	50(G)	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
ISOSAFROLE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
KEPONE	NC	µg/L	3.8UJ	3.8U	3.8U	3.8UJ	3.9UJ	3.8U	3.8UJ
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
METHAPYRILENE	NC	µg/L	0.94U	0.94UJ	0.94UJ	0.96U	0.97U	0.94UJ	0.94U
METHYL METHANESULFONATE	NC	µg/L	0.94UJ	0.94UJ	0.94UJ	0.96UJ	0.97UJ	0.94UJ	0.94UJ
NAPHTHALENE	10(G)	µg/L	0.19U	0.51	0.19U	0.19U	0.19U	0.19U	0.19U
NITROBENZENE	0.4(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.94U	0.94UJ	0.94UJ	0.96U	0.97U	0.94UJ	0.94U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
N-NITROSOPIPERIDINE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
N-NITROSOPYRROLIDINE	NC	µg/L	0.94U	0.94UJ	0.94UJ	0.96U	0.97U	0.94UJ	0.94U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.94UJ	0.94UJ	0.94UJ	0.96UJ	0.97UJ	0.94UJ	0.94UJ
O-TOLUIDINE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
PENTACHLOROBENZENE	NC	µg/L	0.94U	0.94UJ	0.94U	0.96U	0.97U	0.94UJ	0.94U
PENTACHLORONITROBENZENE	NC	µg/L	0.94U	0.94U	0.94UJ	0.96U	0.97U	0.94U	0.94U
PENTACHLOROPHENOL	1(S)	µg/L	0.94UJ	0.94U	0.94U	0.96U	0.97UJ	0.94U	0.94UJ
PHENACETIN	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
PHENANTHRENE	50(G)	µg/L	0.44	0.19U	0.19U	0.19U	0.19U	0.19U	0.44

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample
PHENOL	1(S)	µg/L	0.19U	[77]	[4.5]	0.47J	0.19U	0.19U	0.19U
P-PHENYLENEDIAMINE	NC	µg/L	19UJ	19UJ	19UJ	19U	19UJ	19UJ	19UJ
PRONAMIDE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U
PYRENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
SAFROLE	NC	µg/L	0.94U	0.94U	0.94U	0.96U	0.97U	0.94U	0.94U

NOTES:

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	0.36U	0.36U	4.7U	4.7U	4.7U	4.8U	4.7U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.061U	0.062U	0.94U	0.94U	0.94U	0.95U	0.94U
1,3,5-TRINITROBENZENE	NC	µg/L	0.039U	0.039U	0.94U	0.94U	0.94U	0.95U	0.94U
1,3-DINITROBENZENE	NC	µg/L	0.066U	0.066U	0.94U	0.94U	0.94U	0.95U	0.94U
1,4-NAPHTHOQUINONE	NC	µg/L	0.055U	0.055U	0.94U	0.94U	0.94U	0.95U	0.94U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00J	0.00J	0.00J	0.00UJ	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00J	0.00J	0.00J	0.00UJ	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.019U	0.019U	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.13U	0.13U	0.94U	0.94U	0.94U	0.95U	0.94U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.14U	0.15U	0.94U	0.94U	0.94U	0.95U	0.94U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.17UJ	0.17UJ	0.94U	0.94U	0.94U	0.95U	0.94U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.032U	0.032U	0.19U	0.19U	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.080U	0.081U	0.94U	0.94U	0.94U	0.95U	0.94U
2,4-DINITROPHENOL	10(G)	µg/L	0.58U	0.58U	4.7U	4.7U	4.7U	4.8U	4.7U
2,4-DINITROTOLUENE	5(S)	µg/L	0.051U	0.051U	0.94U	0.94U	0.94U	0.95U	0.94U
2,6-DICHLOROPHENOL	NC	µg/L	0.19U	0.19U	0.94U	0.94U	0.94U	0.95U	0.94U
2,6-DINITROTOLUENE	5(S)	µg/L	0.075U	0.076U	0.94U	0.94U	0.94U	0.95U	0.94U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.076U	0.077U	0.94U	0.94U	0.94U	0.95U	0.94U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.014U	0.014U	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.16U	0.16U	0.94U	0.94U	0.94U	0.95U	0.94U
2-METHYLNAPHTHALENE	NC	µg/L	0.012U	0.23	0.19U	0.19U	0.19U	0.19U	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.081U	[2.2]	0.94U	0.10J	0.94U	0.95U	0.94U
2-NAPHTHYLAMINE	NC	µg/L	0.14U	0.14U	0.94U	0.94U	0.94U	0.95U	0.94U
2-NITROANILINE	5(S)	µg/L	0.33U	0.33U	4.7UJ	4.7U	4.7U	4.8U	4.7U
2-NITROPHENOL	1(S)	µg/L	0.16U	0.16U	0.94U	0.94U	0.94U	0.95U	0.94U
3&4-METHYLPHENOL	NC	µg/L	0.085U	4.1	0.94U	0.58J	0.94U	0.95U	0.085U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.11U	0.11U	0.94U	0.94U	0.94U	0.95U	0.94U
3-METHYLCHOLANTHRENE	NC	µg/L	0.071U	0.072U	0.94U	0.94U	0.94U	0.95U	0.94U
3-NITROANILINE	5(S)	µg/L	0.30U	0.31U	4.7U	4.7U	4.7U	4.8U	4.7U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	0.21U	0.21U	4.7U	4.7U	4.7U	4.8U	4.7U
4-AMINOBIPHENYL	NC	µg/L	0.054U	0.054U	0.94U	0.94U	0.94U	0.95U	0.94U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.060U	0.060U	0.94U	0.94U	0.94U	0.95U	0.94U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.071U	0.072U	0.94U	0.94U	0.94U	0.95U	0.94U
4-CHLOROANILINE	5(S)	µg/L	0.083U	0.084U	0.94U	0.94U	0.94U	0.95U	0.94U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.047U	0.048U	0.94U	0.94U	0.94U	0.95U	0.94U
4-NITROANILINE	5(S)	µg/L	0.16U	0.16U	4.7U	4.7U	4.7U	4.8U	4.7U
4-NITROPHENOL	1(S)	µg/L	0.61U	0.62U	4.7UJ	4.7U	4.7U	4.8U	4.7U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.084U	0.085U	0.94U	0.94U	0.94U	0.95U	0.94U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.086U	0.087U	0.94U	0.94UJ	0.94UJ	0.95UJ	0.94UJ
ACENAPHTHENE	20(G)	µg/L	0.014U	0.26	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.014U	0.014U	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.075U	0.35J	0.94U	1.4	0.94U	0.95U	0.94U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.030U	0.030U	0.94U	0.94U	0.94U	0.95U	0.94U
ANTHRACENE	50(G)	µg/L	0.14U	0.14U	0.19U	0.19U	0.19U	0.19U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.091U	0.092U	0.94U	0.94U	0.94U	0.95U	0.94U
CHLOROBENZILATE	NC	µg/L	0.10U	0.10U	0.94U	0.94U	0.94U	0.95U	0.94U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.014U	0.014U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.013U	0.013U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.015U	0.015U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.014U	0.014U	0.19UJ	0.19U	0.19U	0.19U	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.052U	0.052U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.20UJ	0.20UJ	0.94U	0.94UJ	1.6J	0.95UJ	0.94UJ
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.055U	0.055U	0.94U	0.94U	0.94U	0.95U	0.94U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.024U	0.024U	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.2U	1.2U	2.6UJ	1.9U	1.9U	1.9U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.13U	0.14U	0.94U	0.94U	0.94U	0.95U	0.94U
DIALLATE	NC	µg/L	0.12U	0.12U	0.94U	0.94U	0.94U	0.95U	0.94U
CHRYSENE	0.002(G)	µg/L	0.013U	0.013U	0.19U	0.19U	0.19U	0.19U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.015U	0.015U	0.19UJ	0.19U	0.19U	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.058U	0.059U	0.94U	0.94U	0.94U	0.95U	0.94U
DIETHYL PHTHALATE	50(G)	µg/L	0.14U	0.14U	0.94U	0.94U	0.94U	0.95U	0.94U
DIMETHYL PHTHALATE	50(G)	µg/L	0.072U	0.073U	0.94U	0.94U	0.94U	0.95U	0.94U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.12U	0.12U	0.94U	0.94U	0.94U	0.95U	0.94U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.19U	0.20U	0.94U	0.94U	0.94U	0.95U	0.94U

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Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.015U	0.015U	0.19U	0.19U	0.19U	0.19U	0.19U
FLUORENE	50(G)	µg/L	0.020U	0.021U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.016U	0.016U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.049R	0.049R	0.94R	0.94UJ	0.94UJ	0.95UJ	0.94R
HEXACHLOROETHANE	5(S)	µg/L	0.059U	0.060U	0.94U	0.94U	0.94U	0.95U	0.94U
HEXACHLOROPROPENE	NC	µg/L	0.052U	0.052U	0.94U	0.94U	0.94U	0.95U	0.94U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.019U	0.019U	0.19UJ	0.19U	0.19U	0.19U	0.19U
ISODRIN	NC	µg/L	0.11U	0.11U	0.94U	0.94U	0.94U	0.95U	0.94U
ISOPHORONE	50(G)	µg/L	0.061U	0.061U	0.94U	0.94U	0.94U	0.95U	0.94U
ISOSAFROLE	NC	µg/L	0.10U	0.10U	0.94U	0.94U	0.94U	0.95U	0.94U
KEPONE	NC	µg/L	0.91U	0.92U	3.8UJ	3.8U	3.8U	3.8U	3.8U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.10U	0.10U	0.94U	0.94U	0.94U	0.95U	0.94U
METHAPYRILENE	NC	µg/L	0.072U	0.073U	0.94U	0.94U	0.94U	0.95U	0.94U
METHYL METHANESULFONATE	NC	µg/L	0.049UJ	0.049UJ	0.94UJ	0.94UJ	0.94UJ	0.95UJ	0.94UJ
NAPHTHALENE	10(G)	µg/L	0.013U	2.3	0.19U	0.19U	0.19U	0.19U	0.19U
NITROBENZENE	0.4(S)	µg/L	0.080U	0.080U	1.9U	1.9U	1.9U	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.097U	0.098U	0.94U	0.94U	0.94U	0.95U	0.94U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.069U	0.070U	0.94U	0.94U	0.94U	0.95U	0.94U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.12U	0.12U	0.94U	0.94U	0.94U	0.95U	0.94U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.029U	0.029U	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.080U	0.081U	0.94U	0.94U	0.94U	0.95U	0.94U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.082U	0.083U	0.94U	0.94U	0.94U	0.95U	0.94U
N-NITROSOPIPERIDINE	NC	µg/L	0.13U	0.13U	0.94U	0.94U	0.94U	0.95U	0.94U
N-NITROSOPYRROLIDINE	NC	µg/L	0.086U	0.087U	0.94U	0.94U	0.94U	0.95U	0.94U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.13U	0.13U	0.94U	0.94U	0.94U	0.95U	0.94U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.093U	0.093U	0.94UJ	0.94U	0.94U	0.95U	0.94U
O-TOLUIDINE	NC	µg/L	0.10U	0.10U	0.94U	0.94U	0.94U	0.95U	0.94U
PENTACHLOROBENZENE	NC	µg/L	0.080U	0.081U	0.94U	0.94U	0.94U	0.95U	0.94U
PENTACHLORONITROBENZENE	NC	µg/L	0.069U	0.070U	0.94U	0.94U	0.94U	0.95U	0.94U
PENTACHLOROPHENOL	1(S)	µg/L	0.063U	0.063U	0.94UJ	0.94U	0.94U	0.95U	0.94U
PHENACETIN	NC	µg/L	0.071U	0.072U	0.94U	0.94U	0.94U	0.95U	0.94U
PHENANTHRENE	50(G)	µg/L	0.040U	0.075J	0.44	0.19U	0.19U	0.19U	0.19U

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Honeywell
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Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

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PHENOL	1(S)	µg/L	0.055U	[7.0]	0.19U	0.19U	0.19U	0.19U	0.19U
P-PHENYLENEDIAMINE	NC	µg/L	1.0U	1.0U	19UJ	19U	19U	19U	19U
PRONAMIDE	NC	µg/L	0.081U	0.081U	0.94U	0.94U	0.94U	0.95U	0.94U
PYRENE	50(G)	µg/L	0.015U	0.015U	0.19U	0.19U	0.19U	0.19U	0.19U
SAFROLE	NC	µg/L	0.12U	0.12U	0.94U	0.94U	0.94U	0.95U	0.94U

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Honeywell
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Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.8U	4.7U	4.7U	4.7U	4.7U	4.8U	4.8U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
1,3,5-TRINITROBENZENE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
1,3-DINITROBENZENE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
1,4-NAPHTHOQUINONE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
2,4-DINITROPHENOL	10(G)	µg/L	4.8U	4.7U	4.7U	4.7U	4.7U	4.8U	4.8U
2,4-DINITROTOLUENE	5(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
2,6-DICHLOROPHENOL	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
2,6-DINITROTOLUENE	5(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
2-METHYLNAPHTHALENE	NC	µg/L	0.058J	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.69J	0.94U	[18]	0.94U	[15]	0.96U	[1.2]
2-NAPHTHYLAMINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
2-NITROANILINE	5(S)	µg/L	4.8U	4.7U	4.7U	4.7U	4.7U	4.8U	4.8U
2-NITROPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
3&4-METHYLPHENOL	NC	µg/L	3.3	0.20J	520E	0.94U	110	0.96U	17
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
3-METHYLCHOLANTHRENE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
3-NITROANILINE	5(S)	µg/L	4.8U	4.7U	4.7U	4.7U	4.7U	4.8U	4.8U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.8U	4.7U	4.7U	4.7U	4.7U	4.8U	4.8U
4-AMINOBIPHENYL	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
4-CHLOROANILINE	5(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
4-NITROANILINE	5(S)	µg/L	4.8U	4.7U	4.7U	4.7U	4.7U	4.8U	4.8U
4-NITROPHENOL	1(S)	µg/L	4.8U	4.7U	4.7U	4.7U	4.7U	4.8U	4.8U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.95UJ	0.94U	0.94U	0.94UJ	0.94UJ	0.96UJ	0.95UJ
ACENAPHTHENE	20(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.58J	0.94U	0.94U	0.94U	0.94U	0.25J	0.33J
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
ANTHRACENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
CHLOROBENZILATE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	[0.023J]	0.19U	0.19U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	[0.024J]	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.22J	0.94U	0.94U	0.94UJ	0.94UJ	0.96UJ	0.95UJ
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
DIALLATE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
CHRYSENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	[0.022J]	0.19U	0.19U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
DIETHYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
DIMETHYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
FLUORENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.95R	0.94R	0.94R	0.94R	0.94R	0.96R	0.95R
HEXACHLOROETHANE	5(S)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
HEXACHLOROPROPENE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
ISODRIN	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
ISOPHORONE	50(G)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
ISOSAFROLE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
KEPONE	NC	µg/L	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
METHAPYRILENE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
METHYL METHANESULFONATE	NC	µg/L	0.95UJ	0.94UJ	0.94UJ	0.94UJ	0.94UJ	0.96UJ	0.95UJ
NAPHTHALENE	10(G)	µg/L	0.9	0.19U	0.19U	0.19U	0.043J	0.19U	0.19U
NITROBENZENE	0.4(S)	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
N-NITROSOPIPERIDINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
N-NITROSOPYRROLIDINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
O-TOLUIDINE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
PENTACHLOROBENZENE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
PENTACHLORONITROBENZENE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
PENTACHLOROPHENOL	1(S)	µg/L	[1.7]	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
PHENACETIN	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
PHENANTHRENE	50(G)	µg/L	0.041J	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
PHENOL	1(S)	µg/L	[9.1]	0.19U	[380E]	0.19U	[170]	0.19U	[18]
P-PHENYLENEDIAMINE	NC	µg/L	19U	19U	19U	19U	19U	19U	19U
PRONAMIDE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U
PYRENE	50(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U	0.19U
SAFROLE	NC	µg/L	0.95U	0.94U	0.94U	0.94U	0.94U	0.96U	0.95U

NOTES:

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Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.8U	4.7U	4.7U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.95U	0.94U	0.94U
1,3,5-TRINITROBENZENE	NC	µg/L	0.95U	0.94U	0.94U
1,3-DINITROBENZENE	NC	µg/L	0.95U	0.94U	0.94U
1,4-NAPHTHOQUINONE	NC	µg/L	0.95U	0.94U	0.94U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.95U	0.94U	0.94U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.95U	0.94U	0.94U
2,4-DINITROPHENOL	10(G)	µg/L	4.8U	4.7U	4.7U
2,4-DINITROTOLUENE	5(S)	µg/L	0.95U	0.94U	0.94U
2,6-DICHLOROPHENOL	NC	µg/L	0.95U	0.94U	0.94U
2,6-DINITROTOLUENE	5(S)	µg/L	0.95U	0.94U	0.94U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.95U	0.94U	0.94U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U
2-METHYLNAPHTHALENE	NC	µg/L	0.2	0.19U	0.19U
2-METHYLPHENOL	1(S)	µg/L	[3.4]	0.94U	0.94U
2-NAPHTHYLAMINE	NC	µg/L	0.95U	0.94U	0.94U
2-NITROANILINE	5(S)	µg/L	4.8U	4.7U	4.7U
2-NITROPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U
3&4-METHYLPHENOL	NC	µg/L	18	0.94U	0.94U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.95U	0.94R	0.94R
3-METHYLCHOLANTHRENE	NC	µg/L	0.95U	0.94U	0.94U
3-NITROANILINE	5(S)	µg/L	4.8U	4.7U	4.7U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.8U	4.7U	4.7U
4-AMINOBIPHENYL	NC	µg/L	0.95U	0.94U	0.94U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.95U	0.94U	0.94U

NOTES:

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U
4-CHLOROANILINE	5(S)	µg/L	0.95U	0.94U	0.94U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.95U	0.94U	0.94U
4-NITROANILINE	5(S)	µg/L	4.8U	4.7U	4.7U
4-NITROPHENOL	1(S)	µg/L	4.8U	4.7U	4.7U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.95U	0.94U	0.94U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.95UJ	0.94UJ	0.94UJ
ACENAPHTHENE	20(G)	µg/L	0.26	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.95U	0.94U	0.94U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.95U	0.94U	0.94U
ANTHRACENE	50(G)	µg/L	0.19U	0.19U	0.19U
P_DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.95U	0.94U	0.94U
CHLOROBENZILATE	NC	µg/L	0.95U	0.94U	0.94U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U	0.19U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19U	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.95UJ	0.94U	0.94U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.95U	0.94U	0.94U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9U	1.9U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.94U
DIALLATE	NC	µg/L	0.95U	0.94U	0.94U
CHRYSENE	0.002(G)	µg/L	0.19U	0.19U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.15J	0.94U	0.94U
DIETHYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.94U
DIMETHYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.94U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.95U	0.94U	0.94U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.95U	0.94U	0.94U

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Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.033J	0.19U	0.19U
FLUORENE	50(G)	µg/L	0.19	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.95R	0.94R	0.94R
HEXACHLOROETHANE	5(S)	µg/L	0.95U	0.94U	0.94U
HEXACHLOROPROPENE	NC	µg/L	0.95U	0.94U	0.94U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19U	0.19U	0.19U
ISODRIN	NC	µg/L	0.95U	0.94U	0.94U
ISOPHORONE	50(G)	µg/L	0.95U	0.94U	0.94U
ISOSAFROLE	NC	µg/L	0.95U	0.94U	0.94U
KEPONE	NC	µg/L	3.8U	3.8UJ	3.8UJ
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.95U	0.94U	0.94U
METHAPYRILENE	NC	µg/L	0.95U	0.94U	0.94U
METHYL METHANESULFONATE	NC	µg/L	0.95UJ	0.94UJ	0.94UJ
NAPHTHALENE	10(G)	µg/L	0.73	0.19U	0.19U
NITROBENZENE	0.4(S)	µg/L	1.9U	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.95U	0.94U	0.94U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.95U	0.94U	0.94U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.95U	0.94U	0.94U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.95U	0.94U	0.94U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.95U	0.94U	0.94U
N-NITROSOPIPERIDINE	NC	µg/L	0.95U	0.94U	0.94U
N-NITROSOPYRROLIDINE	NC	µg/L	0.95U	0.94U	0.94U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.95U	0.94U	0.94U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.95U	0.94U	0.94U
O-TOLUIDINE	NC	µg/L	0.95U	0.94U	0.94U
PENTACHLOROBENZENE	NC	µg/L	0.95U	0.94U	0.94U
PENTACHLORONITROBENZENE	NC	µg/L	0.95U	0.94U	0.94U
PENTACHLOROPHENOL	1(S)	µg/L	0.95U	0.94U	0.94U
PHENACETIN	NC	µg/L	0.95U	0.94U	0.94U
PHENANTHRENE	50(G)	µg/L	0.35	0.19U	0.19U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 8
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
PHENOL	1(S)	µg/L	[14]	0.19U	0.19U
P-PHENYLENEDIAMINE	NC	µg/L	19U	19U	19U
PRONAMIDE	NC	µg/L	0.95U	0.94UJ	0.94UJ
PYRENE	50(G)	µg/L	0.19U	0.19U	0.19U
SAFROLE	NC	µg/L	0.95U	0.94U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
4,4'-DDE	0.2(S)	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
4,4'-DDT	0.2(S)	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
ALDRIN	NC	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
ALPHA-BHC	0.01(S)	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
BETA-BHC	0.04(S)	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
CHLORDANE	0.05(S)	µg/L	0.013UJ	0.012U	0.012U	0.012U	0.012U	0.012U	0.012UJ
DELTA-BHC	0.04(S)	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
DIELDRIN	0.004(S)	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
ENDOSULFAN I	NC	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
ENDOSULFAN II	NC	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
ENDOSULFAN SULFATE	NC	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
ENDRIN	NC	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0013UJ	0.0013U	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012UJ
GAMMA-BHC (LINDANE)	NC	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
HEPTACHLOR	0.04(S)	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012UJ
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0013UJ	0.0013U	0.0012U	0.0012U	0.0012U	0.00020J	0.0012UJ
METHOXYCHLOR	35(S)	µg/L	0.0025UJ	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024UJ
TOXAPHENE	0.09(S)	µg/L	0.10UJ	0.096U	0.095U	0.095U	0.095U	0.095U	0.095UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
4,4'-DDE	0.2(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
4,4'-DDT	0.2(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
ALDRIN	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
ALPHA-BHC	0.01(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
BETA-BHC	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013JN
CHLORDANE	0.05(S)	µg/L	0.012U	0.012U	0.012U	0.012U	0.012U	0.013U
DELTA-BHC	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
DIELDRIN	0.004(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
ENDOSULFAN I	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
ENDOSULFAN II	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
ENDOSULFAN SULFATE	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
ENDRIN	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
HEPTACHLOR	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0013U
METHOXYCHLOR	35(S)	µg/L	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0025U
TOXAPHENE	0.09(S)	µg/L	0.094U	0.095U	0.095U	0.094U	0.094U	0.10U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
4,4'-DDE	0.2(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
4,4'-DDT	0.2(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
ALDRIN	NC	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
ALPHA-BHC	0.01(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
BETA-BHC	0.04(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
CHLORDANE	0.05(S)	µg/L	0.012U	0.012U	0.012U	0.012U	0.012UJ	0.012UJ
DELTA-BHC	0.04(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
DIELDRIN	0.004(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
ENDOSULFAN I	NC	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
ENDOSULFAN II	NC	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
ENDOSULFAN SULFATE	NC	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
ENDRIN	NC	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
GAMMA-BHC (LINDANE)	NC	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
HEPTACHLOR	0.04(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0013U	0.0012U	0.0012U	0.0012U	0.0012UJ	0.0012UJ
METHOXYCHLOR	35(S)	µg/L	0.0024U	0.0024U	0.0024U	0.0024U	0.0024UJ	0.0024UJ
TOXAPHENE	0.09(S)	µg/L	0.096U	0.095U	0.095U	0.094U	0.094UJ	0.095UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012J	0.00082J	0.0012U	0.0012U	0.0013U	0.0012UJ
4,4'-DDE	0.2(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
4,4'-DDT	0.2(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013UJ	0.0012UJ
ALDRIN	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
ALPHA-BHC	0.01(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
BETA-BHC	0.04(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
CHLORDANE	0.05(S)	µg/L	0.012UJ	0.012U	0.012U	0.012U	0.013U	0.012UJ
DELTA-BHC	0.04(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
DIELDRIN	0.004(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
ENDOSULFAN I	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
ENDOSULFAN II	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
ENDOSULFAN SULFATE	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
ENDRIN	NC	µg/L	0.0011J	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
HEPTACHLOR	0.04(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0013U	0.0012UJ
METHOXYCHLOR	35(S)	µg/L	0.0024UJ	0.0024U	0.0024U	0.0024U	0.0025UJ	0.0024UJ
TOXAPHENE	0.09(S)	µg/L	0.095UJ	0.094U	0.095U	0.094U	0.10U	0.094UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0049-02 / SB915-MW-113S / 05/04/2012 / Regular sample	SB915-0054-03 / SB915-MW-115BR / 05/25/2012 / Regular sample	SB915-0054-04 / SB915-MW-116S / 05/25/2012 / Regular sample	SB915-0054-02 / SB915-MW-117S / 05/25/2012 / Regular sample	SB915-0051-04 / SB915-MW-118BR / 05/18/2012 / Regular sample	SB915-0053-05 / SB915-MW-118S / 05/24/2012 / Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
4,4'-DDE	0.2(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
4,4'-DDT	0.2(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ALDRIN	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ALPHA-BHC	0.01(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
BETA-BHC	0.04(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
CHLORDANE	0.05(S)	µg/L	0.012UJ	0.012U	0.012U	0.012U	0.012U	0.012U
DELTA-BHC	0.04(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0011J
DIELDRIN	0.004(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ENDOSULFAN I	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ENDOSULFAN II	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ENDOSULFAN SULFATE	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ENDRIN	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
HEPTACHLOR	0.04(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012UJ	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
METHOXYCHLOR	35(S)	µg/L	0.0024UJ	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U
TOXAPHENE	0.09(S)	µg/L	0.094UJ	0.095U	0.095U	0.094U	0.095U	0.094U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0067-01 / SB915-MW-36D / 07/27/2012 / Regular sample	SB915-0057-02 / SB915-MW-36I / 05/31/2012 / Regular sample	SB915-0057-01 / SB915-MW-36S / 05/31/2012 / Regular sample	SB915-0041-05 / SB915-MW-42D / 04/24/2012 / Regular sample	SB915-0041-04 / SB915-MW-42I / 04/24/2012 / Regular sample	SB915-0043-06 / SB915-MW-42S / 04/26/2012 / Regular sample	SB915-0052-02 / SB915-MW-43S / 05/23/2012 / Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
4,4'-DDE	0.2(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
4,4'-DDT	0.2(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ALDRIN	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ALPHA-BHC	0.01(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
BETA-BHC	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
CHLORDANE	0.05(S)	µg/L	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
DELTA-BHC	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
DIELDRIN	0.004(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ENDOSULFAN I	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ENDOSULFAN II	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ENDOSULFAN SULFATE	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ENDRIN	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
HEPTACHLOR	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012U	0.00055J	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U
METHOXYCHLOR	35(S)	µg/L	0.0024UJ	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U	0.0024U
TOXAPHENE	0.09(S)	µg/L	0.094U	0.095U	0.095U	0.094U	0.095U	0.095U	0.095U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
4,4'-DDE	0.2(S)	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
4,4'-DDT	0.2(S)	µg/L	0.0012UJ	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
ALDRIN	NC	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
ALPHA-BHC	0.01(S)	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
BETA-BHC	0.04(S)	µg/L	0.0012U	0.0013J	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
CHLORDANE	0.05(S)	µg/L	0.012U	0.012UJ	0.012U	0.012UJ	0.012U	0.012U	0.012U
DELTA-BHC	0.04(S)	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
DIELDRIN	0.004(S)	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
ENDOSULFAN I	NC	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
ENDOSULFAN II	NC	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
ENDOSULFAN SULFATE	NC	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
ENDRIN	NC	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012UJ	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
HEPTACHLOR	0.04(S)	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012U	0.0012UJ	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012U
METHOXYCHLOR	35(S)	µg/L	0.0024UJ	0.0024UJ	0.0024U	0.0024UJ	0.0024U	0.0024U	0.0024U
TOXAPHENE	0.09(S)	µg/L	0.095U	0.095UJ	0.094U	0.095UJ	0.095U	0.094U	0.095U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00064U
4,4'-DDE	0.2(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00075U
4,4'-DDT	0.2(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U	0.0012U	0.00070U
ALDRIN	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00079U
ALPHA-BHC	0.01(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00063U
BETA-BHC	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00095U
CHLORDANE	0.05(S)	µg/L	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.0016U
DELTA-BHC	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00036U
DIELDRIN	0.004(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00078U
ENDOSULFAN I	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00090U
ENDOSULFAN II	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00093U
ENDOSULFAN SULFATE	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00054U
ENDRIN	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00091U
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00086U
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00076U
HEPTACHLOR	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00094U
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00092U
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.0012U	0.00016U
METHOXYCHLOR	35(S)	µg/L	0.0024UJ	0.0024UJ	0.0024UJ	0.0024U	0.0024U	0.0024U	0.00087U
TOXAPHENE	0.09(S)	µg/L	0.095U	0.095U	0.094U	0.094U	0.095U	0.094U	0.018U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.00064UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
4,4'-DDE	0.2(S)	µg/L	0.0039JN	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
4,4'-DDT	0.2(S)	µg/L	0.00070UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
ALDRIN	NC	µg/L	0.00079UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
ALPHA-BHC	0.01(S)	µg/L	0.00063UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
BETA-BHC	0.04(S)	µg/L	0.00095UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
CHLORDANE	0.05(S)	µg/L	0.0016UJ	0.012U	0.025UJ	0.012UJ	0.012UJ	0.012U	0.012U
DELTA-BHC	0.04(S)	µg/L	0.00036UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0029JN
DIELDRIN	0.004(S)	µg/L	0.0015J	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
ENDOSULFAN I	NC	µg/L	0.00090UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
ENDOSULFAN II	NC	µg/L	0.00093UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
ENDOSULFAN SULFATE	NC	µg/L	0.00079J	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
ENDRIN	NC	µg/L	0.015J	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.00086UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
GAMMA-BHC (LINDANE)	NC	µg/L	0.00076UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
HEPTACHLOR	0.04(S)	µg/L	0.00094UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0014JN	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.0012U
HEXACHLOROBENZENE	0.04(S)	µg/L	0.00016UJ	0.0012U	0.0026UJ	0.0012UJ	0.0012UJ	0.0012U	0.00027J
METHOXYCHLOR	35(S)	µg/L	0.0071J	0.0024U	0.0050UJ	0.0024UJ	0.0024UJ	0.0024U	0.0024U
TOXAPHENE	0.09(S)	µg/L	0.018UJ	0.095U	0.20UJ	0.095UJ	0.095UJ	0.095U	0.095U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
4,4'-DDE	0.2(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
4,4'-DDT	0.2(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
ALDRIN	NC	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
ALPHA-BHC	0.01(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
BETA-BHC	0.04(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
CHLORDANE	0.05(S)	µg/L	0.012U	0.012U	0.012UJ	0.012U	0.012U	0.012UJ
DELTA-BHC	0.04(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
DIELDRIN	0.004(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
ENDOSULFAN I	NC	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
ENDOSULFAN II	NC	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
ENDOSULFAN SULFATE	NC	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
ENDRIN	NC	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
HEPTACHLOR	0.04(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012U	0.0012U	0.0012UJ	0.0012U	0.0012U	0.0012UJ
METHOXYCHLOR	35(S)	µg/L	0.0024U	0.0024U	0.0024UJ	0.0024U	0.0024U	0.0024UJ
TOXAPHENE	0.09(S)	µg/L	0.095U	0.094U	0.095UJ	0.095U	0.095U	0.095UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 9
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
4,4'-DDE	0.2(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
4,4'-DDT	0.2(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
ALDRIN	NC	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
ALPHA-BHC	0.01(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
BETA-BHC	0.04(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
CHLORDANE	0.05(S)	µg/L	0.012UJ	0.012UJ	0.012UJ
DELTA-BHC	0.04(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
DIELDRIN	0.004(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
ENDOSULFAN I	NC	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
ENDOSULFAN II	NC	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
ENDOSULFAN SULFATE	NC	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
ENDRIN	NC	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
HEPTACHLOR	0.04(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012UJ	0.0012UJ	0.0012UJ
METHOXYCHLOR	35(S)	µg/L	0.0024UJ	0.0024UJ	0.0024UJ
TOXAPHENE	0.09(S)	µg/L	0.095UJ	0.095UJ	0.095UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 / SB915-IMW-02S / 04/26/2012 / Regular sample	SB915-0055-03 / SB915-MW-01 / 05/29/2012 / Regular sample	SB915-0056-01 / SB915-MW-03 / 05/30/2012 / Regular sample	SB915-0056-02 / SB915-MW-04 / 05/30/2012 / Regular sample	SB915-0055-02 / SB915-MW-104I / 05/29/2012 / Regular sample	SB915-0056-05 / SB915-MW-104S / 05/30/2012 / Regular sample	SB915-0055-01 / SB915-MW-105BR / 05/29/2012 / Regular sample
DISULFOTON	NC	µg/L	1.0U	0.94U	0.95U	0.95U	0.94U	0.95U	0.95U
ETHYL PARATHION	NC	µg/L	1.0U	0.94U	0.95U	0.95U	0.94U	0.95U	0.95U
FAMPHUR	NC	µg/L	1.0U	0.94U	0.95U	0.95U	0.94U	0.95U	0.95U
Methyl parathion	NC	µg/L	1.0U	0.94U	0.95U	0.95U	0.94U	0.95U	0.95U
PHORATE	NC	µg/L	1.0U	0.94U	0.95U	0.95U	0.94U	0.95U	0.95U
THIONAZIN	NC	µg/L	1.0U	0.94U	0.95U	0.95U	0.94U	0.95U	0.95U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
DISULFOTON	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.94U	1.0U
ETHYL PARATHION	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.94U	1.0U
FAMPHUR	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.94U	1.0U
Methyl parathion	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.94U	1.0U
PHORATE	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.94U	1.0U
THIONAZIN	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.94U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
DISULFOTON	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	1.0U
ETHYL PARATHION	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	1.0U
FAMPHUR	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	1.0U
Methyl parathion	NC	µg/L	0.94U	0.95U	0.95UJ	0.95UJ	0.94U	1.0U
PHORATE	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	1.0U
THIONAZIN	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
DISULFOTON	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U	0.94U
ETHYL PARATHION	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U	0.94U
FAMPHUR	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U	0.94U
Methyl parathion	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U	0.94U
PHORATE	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U	0.94U
THIONAZIN	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample
DISULFOTON	NC	µg/L	0.94U	0.95U	0.95U	0.94U	0.94U	0.94U
ETHYL PARATHION	NC	µg/L	0.94U	0.95U	0.95U	0.94U	0.94U	0.94U
FAMPHUR	NC	µg/L	0.94U	0.95U	0.95U	0.94U	0.94U	0.94U
Methyl parathion	NC	µg/L	0.94U	0.95U	0.95U	0.94U	0.94U	0.94U
PHORATE	NC	µg/L	0.94U	0.95U	0.95U	0.94U	0.94U	0.94U
THIONAZIN	NC	µg/L	0.94U	0.95U	0.95U	0.94U	0.94U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample
DISULFOTON	NC	µg/L	0.96U	0.95U	0.95U	0.94U	0.94U	1.0U	0.95U
ETHYL PARATHION	NC	µg/L	0.96U	0.95U	0.95U	0.94U	0.94U	1.0U	0.95U
FAMPHUR	NC	µg/L	0.96U	0.95U	0.95U	0.94U	0.94U	1.0U	0.95U
Methyl parathion	NC	µg/L	0.96U	0.95U	0.95U	0.94U	0.94U	1.0U	0.95U
PHORATE	NC	µg/L	0.96U	0.95U	0.95U	0.94U	0.94U	1.0U	0.95U
THIONAZIN	NC	µg/L	0.96U	0.95U	0.95U	0.94U	0.94U	1.0U	0.95U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample
DISULFOTON	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.95U	0.94U	0.96U
ETHYL PARATHION	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.95U	0.94U	0.96U
FAMPHUR	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.95U	0.94U	0.96U
Methyl parathion	NC	µg/L	0.94UJ	0.95U	0.95UJ	0.95Uj	0.95U	0.94U	0.96U
PHORATE	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.95U	0.94U	0.96U
THIONAZIN	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.95U	0.94U	0.96U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample
DISULFOTON	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.95U	0.95U	0.096U
ETHYL PARATHION	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.95U	0.95U	0.15U
FAMPHUR	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.95U	0.95U	0.12U
Methyl parathion	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.95U	0.95U	0.11U
PHORATE	NC	µg/L	0.95U	0.95U	0.95U	0.94U	0.95U	0.95U	0.088U
THIONAZIN	NC	µg/L	0.95UJ	0.95UJ	0.95UJ	0.94U	0.95U	0.95U	0.11U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample
DISULFOTON	NC	µg/L	0.096U	0.95U	1.0U	1.0U	1.0U	0.95U	0.95U
ETHYL PARATHION	NC	µg/L	0.15U	0.95U	1.0U	1.0U	1.0U	0.95U	0.95U
FAMPHUR	NC	µg/L	0.12U	0.95U	1.0U	1.0U	1.0U	0.95U	0.95U
Methyl parathion	NC	µg/L	0.11U	0.95U	1.0U	1.0U	1.0U	0.95U	0.95U
PHORATE	NC	µg/L	0.088U	0.95U	1.0U	1.0U	1.0U	0.95U	0.95U
THIONAZIN	NC	µg/L	0.11U	0.95U	1.0U	1.0U	1.0U	0.95U	0.95U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
DISULFOTON	NC	µg/L	0.94U	0.94U	0.94U	0.95U	0.94U	0.94U
ETHYL PARATHION	NC	µg/L	0.94U	0.94U	0.94U	0.95U	0.94U	0.94U
FAMPHUR	NC	µg/L	0.94U	0.94U	0.94U	0.95U	0.94U	0.94U
Methyl parathion	NC	µg/L	0.94U	0.94U	0.94U	0.95U	0.94U	0.94U
PHORATE	NC	µg/L	0.94U	0.94U	0.94U	0.95U	0.94U	0.94U
THIONAZIN	NC	µg/L	0.94U	0.94U	0.94U	0.95U	0.94U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 10
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
DISULFOTON	NC	µg/L	0.94U	0.95U	0.95U
ETHYL PARATHION	NC	µg/L	0.94U	0.95U	0.95U
FAMPHUR	NC	µg/L	0.94U	0.95U	0.95U
Methyl parathion	NC	µg/L	0.94U	0.95U	0.95U
PHORATE	NC	µg/L	0.94U	0.95U	0.95U
THIONAZIN	NC	µg/L	0.94U	0.95U	0.95U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 / SB915-IMW-02S / 04/26/2012 / Regular sample	SB915-0055-03 / SB915-MW-01 / 05/29/2012 / Regular sample	SB915-0056-01 / SB915-MW-03 / 05/30/2012 / Regular sample	SB915-0056-02 / SB915-MW-04 / 05/30/2012 / Regular sample	SB915-0055-02 / SB915-MW-104I / 05/29/2012 / Regular sample	SB915-0056-05 / SB915-MW-104S / 05/30/2012 / Regular sample	SB915-0055-01 / SB915-MW-105BR / 05/29/2012 / Regular sample
2,4,5-T	NC	µg/L	1.0U	0.94U	0.95U	0.95U	0.95U	0.95U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	1.0U	0.94U	0.95U	0.95U	0.95U	0.95U	0.95U
2,4-D	NC	µg/L	4.0U	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.90U	0.85U	0.86U	0.86U	0.86U	0.86U	0.86U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
2,4,5-T	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.94U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.94U	0.95U
2,4-D	NC	µg/L	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.85U	0.85U	0.86U	0.85U	0.85U	0.86U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
2,4,5-T	NC	µg/L	0.97U	0.96U	0.95U	0.95U	0.94U	0.96U
2,4,5-TP (SILVEX)	NC	µg/L	0.97U	0.96U	0.95U	0.95U	0.94U	0.96U
2,4-D	NC	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.87U	0.87U	0.86U	0.86U	0.85U	0.87U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
2,4,5-T	NC	µg/L	0.94U	0.94U	0.94U	0.95U	0.95U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.94U	0.94U	0.94U	0.95U	0.95U	0.95U
2,4-D	NC	µg/L	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.85U	0.85U	0.85U	0.86U	0.86U	0.86U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample
2,4,5-T	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.94U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.94U	0.95U
2,4-D	NC	µg/L	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.85U	0.85U	0.86U	0.85U	0.85U	0.86U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0067-01 / SB915-MW-36D / 07/27/2012 / Regular sample	SB915-0057-02 / SB915-MW-36I / 05/31/2012 / Regular sample	SB915-0057-01 / SB915-MW-36S / 05/31/2012 / Regular sample	SB915-0041-05 / SB915-MW-42D / 04/24/2012 / Regular sample	SB915-0041-04 / SB915-MW-42I / 04/24/2012 / Regular sample	SB915-0043-06 / SB915-MW-42S / 04/26/2012 / Regular sample	SB915-0052-02 / SB915-MW-43S / 05/23/2012 / Regular sample
2,4,5-T	NC	µg/L	0.94U	0.95U	0.95U	0.94U	0.94U	0.99U	0.94U
2,4,5-TP (SILVEX)	NC	µg/L	0.94U	0.95U	0.95U	0.94U	0.94U	0.99U	0.94U
2,4-D	NC	µg/L	3.8U	3.8U	3.8U	3.8U	3.8U	4.0U	3.8U
DINOSEB	NC	µg/L	0.85U	0.86U	0.86U	0.85U	0.85U	0.89U	0.85U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample
2,4,5-T	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.95U	0.94U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.95U	0.94U	0.95U
2,4-D	NC	µg/L	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.85U	0.86U	0.86U	0.86U	0.86U	0.85U	0.86U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample
2,4,5-T	NC	µg/L	0.95U	0.95U	0.94U	0.95U	0.95U	0.95U	0.091U
2,4,5-TP (SILVEX)	NC	µg/L	0.95U	0.95U	0.94UJ	0.95U	0.95U	0.95U	0.10U
2,4-D	NC	µg/L	0.70J	3.8U	3.8UJ	3.8U	3.8U	3.8U	0.43U
DINOSEB	NC	µg/L	0.86U	0.86U	0.85UJ	0.86U	0.86U	0.86U	0.12U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample
2,4,5-T	NC	µg/L	0.092U	0.94U	1.0U	0.94U	0.95U	0.95U	0.94U
2,4,5-TP (SILVEX)	NC	µg/L	0.10U	0.94U	1.0U	0.94U	0.95U	0.95U	0.94U
2,4-D	NC	µg/L	0.43U	3.8U	4.0U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.12U	0.85U	0.90U	0.85U	0.86U	0.86U	0.85U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
2,4,5-T	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.95U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.95U	0.95U
2,4-D	NC	µg/L	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.85U	0.85U	0.86U	0.85U	0.86U	0.86U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 11
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
2,4,5-T	NC	µg/L	0.95U	0.94U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.95U	0.94U	0.95U
2,4-D	NC	µg/L	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.86U	0.85U	0.86U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample
Total PCBs	90(S)	ng/L	2.9598	1.9944	0.5635	0.5403	0.7465	0.4619
109-PeCB	NC	ng/L	0.0088QBC86J	0.018BC86J	0.011QBC86J	0.011QBC86J	0.012QBC86J	0.0048QBC86J
10-DiCB	NC	ng/L	0.003QJ	0.0017QJ	0.0019QBJ	0.038U	0.0025QJ	0.039U
112-PeCB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
142-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
143-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
160-HxCB	NC	ng/L	0.0062QC129J	0.012QBC129J	0.0067C129J	0.007BC129J	0.0089BC129J	0.0091QBC129J
161-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
162-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
164-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
165-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.017J	0.017J	0.038U	0.0017QJ	0.0029QJ	0.039U
203-OcCB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
21-TrCB C33	NC	ng/L	0.130BC	0.048BC	0.005QBCJ	0.0095BCJ	0.014BCJ	0.0062QBCJ
59-TeCB C62/75	NC	ng/L	0.0097QCJ	0.0078CJ	0.038U	0.038U	0.038U	0.039U
64-TeCB	NC	ng/L	0.046B	0.034BJ	0.0072QBJ	0.0072QBJ	0.013QBJ	0.0089QBJ
72-TeCB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
98-PeCB C102	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB 101	NC	ng/L	0.0064BC90J	0.017BC90J	0.0017QC90J	0.0032QBC90J	0.0063QBC90J	0.0083BC90J
PCB 102 (BZ)	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB 115 (BZ)	NC	ng/L	0.0083BC110J	0.021QC110J	0.0040BC110J	0.0046QC110J	0.0063C110J	0.0090QC110J
PCB 116 (BZ)	NC	ng/L	0.037U	0.0039C85J	0.038U	0.038U	0.038U	0.039U
PCB 117 (BZ)	NC	ng/L	0.037U	0.0039C85J	0.038U	0.038U	0.038U	0.039U
PCB 118	NC	ng/L	0.005QBJ	0.017BJ	0.0034QBJ	0.0044BJ	0.0042QBJ	0.0059BJ
PCB 125 (BZ)	NC	ng/L	0.0088QBC86J	0.018BC86J	0.011QBC86J	0.011QBC86J	0.012QBC86J	0.0048QBC86J
PCB 13 (BZ)	NC	ng/L	0.0054QBC12J	0.0048QBC12J	0.0040QC12J	0.0029QBC12J	0.0032QBC12J	0.058U
PCB 138	NC	ng/L	0.0062QC129J	0.012QBC129J	0.0067C129J	0.0070BC129J	0.0089BC129J	0.0091QBC129J
PCB 153	NC	ng/L	0.0041QBCJ	0.0077QBCJ	0.0057BCJ	0.0038QBCJ	0.0053QBCJ	0.0054QBCJ
PCB 163 (BZ)	NC	ng/L	0.0062QC129J	0.012QBC129J	0.0067C129J	0.0070BC129J	0.0089BC129J	0.0091QBC129J
PCB 209	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB 28	NC	ng/L	0.14BC20	0.059BC20	0.010BC20J	0.012BC20J	0.018BC20J	0.0096BC20J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample
PCB 30	NC	ng/L	0.088BC18	0.034C18J	0.0065QBC18J	0.0090C18J	0.029C18J	0.0074QC18J
PCB 52	NC	ng/L	0.076B	0.045	0.0045BJ	0.011J	0.021J	0.0075QJ
PCB 75 (BZ)	NC	ng/L	0.0097QC59J	0.0078C59J	0.038U	0.038U	0.038U	0.039U
PCB 91 (BZ)	NC	ng/L	0.037U	0.0031QC88J	0.038U	0.038U	0.038U	0.039U
PCB-1	NC	ng/L	0.0033QBJ	0.0034BJ	0.0043BJ	0.0025QBJ	0.0036BJ	0.0023QBJ
PCB-100	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-103	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-104	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-105	NC	ng/L	0.003QJ	0.0061QJ	0.038U	0.038U	0.0036J	0.0055J
PCB-106/118	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-107/109	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-108/112	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-11	NC	ng/L	0.029QBJ	0.038QBJ	0.022QBJ	0.02QBJ	0.017QBJ	0.026BJ
PCB-110	NC	ng/L	0.0083BCJ	0.021QCJ	0.004BCJ	0.0046QCJ	0.0063CJ	0.009QCJ
PCB-111/115	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-113	NC	ng/L	0.0064BC90J	0.017BC90J	0.0017QC90J	0.0032QBC90J	0.0063QBC90J	0.0083BC90J
PCB-114	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-119	NC	ng/L	0.0088QBC86J	0.018BC86J	0.011QBC86J	0.011QBC86J	0.012QBC86J	0.0048QBC86J
PCB-12/13	NC	ng/L	0.0054QBCJ	0.0048QBCJ	0.004QCJ	0.0029QBCJ	0.0032QBCJ	0.058U
PCB-120	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-121	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-122	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-123	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-124	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-126	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-127	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-128/162	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-129	NC	ng/L	0.0062QCJ	0.012QBCJ	0.0067CJ	0.007BCJ	0.0089BCJ	0.0091QBCJ
PCB-130	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-131	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-132/161	NC	ng/L	0.037U	0.0064QJ	0.038U	0.038U	0.0026QJ	0.0067QJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample
PCB-133/142	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-134/143	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-135	NC	ng/L	0.037U	0.0021QCJ	0.038U	0.038U	0.038U	0.039U
PCB-136	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.0017QJ
PCB-137	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-139/149	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-14	NC	ng/L	0.037U	0.038U	0.0019QJ	0.038U	0.038U	0.039U
PCB-140	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-141	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.0017QJ	0.039U
PCB-144	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-145	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-146/165	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-147	NC	ng/L	0.0066QCJ	0.012BCJ	0.0042QBCJ	0.0054BCJ	0.0059QBCJ	0.01QBCJ
PCB-148	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-149	NC	ng/L	0.0066QC147J	0.012BC147J	0.0042QBC147J	0.0054BC147J	0.0059QBC147J	0.010QBC147J
PCB-15	NC	ng/L	0.042QB	0.018QBJ	0.0046QBJ	0.004QBJ	0.0062QBJ	0.0033QBJ
PCB-150	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-151	NC	ng/L	0.037U	0.0021QC135J	0.038U	0.038U	0.038U	0.039U
PCB-152	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-153	NC	ng/L	0.0041C83J	0.0058QC83J	0.038U	0.038U	0.0029QC83J	0.005QC83J
PCB-154	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-155	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-156	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-157	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-158/160	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-159	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-16/32	NC	ng/L	0.067	0.025J	0.0038QJ	0.0065QJ	0.013J	0.039U
PCB-166	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-167	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-168	NC	ng/L	0.0041QBC153J	0.0077QBC153J	0.0057BC153J	0.0038QBC153J	0.0053QBC153J	0.0054QBC153J
PCB-169	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample
PCB-17	NC	ng/L	0.041	0.016QJ	0.0047QJ	0.0057J	0.0094QJ	0.039U
PCB-170	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-171	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-172	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-173	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-174	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-175	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-176	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-177	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-178	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-179	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-18	NC	ng/L	0.088BC	0.034CJ	0.0065QBCJ	0.009CJ	0.029CJ	0.0074QCJ
PCB-180	NC	ng/L	0.037U	0.0047CJ	0.038U	0.038U	0.0026QCJ	0.0037QCJ
PCB-181	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-182/187	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-183	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-184	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-185	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-186	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-188	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-189	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-19	NC	ng/L	0.0068QJ	0.038U	0.038U	0.038U	0.0043QJ	0.039U
PCB-190	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-191	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-192	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-193	NC	ng/L	0.037U	0.0047C180J	0.038U	0.038U	0.0026QC180J	0.0037QC180J
PCB-194	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-195	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-196/203	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-197	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-198	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample
PCB-199	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-2	NC	ng/L	0.037U	0.038U	0.0043QBJ	0.0039BJ	0.0053BJ	0.039U
PCB-20/21/33	NC	ng/L	0.14BC	0.059BC	0.01BCJ	0.012BCJ	0.018BCJ	0.0096BCJ
PCB-200	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-201	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-202	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-204	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-205	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-206	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-207	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-208	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-22	NC	ng/L	0.095B	0.033J	0.004BJ	0.0064J	0.0085J	0.0038QJ
PCB-23	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-24/27	NC	ng/L	0.0022QJ	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-25	NC	ng/L	0.0099J	0.0048J	0.038U	0.0013QJ	0.038U	0.039U
PCB-26	NC	ng/L	0.022CJ	0.0095CJ	0.0021CJ	0.0019CJ	0.0029QCJ	0.039U
PCB-27	NC	ng/L	0.0068QJ	0.003J	0.038U	0.038U	0.0015QJ	0.039U
PCB-29	NC	ng/L	0.022C26J	0.0095C26J	0.0021C26J	0.0019C26J	0.0029QC26J	0.039U
PCB-3	NC	ng/L	0.0033QJ	0.038U	0.0031QJ	0.0034BJ	0.0029QBJ	0.039U
PCB-31	NC	ng/L	0.11B	0.05B	0.0078BJ	0.0095QBJ	0.017BJ	0.0092BJ
PCB-32	NC	ng/L	0.032J	0.014BJ	0.0032QBJ	0.0026QBJ	0.0072QBJ	0.0026QBJ
PCB-33	NC	ng/L	0.13BC21	0.048BC21	0.0050QBC21J	0.0095BC21J	0.014BC21J	0.0062QBC21J
PCB-34	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-35	NC	ng/L	0.0042QJ	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-36	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-37	NC	ng/L	0.073B	0.027J	0.0024QJ	0.0053J	0.0039QJ	0.0035J
PCB-38	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-39	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-4/10	NC	ng/L	0.015QBJ	0.016QBJ	0.0061QBJ	0.0056QBJ	0.0097QBJ	0.0066QBJ
PCB-40	NC	ng/L	0.098C	0.054C	0.038U	0.004QCJ	0.013CJ	0.039U
PCB-42/59	NC	ng/L	0.034J	0.018QJ	0.038U	0.038U	0.0036QJ	0.039U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample
PCB-41/64/71/72	NC	ng/L	0.098C40	0.054C40	0.038U	0.004QC40J	0.013C40J	0.039U
PCB-43/49	NC	ng/L	0.0029QCJ	0.0029QCJ	0.038U	0.038U	0.0027CJ	0.039U
PCB-44	NC	ng/L	0.11BC	0.062BC	0.063BC	0.037BCJ	0.023BCJ	0.025QBCJ
PCB-45	NC	ng/L	0.028CJ	0.011QCJ	0.019CJ	0.014CJ	0.0055QCJ	0.01CJ
PCB-46	NC	ng/L	0.014J	0.0078J	0.038U	0.038U	0.004QJ	0.039U
PCB-47	NC	ng/L	0.11BC44	0.062BC44	0.063BC44	0.037BC44J	0.023BC44J	0.025QBC44J
PCB-48/75	NC	ng/L	0.024J	0.015J	0.038U	0.038U	0.0052QJ	0.039U
PCB-49	NC	ng/L	0.043C	0.027CJ	0.0038QCJ	0.0043QCJ	0.011CJ	0.0024QCJ
PCB-5	NC	ng/L	0.0018QJ	0.0019QBJ	0.0019QBJ	0.038U	0.0027QBJ	0.039U
PCB-50	NC	ng/L	0.016CJ	0.0081CJ	0.038U	0.038U	0.0057CJ	0.039U
PCB-51	NC	ng/L	0.028C45J	0.011QC45J	0.019C45J	0.014C45J	0.0055QC45J	0.010C45J
PCB-53	NC	ng/L	0.016C50J	0.0081C50J	0.038U	0.038U	0.0057C50J	0.039U
PCB-54	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-55	NC	ng/L	0.0014QJ	0.0037QJ	0.038U	0.038U	0.038U	0.039U
PCB-56/60	NC	ng/L	0.032J	0.036J	0.0019BJ	0.0028QJ	0.0051J	0.0039J
PCB-57	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-58	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-6	NC	ng/L	0.0086QBJ	0.0024QBJ	0.004QBJ	0.004QBJ	0.0047QBJ	0.0033QBJ
PCB-61/70	NC	ng/L	0.078BC	0.08BC	0.0049CJ	0.011BCJ	0.015QBCJ	0.0075QBCJ
PCB-62	NC	ng/L	0.0097QC59J	0.0078C59J	0.038U	0.038U	0.038U	0.039U
PCB-63	NC	ng/L	0.0015QJ	0.0021QJ	0.038U	0.038U	0.038U	0.039U
PCB-65	NC	ng/L	0.11BC44	0.062BC44	0.063BC44	0.037BC44J	0.023BC44J	0.025QBC44J
PCB-66	NC	ng/L	0.044B	0.046B	0.0027QBJ	0.0063QBJ	0.0084QBJ	0.0064BJ
PCB-67	NC	ng/L	0.037U	0.0023QJ	0.038U	0.038U	0.038U	0.039U
PCB-68	NC	ng/L	0.037U	0.038U	0.0062J	0.038U	0.038U	0.002QJ
PCB-69	NC	ng/L	0.043C49	0.027C49J	0.0038QC49J	0.0043QC49J	0.011C49J	0.0024QC49J
PCB-7/9	NC	ng/L	0.0041BJ	0.038U	0.0029QBJ	0.0027QBJ	0.0028QBJ	0.0032QBJ
PCB-70	NC	ng/L	0.078BC61	0.080BC61	0.0049C61J	0.011BC61J	0.015QBC61J	0.0075QBC61J
PCB-71	NC	ng/L	0.098C40	0.054C40	0.038U	0.0040QC40J	0.013C40J	0.039U
PCB-73	NC	ng/L	0.0029QC43J	0.0029QC43J	0.038U	0.038U	0.0027C43J	0.039U
PCB-74	NC	ng/L	0.078BC61	0.080BC61	0.0049C61J	0.011BC61J	0.015QBC61J	0.0075QBC61J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample
PCB-76/66	NC	ng/L	0.078BC61	0.080BC61	0.0049C61J	0.011BC61J	0.015QBC61J	0.0075QBC61J
PCB-77	NC	ng/L	0.037U	0.0025QJ	0.038U	0.038U	0.038U	0.039U
PCB-78	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-79	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-8	NC	ng/L	0.027QBJ	0.017QBJ	0.012QBJ	0.011QBJ	0.014QBJ	0.01QBJ
PCB-80	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-81	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-82	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-83	NC	ng/L	0.0041CJ	0.0058QCJ	0.038U	0.038U	0.0029QCJ	0.005QCJ
PCB-84/92	NC	ng/L	0.004J	0.01J	0.038U	0.038U	0.038U	0.039U
PCB-85/116	NC	ng/L	0.037U	0.0039CJ	0.038U	0.038U	0.038U	0.039U
PCB-86	NC	ng/L	0.0088QBCJ	0.018BCJ	0.011QBCJ	0.011QBCJ	0.012QBCJ	0.0048QBCJ
PCB-87	NC	ng/L	0.0088QBC86J	0.018BC86J	0.011QBC86J	0.011QBC86J	0.012QBC86J	0.0048QBC86J
PCB-88/91	NC	ng/L	0.037U	0.0031QCJ	0.038U	0.038U	0.038U	0.039U
PCB-89	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-9	NC	ng/L	0.0032QJ	0.0014QJ	0.0035QBJ	0.0041QJ	0.0021QJ	0.039U
PCB-90/101	NC	ng/L	0.0064BCJ	0.017BCJ	0.0017QCJ	0.0032QBCJ	0.0063QBCJ	0.0083BCJ
PCB-92	NC	ng/L	0.037U	0.0024QJ	0.038U	0.038U	0.038U	0.039U
PCB-93	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-94	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-95/98/102	NC	ng/L	0.011BJ	0.019J	0.0041J	0.003QJ	0.0084J	0.0071J
PCB-96	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
PCB-97	NC	ng/L	0.0088QBC86J	0.018BC86J	0.011QBC86J	0.011QBC86J	0.012QBC86J	0.0048QBC86J
Total Di-CB	NC	ng/L	0.14EMPC,U	0.10EPMC,U	0.065EPMC,U	0.055EPMC,U	0.065EPMC,U	0.052EPMC,U
Total Hepta-CB	NC	ng/L	0.037U	0.0077EPMC,U	0.038U	0.038U	0.0026EPMC,U	0.0037EPMC,J
Total Hexa-CB	NC	ng/L	0.017EMPC,U	0.040EPMC,U	0.017EPMC,U	0.016EPMC,U	0.024EPMC,U	0.033EPMC,U
Total Mono-CB	NC	ng/L	0.0067EMPC,U	0.0034U	0.012EPMC,U	0.0097EPMC,U	0.012EPMC,U	0.0023EPMC,U
Total Nona-CB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
Total Octa-CB	NC	ng/L	0.037U	0.038U	0.038U	0.038U	0.038U	0.039U
Total Penta-CB	NC	ng/L	0.050EMPC,U	0.12EPMC,U	0.025EPMC,U	0.026EPMC,U	0.043EPMC,U	0.046EPMC,U
Total Tetra-CB	NC	ng/L	0.68EMPC	0.48EPMC	0.11EPMC	0.099EPMC,J	0.14EPMC,U	0.074EPMC,U

NOTES:
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Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample
Total Tri-CB	NC	ng/L	0.82EMPC	0.32EPMC	0.049EPMC,U	0.070EPMC,U	0.13EPMC,U	0.042EPMC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample
Total PCBs	90(S)	ng/L	0.4668	0.53095	4.1418	0.6295	0.88128	0.5178
109-PeCB	NC	ng/L	0.0064QBC86J	0.014QBC86J	0.025QBC86J	0.018QBC86J	0.018BC86J	0.016QBC86J
10-DiCB	NC	ng/L	0.0045QJ	0.038U	0.0025QJ	0.038U	0.038U	0.038U
112-PeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
142-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
143-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
160-HxCB	NC	ng/L	0.013BC129J	0.0065BC129J	0.016QBC129J	0.0068QBC129J	0.0071QBC129J	0.0055QBC129J
161-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
162-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
164-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
165-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.038U	0.038U	0.016J	0.038U	0.0032QJ	0.038U
203-OcCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
21-TrCB C33	NC	ng/L	0.0065BCJ	0.0091BCJ	0.100BC	0.014BCJ	0.021BCJ	0.0089BCJ
59-TeCB C62/75	NC	ng/L	0.038U	0.038U	0.015CJ	0.038U	0.0014QCJ	0.038U
64-TeCB	NC	ng/L	0.012BJ	0.006BJ	0.057B	0.0068BJ	0.011BJ	0.0046QBJ
72-TeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
98-PeCB C102	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB 101	NC	ng/L	0.0054BC90J	0.0057BC90J	0.027BC90J	0.0055BC90J	0.0074BC90J	0.0056BC90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB 115 (BZ)	NC	ng/L	0.0057QC110J	0.0076BC110J	0.031BC110J	0.0056QBC110J	0.0055QBC110J	0.0067BC110J
PCB 116 (BZ)	NC	ng/L	0.038U	0.038U	0.0050C85J	0.038U	0.038U	0.038U
PCB 117 (BZ)	NC	ng/L	0.038U	0.038U	0.0050C85J	0.038U	0.038U	0.038U
PCB 118	NC	ng/L	0.0056QBJ	0.0046QBJ	0.016BJ	0.0041QBJ	0.0059QBJ	0.0051QBJ
PCB 125 (BZ)	NC	ng/L	0.0064QBC86J	0.014QBC86J	0.025QBC86J	0.018QBC86J	0.018BC86J	0.016QBC86J
PCB 13 (BZ)	NC	ng/L	0.0012QBC12J	0.0066QBC12J	0.0078QBC12J	0.0047QBC12J	0.0057QBC12J	0.0058QBC12J
PCB 138	NC	ng/L	0.013BC129J	0.0065BC129J	0.016QBC129J	0.0068QBC129J	0.0071QBC129J	0.0055QBC129J
PCB 153	NC	ng/L	0.0081QBCJ	0.0047BCJ	0.011QBCJ	0.0063BCJ	0.0067QBCJ	0.0062BCJ
PCB 163 (BZ)	NC	ng/L	0.013BC129J	0.0065BC129J	0.016QBC129J	0.0068QBC129J	0.0071QBC129J	0.0055QBC129J
PCB 209	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB 28	NC	ng/L	0.010BC20J	0.016BC20J	0.15BC20	0.023BC20J	0.034BC20J	0.015BC20J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample
PCB 30	NC	ng/L	0.010C18J	0.018BC18J	0.18BC18	0.021BC18J	0.028BC18J	0.019BC18J
PCB 52	NC	ng/L	0.0081J	0.0094BJ	0.15B	0.011BJ	0.018BJ	0.011BJ
PCB 75 (BZ)	NC	ng/L	0.038U	0.038U	0.015C59J	0.038U	0.0014QC59J	0.038U
PCB 91 (BZ)	NC	ng/L	0.038U	0.038U	0.0067C88J	0.038U	0.038U	0.038U
PCB-1	NC	ng/L	0.013BJ	0.0034BJ	0.0029BJ	0.0039QBJ	0.0052BJ	0.0036QBJ
PCB-100	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-103	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-104	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-105	NC	ng/L	0.0035J	0.0025QJ	0.0081J	0.038U	0.0025J	0.038U
PCB-106/118	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-107/109	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-108/112	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-11	NC	ng/L	0.021QBJ	0.031QBJ	0.05BJ	0.024BJ	0.028BJ	0.03QBJ
PCB-110	NC	ng/L	0.0057QCJ	0.0076BCJ	0.031BCJ	0.0056QBCJ	0.0055QBCJ	0.0067BCJ
PCB-111/115	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-113	NC	ng/L	0.0054BC90J	0.0057BC90J	0.027BC90J	0.0055BC90J	0.0074BC90J	0.0056BC90J
PCB-114	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-119	NC	ng/L	0.0064QBC86J	0.014QBC86J	0.025QBC86J	0.018QBC86J	0.018BC86J	0.016QBC86J
PCB-12/13	NC	ng/L	0.0012QBCJ	0.0066QBCJ	0.0078QBCJ	0.0047QBCJ	0.0057QBCJ	0.0058QBCJ
PCB-120	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-121	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-122	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-123	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-124	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-126	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-127	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-128/162	NC	ng/L	0.038U	0.038U	0.0018QCJ	0.038U	0.038U	0.038U
PCB-129	NC	ng/L	0.013BCJ	0.0065BCJ	0.016QBCJ	0.0068QBCJ	0.0071QBCJ	0.0055QBCJ
PCB-130	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-131	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-132/161	NC	ng/L	0.038U	0.038U	0.0071QJ	0.0024J	0.0022QJ	0.038U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample
PCB-133/142	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-134/143	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-135	NC	ng/L	0.038U	0.038U	0.0054CJ	0.038U	0.038U	0.038U
PCB-136	NC	ng/L	0.038U	0.038U	0.0025QJ	0.038U	0.038U	0.038U
PCB-137	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-139/149	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-14	NC	ng/L	0.0032QJ	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-140	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-141	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-144	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-145	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-146/165	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-147	NC	ng/L	0.013BCJ	0.0059BCJ	0.018BCJ	0.0046BCJ	0.0062BCJ	0.006QBCJ
PCB-148	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-149	NC	ng/L	0.013BC147J	0.0059BC147J	0.018BC147J	0.0046BC147J	0.0062BC147J	0.0060QBC147J
PCB-15	NC	ng/L	0.0048BJ	0.0075QBJ	0.029QBJ	0.0086QBJ	0.0095QBJ	0.0045QBJ
PCB-150	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-151	NC	ng/L	0.038U	0.038U	0.0054C135J	0.038U	0.038U	0.038U
PCB-152	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-153	NC	ng/L	0.038U	0.038U	0.016C83J	0.0037QC83J	0.0036QC83J	0.0027QC83J
PCB-154	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-155	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-156	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-157	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-158/160	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-159	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-16/32	NC	ng/L	0.038U	0.01QBJ	0.1B	0.0083QBJ	0.013QBJ	0.0079BJ
PCB-166	NC	ng/L	0.038U	0.038U	0.0018QC128J	0.038U	0.038U	0.038U
PCB-167	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-168	NC	ng/L	0.0081QBC153J	0.0047BC153J	0.011QBC153J	0.0063BC153J	0.0067QBC153J	0.0062BC153J
PCB-169	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample
PCB-17	NC	ng/L	0.0046J	0.0093BJ	0.081B	0.0092BJ	0.012BJ	0.0054QBJ
PCB-170	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-171	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-172	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-173	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-174	NC	ng/L	0.038U	0.0013QJ	0.038U	0.038U	0.038U	0.038U
PCB-175	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-176	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-177	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-178	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-179	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-18	NC	ng/L	0.01CJ	0.018BCJ	0.18BC	0.021BCJ	0.028BCJ	0.019BCJ
PCB-180	NC	ng/L	0.0064CJ	0.0024QCJ	0.0043QCJ	0.038U	0.0026QCJ	0.0027QCJ
PCB-181	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-182/187	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-183	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-184	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-185	NC	ng/L	0.0025C183J	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-186	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-188	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-189	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-19	NC	ng/L	0.0035QJ	0.038U	0.023J	0.038U	0.0053J	0.038U
PCB-190	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-191	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-192	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-193	NC	ng/L	0.0064C180J	0.0024QC180J	0.0043QC180J	0.038U	0.0026QC180J	0.0027QC180J
PCB-194	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-195	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-196/203	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-197	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-198	NC	ng/L	0.038U	0.038U	0.038U	0.0015CJ	0.038U	0.038U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample
PCB-199	NC	ng/L	0.038U	0.038U	0.038U	0.0015C198J	0.038U	0.038U
PCB-2	NC	ng/L	0.0028QBJ	0.0061BJ	0.0038QBJ	0.0062QBJ	0.006BJ	0.0084BJ
PCB-20/21/33	NC	ng/L	0.01BCJ	0.016BCJ	0.15BC	0.023BCJ	0.034BCJ	0.015BCJ
PCB-200	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-201	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-202	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-204	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-205	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-206	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-207	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-208	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-22	NC	ng/L	0.0037J	0.0075BJ	0.068B	0.0097BJ	0.015BJ	0.0048QBJ
PCB-23	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-24/27	NC	ng/L	0.038U	0.038U	0.0043J	0.038U	0.038U	0.038U
PCB-25	NC	ng/L	0.038U	0.00095QJ	0.011J	0.0019QJ	0.0019QJ	0.038U
PCB-26	NC	ng/L	0.0015CJ	0.0026BCJ	0.027BCJ	0.0037BCJ	0.0059BCJ	0.0027BCJ
PCB-27	NC	ng/L	0.038U	0.038U	0.011J	0.038U	0.038U	0.038U
PCB-29	NC	ng/L	0.0015C26J	0.0026BC26J	0.027BC26J	0.0037BC26J	0.0059BC26J	0.0027BC26J
PCB-3	NC	ng/L	0.0025QBJ	0.004QBJ	0.0043BJ	0.0051BJ	0.0045QBJ	0.0056QBJ
PCB-31	NC	ng/L	0.0076BJ	0.013BJ	0.15B	0.02BJ	0.029BJ	0.011QBJ
PCB-32	NC	ng/L	0.0015QBJ	0.006BJ	0.055QB	0.0062QBJ	0.0088BJ	0.0052BJ
PCB-33	NC	ng/L	0.0065BC21J	0.0091BC21J	0.10BC21	0.014BC21J	0.021BC21J	0.0089BC21J
PCB-34	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-35	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0013QJ	0.038U
PCB-36	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-37	NC	ng/L	0.0026J	0.0029QBJ	0.031BJ	0.0051QBJ	0.0087QBJ	0.0034QBJ
PCB-38	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-39	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-4/10	NC	ng/L	0.029QBJ	0.011QBJ	0.034QBJ	0.0063QBJ	0.016QBJ	0.0051QBJ
PCB-40	NC	ng/L	0.038U	0.0048BQCJ	0.092BC	0.0059BCJ	0.011BCJ	0.0051BCJ
PCB-42/59	NC	ng/L	0.038U	0.038U	0.04	0.003QJ	0.0044QJ	0.038U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample
PCB-41/64/71/72	NC	ng/L	0.038U	0.0048BQC40J	0.092BC40	0.0059BC40J	0.011BC40J	0.0051BC40J
PCB-43/49	NC	ng/L	0.038U	0.038U	0.0083CJ	0.038U	0.038U	0.038U
PCB-44	NC	ng/L	0.01BCJ	0.009BCJ	0.14BC	0.014BCJ	0.022BCJ	0.0084QBCJ
PCB-45	NC	ng/L	0.038U	0.038U	0.048C	0.038U	0.0053QCJ	0.038U
PCB-46	NC	ng/L	0.038U	0.038U	0.015QJ	0.038U	0.038U	0.038U
PCB-47	NC	ng/L	0.010BC44J	0.0090BC44J	0.14BC44	0.014BC44J	0.022BC44J	0.0084QBC44J
PCB-48/75	NC	ng/L	0.038U	0.038U	0.033QJ	0.0022J	0.0038QJ	0.0028QJ
PCB-49	NC	ng/L	0.0038CJ	0.0043QBCJ	0.075BC	0.0051QBCJ	0.0088QBCJ	0.0045QBCJ
PCB-5	NC	ng/L	0.0009QBJ	0.038U	0.0031QJ	0.038U	0.00098QJ	0.0011QJ
PCB-50	NC	ng/L	0.038U	0.0019QCJ	0.027QCJ	0.0014QCJ	0.0029QCJ	0.038U
PCB-51	NC	ng/L	0.038U	0.038U	0.048C45	0.038U	0.0053QC45J	0.038U
PCB-53	NC	ng/L	0.038U	0.0019QC50J	0.027QC50J	0.0014QC50J	0.0029QC50J	0.038U
PCB-54	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-55	NC	ng/L	0.038U	0.038U	0.0021QBJ	0.038U	0.038U	0.038U
PCB-56/60	NC	ng/L	0.038U	0.003J	0.031J	0.0036J	0.0057QJ	0.0028J
PCB-57	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-58	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-6	NC	ng/L	0.0034QBJ	0.0045QBJ	0.02QBJ	0.0042QBJ	0.0048QBJ	0.004QBJ
PCB-61/70	NC	ng/L	0.0099BCJ	0.0077QBCJ	0.1BC	0.011QBCJ	0.018QBCJ	0.0078QBCJ
PCB-62	NC	ng/L	0.038U	0.038U	0.015C59J	0.038U	0.0014QC59J	0.038U
PCB-63	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-65	NC	ng/L	0.010BC44J	0.0090BC44J	0.14BC44	0.014BC44J	0.022BC44J	0.0084QBC44J
PCB-66	NC	ng/L	0.0048QBJ	0.0037QBJ	0.046B	0.0062QBJ	0.012BJ	0.0045QBJ
PCB-67	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-68	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-69	NC	ng/L	0.0038C49J	0.0043QBC49J	0.075BC49	0.0051QBC49J	0.0088QBC49J	0.0045QBC49J
PCB-7/9	NC	ng/L	0.0016QBJ	0.0019QJ	0.0046QJ	0.0017QJ	0.0021QJ	0.038U
PCB-70	NC	ng/L	0.0099BC61J	0.0077QBC61J	0.10BC61	0.011QBC61J	0.018QBC61J	0.0078QBC61J
PCB-71	NC	ng/L	0.038U	0.0048QBC40J	0.092BC40	0.0059BC40J	0.011BC40J	0.0051BC40J
PCB-73	NC	ng/L	0.038U	0.038U	0.0083C43J	0.038U	0.038U	0.038U
PCB-74	NC	ng/L	0.0099BC61J	0.0077QBC61J	0.10BC61	0.011QBC61J	0.018QBC61J	0.0078QBC61J

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample
PCB-76/66	NC	ng/L	0.0099BC61J	0.0077QBC61J	0.10BC61	0.011QBC61J	0.018QBC61J	0.0078QBC61J
PCB-77	NC	ng/L	0.038U	0.038U	0.0029QJ	0.038U	0.038U	0.038U
PCB-78	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-79	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-8	NC	ng/L	0.009QBJ	0.016QBJ	0.074QB	0.016QBJ	0.022QBJ	0.015QBJ
PCB-80	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-81	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-82	NC	ng/L	0.038U	0.038U	0.004QJ	0.038U	0.038U	0.038U
PCB-83	NC	ng/L	0.038U	0.038U	0.016CJ	0.0037QCJ	0.0036QCJ	0.0027QCJ
PCB-84/92	NC	ng/L	0.038U	0.038U	0.013J	0.0024QJ	0.0027QJ	0.038U
PCB-85/116	NC	ng/L	0.038U	0.038U	0.005CJ	0.038U	0.038U	0.038U
PCB-86	NC	ng/L	0.0064QBCJ	0.014QBCJ	0.025QBCJ	0.018QBCJ	0.018BCJ	0.016QBCJ
PCB-87	NC	ng/L	0.0064QBC86J	0.014QBC86J	0.025QBC86J	0.018QBC86J	0.018BC86J	0.016QBC86J
PCB-88/91	NC	ng/L	0.038U	0.038U	0.0067CJ	0.038U	0.038U	0.038U
PCB-89	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-9	NC	ng/L	0.0025QJ	0.0026QBJ	0.0061QBJ	0.0017QBJ	0.0027QBJ	0.038U
PCB-90/101	NC	ng/L	0.0054BCJ	0.0057BCJ	0.027BCJ	0.0055BCJ	0.0074BCJ	0.0056BCJ
PCB-92	NC	ng/L	0.038U	0.038U	0.0059QJ	0.038U	0.038U	0.038U
PCB-93	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-94	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-95/98/102	NC	ng/L	0.038U	0.0053BJ	0.038BJ	0.0051BJ	0.0069BJ	0.0051QBJ
PCB-96	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-97	NC	ng/L	0.0064QBC86J	0.014QBC86J	0.025QBC86J	0.018QBC86J	0.018BC86J	0.016QBC86J
Total Di-CB	NC	ng/L	0.081EPMC,U	0.081EMPC,U	0.23EMPC,U	0.067EMPC,U	0.092EMPC,U	0.066EMPC,U
Total Hepta-CB	NC	ng/L	0.0089U	0.0038EMPC,J	0.0069EMPC,U	0.038U	0.0050EMPC,U	0.0044EMPC,U
Total Hexa-CB	NC	ng/L	0.034EPMC,U	0.017U	0.063EMPC,U	0.020EMPC,U	0.022EMPC,U	0.018EMPC,U
Total Mono-CB	NC	ng/L	0.019EPMC,U	0.013EMPC,U	0.011EMPC,U	0.015EMPC,U	0.016EMPC,U	0.018EMPC,U
Total Nona-CB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
Total Octa-CB	NC	ng/L	0.038U	0.038U	0.038U	0.0015J	0.038U	0.038U
Total Penta-CB	NC	ng/L	0.027EPMC,U	0.040EMPC,U	0.19EMPC,U	0.044EMPC,U	0.053EMPC,U	0.041EMPC,U
Total Tetra-CB	NC	ng/L	0.049EPMC,U	0.050EMPC,U	0.90EMPC	0.070EMPC,U	0.13EMPC,U	0.052EMPC,U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample
Total Tri-CB	NC	ng/L	0.052EPMC,U	0.095EMPC,U	0.99EMPC	0.12EMPC,U	0.18EMPC,U	0.083EMPC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample
Total PCBs	90(S)	ng/L	1.9803	0.8942	4.4178	1.0324	2.5871	1.38126
109-PeCB	NC	ng/L	0.035QBC86J	0.015BC86J	0.067BC86	0.016QBC86J	0.025QBC86J	0.012QBC86J
10-DiCB	NC	ng/L	0.037U	0.004QJ	0.0026QJ	0.0016QJ	0.0019QJ	0.0039QBJ
112-PeCB	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
142-HxCB	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
143-HxCB	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
160-HxCB	NC	ng/L	0.057BC129	0.0096C129J	0.062C129	0.0093BC129J	0.042BC129	0.012BC129J
161-HxCB	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
162-HxCB	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
164-HxCB	NC	ng/L	0.0026QJ	0.039U	0.0026QJ	0.039U	0.0034J	0.037U
165-HxCB	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.0033QJ	0.0042J	0.038	0.0034J	0.016J	0.0029J
203-OcCB	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.0039QJ	0.004QJ
21-TrCB C33	NC	ng/L	0.014QBCJ	0.018QBCJ	0.025BCJ	0.0084QBCJ	0.035BCJ	0.0065QBCJ
59-TeCB C62/75	NC	ng/L	0.037U	0.0022QCJ	0.0096CJ	0.0021CJ	0.0044QCJ	0.037U
64-TeCB	NC	ng/L	0.014BJ	0.014BJ	0.049B	0.011BJ	0.028BJ	0.0044QJ
72-TeCB	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
98-PeCB C102	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB 101	NC	ng/L	0.036BC90J	0.0086BC90J	0.073BC90	0.0083QBC90J	0.036BC90J	0.0063QC90J
PCB 102 (BZ)	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB 115 (BZ)	NC	ng/L	0.034BC110J	0.011QBC110J	0.097BC110	0.010QBC110J	0.041BC110	0.0092QC110J
PCB 116 (BZ)	NC	ng/L	0.037U	0.039U	0.020C85J	0.0020QC85J	0.0065C85J	0.037U
PCB 117 (BZ)	NC	ng/L	0.037U	0.039U	0.020C85J	0.0020QC85J	0.0065C85J	0.037U
PCB 118	NC	ng/L	0.02QBJ	0.0085BJ	0.093B	0.0073BJ	0.037BJ	0.0069BJ
PCB 125 (BZ)	NC	ng/L	0.035QBC86J	0.015BC86J	0.067BC86	0.016QBC86J	0.025QBC86J	0.012QBC86J
PCB 13 (BZ)	NC	ng/L	0.0071QBC12J	0.0024QBC12J	0.0045QBC12J	0.0015QBC12J	0.0047QBC12J	0.0097QBC12J
PCB 138	NC	ng/L	0.057BC129	0.0096C129J	0.062C129	0.0093BC129J	0.042BC129	0.012BC129J
PCB 153	NC	ng/L	0.055BC	0.0074BCJ	0.036BCJ	0.0074BCJ	0.036BCJ	0.008CJ
PCB 163 (BZ)	NC	ng/L	0.057BC129	0.0096C129J	0.062C129	0.0093BC129J	0.042BC129	0.012BC129J
PCB 209	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB 28	NC	ng/L	0.031BC20J	0.033BC20J	0.16BC20	0.017BC20J	0.064BC20	0.015BC20J

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample
PCB 30	NC	ng/L	0.026BC18J	0.026BC18J	0.041QBC18J	0.0083BC18J	0.037BC18J	0.016C18J
PCB 52	NC	ng/L	0.035BJ	0.021BJ	0.099B	0.016BJ	0.056B	0.01QBJ
PCB 75 (BZ)	NC	ng/L	0.037U	0.0022QC59J	0.0096C59J	0.0021C59J	0.0044QC59J	0.037U
PCB 91 (BZ)	NC	ng/L	0.037U	0.039U	0.0097QC88J	0.0023QC88J	0.0045QC88J	0.037U
PCB-1	NC	ng/L	0.004QBJ	0.003QBJ	0.0071QBJ	0.0022J	0.0077J	0.071B
PCB-100	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-103	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-104	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-105	NC	ng/L	0.0084QJ	0.0038QJ	0.041	0.003QJ	0.02J	0.0039QJ
PCB-106/118	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-107/109	NC	ng/L	0.037U	0.039U	0.0047QJ	0.039U	0.0022J	0.037U
PCB-108/112	NC	ng/L	0.037U	0.039U	0.0029QCJ	0.039U	0.038U	0.037U
PCB-11	NC	ng/L	0.034QBJ	0.033BJ	0.02QBJ	0.016QBJ	0.026QBJ	0.024QBJ
PCB-110	NC	ng/L	0.034BCJ	0.011QBCJ	0.097BC	0.01QBCJ	0.041BC	0.0092QCJ
PCB-111/115	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-113	NC	ng/L	0.036BC90J	0.0086BC90J	0.073BC90	0.0083QBC90J	0.036BC90J	0.0063QC90J
PCB-114	NC	ng/L	0.037U	0.039U	0.0022QJ	0.039U	0.038U	0.037U
PCB-119	NC	ng/L	0.035QBC86J	0.015BC86J	0.067BC86	0.016QBC86J	0.025QBC86J	0.012QBC86J
PCB-12/13	NC	ng/L	0.0071QBCJ	0.0024QBCJ	0.0045QBCJ	0.0015QBCJ	0.0047QBCJ	0.0097QBCJ
PCB-120	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-121	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-122	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-123	NC	ng/L	0.037U	0.039U	0.0024QJ	0.039U	0.038U	0.037U
PCB-124	NC	ng/L	0.037U	0.039U	0.0029QC108J	0.039U	0.038U	0.037U
PCB-126	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-127	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-128/162	NC	ng/L	0.0053QCJ	0.039U	0.01QCJ	0.039U	0.0053CJ	0.0016QCJ
PCB-129	NC	ng/L	0.057BC	0.0096CJ	0.062C	0.0093BCJ	0.042BC	0.012BCJ
PCB-130	NC	ng/L	0.037U	0.039U	0.0028QJ	0.039U	0.0025J	0.037U
PCB-131	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-132/161	NC	ng/L	0.018J	0.0037QJ	0.019J	0.0034J	0.014J	0.0035J

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Total PCBs determined by summing the detected PCB congeners.

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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample
PCB-133/142	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-134/143	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-135	NC	ng/L	0.018QCJ	0.039U	0.0098CJ	0.0027QCJ	0.015QCJ	0.037U
PCB-136	NC	ng/L	0.0067J	0.039U	0.0043QJ	0.039U	0.0034QJ	0.037U
PCB-137	NC	ng/L	0.037U	0.039U	0.0037QJ	0.039U	0.0012QJ	0.037U
PCB-139/149	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-14	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.0025QJ
PCB-140	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-141	NC	ng/L	0.011QJ	0.039U	0.0052QJ	0.0018QJ	0.006QJ	0.002QJ
PCB-144	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-145	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-146/165	NC	ng/L	0.0066QJ	0.039U	0.0042QJ	0.039U	0.0099J	0.037U
PCB-147	NC	ng/L	0.059BC	0.0066QCJ	0.033CJ	0.0074BCJ	0.037BCJ	0.0092QCJ
PCB-148	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-149	NC	ng/L	0.059BC147	0.0066QC147J	0.033C147J	0.0074BC147J	0.037BC147J	0.0092QC147J
PCB-15	NC	ng/L	0.0071QBJ	0.01QBJ	0.029QBJ	0.0045QBJ	0.013QBJ	0.012BJ
PCB-150	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-151	NC	ng/L	0.018QC135J	0.039U	0.0098C135J	0.0027QC135J	0.015QC135J	0.037U
PCB-152	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-153	NC	ng/L	0.017C83J	0.0049QC83J	0.057C83	0.0059QC83J	0.019QC83J	0.0048C83J
PCB-154	NC	ng/L	0.0021J	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-155	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-156	NC	ng/L	0.002QCJ	0.039U	0.0068CJ	0.039U	0.0034CJ	0.037U
PCB-157	NC	ng/L	0.0020QC156J	0.039U	0.0068C156J	0.039U	0.0034C156J	0.037U
PCB-158/160	NC	ng/L	0.0048J	0.039U	0.0056QJ	0.039U	0.0032QJ	0.00093QJ
PCB-159	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-16/32	NC	ng/L	0.012QBJ	0.012QJ	0.022J	0.0034QBJ	0.018BJ	0.007J
PCB-166	NC	ng/L	0.0053QC128J	0.039U	0.010QC128J	0.039U	0.0053C128J	0.0016QC128J
PCB-167	NC	ng/L	0.037U	0.039U	0.0018QJ	0.039U	0.038U	0.037U
PCB-168	NC	ng/L	0.055BC153	0.0074BC153J	0.036BC153J	0.0074BC153J	0.036BC153J	0.0080C153J
PCB-169	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample
PCB-17	NC	ng/L	0.011BJ	0.012J	0.022J	0.0041QBJ	0.013BJ	0.0076J
PCB-170	NC	ng/L	0.012QJ	0.039U	0.0042QJ	0.039U	0.011QJ	0.037U
PCB-171	NC	ng/L	0.0053CJ	0.039U	0.0016QCJ	0.039U	0.0027QCJ	0.037U
PCB-172	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.0019QJ	0.037U
PCB-173	NC	ng/L	0.0053C171J	0.039U	0.0016QC171J	0.039U	0.0027QC171J	0.037U
PCB-174	NC	ng/L	0.017QJ	0.039U	0.003J	0.039U	0.013J	0.0031QJ
PCB-175	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-176	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-177	NC	ng/L	0.01J	0.039U	0.038U	0.039U	0.0086J	0.037U
PCB-178	NC	ng/L	0.004QJ	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-179	NC	ng/L	0.0088QJ	0.039U	0.038U	0.039U	0.0061J	0.0019QJ
PCB-18	NC	ng/L	0.026BCJ	0.026BCJ	0.041QBCJ	0.0083BCJ	0.037BCJ	0.016CJ
PCB-180	NC	ng/L	0.029QCJ	0.0026CJ	0.0062CJ	0.039U	0.028CJ	0.0095CJ
PCB-181	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-182/187	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-183	NC	ng/L	0.019QJ	0.039U	0.0042QJ	0.039U	0.015QJ	0.0065QJ
PCB-184	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-185	NC	ng/L	0.011QC183J	0.039U	0.0017QC183J	0.039U	0.0079QC183J	0.0026QC183J
PCB-186	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-188	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-189	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-19	NC	ng/L	0.037U	0.039U	0.0084QJ	0.039U	0.0047J	0.037U
PCB-190	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.0013QJ	0.037U
PCB-191	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-192	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-193	NC	ng/L	0.029QC180J	0.0026C180J	0.0062C180J	0.039U	0.028C180J	0.0095C180J
PCB-194	NC	ng/L	0.0083J	0.039U	0.038U	0.039U	0.0078J	0.0033QJ
PCB-195	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.003J	0.037U
PCB-196/203	NC	ng/L	0.0031QJ	0.039U	0.038U	0.039U	0.038U	0.0021QJ
PCB-197	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-198	NC	ng/L	0.0056QCJ	0.039U	0.0021QCJ	0.039U	0.0088CJ	0.0091QCJ

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample
PCB-199	NC	ng/L	0.0056QC198J	0.039U	0.0021QC198J	0.039U	0.0088C198J	0.0091QC198J
PCB-2	NC	ng/L	0.006QBJ	0.0025BJ	0.0019QBJ	0.0016QJ	0.0031QJ	0.011BJ
PCB-20/21/33	NC	ng/L	0.031BCJ	0.033BCJ	0.16BC	0.017BCJ	0.064BC	0.015BCJ
PCB-200	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-201	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-202	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.0012J	0.0033J
PCB-204	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-205	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-206	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.0048J	0.0061J
PCB-207	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.00089QJ
PCB-208	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-22	NC	ng/L	0.0094QBJ	0.015BJ	0.061B	0.0071BJ	0.027BJ	0.0062BJ
PCB-23	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-24/27	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-25	NC	ng/L	0.0025QJ	0.0025J	0.007J	0.039U	0.0039J	0.037U
PCB-26	NC	ng/L	0.0056BCJ	0.0054CJ	0.015CJ	0.0022QBCJ	0.0095BCJ	0.0022QCJ
PCB-27	NC	ng/L	0.037U	0.039U	0.0054QJ	0.039U	0.0021QJ	0.037U
PCB-29	NC	ng/L	0.0056BC26J	0.0054C26J	0.015C26J	0.0022QBC26J	0.0095BC26J	0.0022QC26J
PCB-3	NC	ng/L	0.0064BJ	0.0029J	0.0026QJ	0.039U	0.0046QBJ	0.0098BJ
PCB-31	NC	ng/L	0.024QBJ	0.028BJ	0.07B	0.012BJ	0.053B	0.013BJ
PCB-32	NC	ng/L	0.007QBJ	0.0093J	0.025J	0.0037J	0.011J	0.0039J
PCB-33	NC	ng/L	0.014QBC21J	0.018QBC21J	0.025BC21J	0.0084QBC21J	0.035BC21J	0.0065QBC21J
PCB-34	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-35	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.0021J	0.00064QJ
PCB-36	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-37	NC	ng/L	0.0063QBJ	0.0083BJ	0.049B	0.0055BJ	0.022BJ	0.005J
PCB-38	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-39	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-4/10	NC	ng/L	0.013QBJ	0.0087QBJ	0.05QBJ	0.0037QBJ	0.015QBJ	0.14QB
PCB-40	NC	ng/L	0.015BCJ	0.012QCJ	0.056C	0.008QBCJ	0.033BCJ	0.0055QCJ
PCB-42/59	NC	ng/L	0.0061J	0.0043QJ	0.029J	0.0037QJ	0.014J	0.0023QJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample
PCB-41/64/71/72	NC	ng/L	0.015BC40J	0.012QC40J	0.056C40	0.008QBC40J	0.033BC40J	0.0055QC40J
PCB-43/49	NC	ng/L	0.037U	0.039U	0.0045QCJ	0.039U	0.0018QCJ	0.037U
PCB-44	NC	ng/L	0.03BCJ	0.025BCJ	0.1BC	0.12BC	0.055BC	0.11BC
PCB-45	NC	ng/L	0.007CJ	0.0056QCJ	0.013QCJ	0.031CJ	0.012QCJ	0.032CJ
PCB-46	NC	ng/L	0.037U	0.039U	0.0067J	0.039U	0.038U	0.037U
PCB-47	NC	ng/L	0.030BC44J	0.025BC44J	0.10BC44	0.12BC44	0.055BC44	0.11BC44
PCB-48/75	NC	ng/L	0.0035QJ	0.0062J	0.0098QJ	0.0035J	0.013J	0.037U
PCB-49	NC	ng/L	0.017BCJ	0.0092QCJ	0.056C	0.0073QBCJ	0.029BCJ	0.006QCJ
PCB-5	NC	ng/L	0.0015QJ	0.039U	0.038U	0.039U	0.0021QJ	0.0091J
PCB-50	NC	ng/L	0.0049CJ	0.0036QCJ	0.0098CJ	0.0026CJ	0.0072QCJ	0.037U
PCB-51	NC	ng/L	0.0070C45J	0.0056QC45J	0.013QC45J	0.031C45J	0.012QC45J	0.032C45J
PCB-53	NC	ng/L	0.0049C50J	0.0036QC50J	0.0098C50J	0.0026C50J	0.0072QC50J	0.037U
PCB-54	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-55	NC	ng/L	0.037U	0.039U	0.0039QJ	0.039U	0.0015QJ	0.037U
PCB-56/60	NC	ng/L	0.009J	0.0068J	0.06	0.006QJ	0.03J	0.0053J
PCB-57	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-58	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-6	NC	ng/L	0.0042QBJ	0.0049QBJ	0.0074QBJ	0.0011QBJ	0.0086QBJ	0.028QJ
PCB-61/70	NC	ng/L	0.033BCJ	0.02BCJ	0.16BC	0.019BCJ	0.084BC	0.013QBCJ
PCB-62	NC	ng/L	0.037U	0.0022QC59J	0.0096C59J	0.0021C59J	0.0044QC59J	0.037U
PCB-63	NC	ng/L	0.037U	0.039U	0.0044J	0.039U	0.0025QJ	0.037U
PCB-65	NC	ng/L	0.030BC44J	0.025BC44J	0.10BC44	0.12BC44	0.055BC44	0.11BC44
PCB-66	NC	ng/L	0.017BJ	0.011BJ	0.11B	0.013BJ	0.048B	0.0084J
PCB-67	NC	ng/L	0.037U	0.039U	0.0034QJ	0.039U	0.002J	0.037U
PCB-68	NC	ng/L	0.037U	0.039U	0.038U	0.011QJ	0.038U	0.028J
PCB-69	NC	ng/L	0.017BC49J	0.0092QC49J	0.056C49	0.0073QBC49J	0.029BC49J	0.0060QC49J
PCB-7/9	NC	ng/L	0.037U	0.039U	0.0025QBJ	0.0015QJ	0.0023QJ	0.0052QBJ
PCB-70	NC	ng/L	0.033BC61J	0.020BC61J	0.16BC61	0.019BC61J	0.084BC61	0.013QBC61J
PCB-71	NC	ng/L	0.015BC40J	0.012QC40J	0.056C40	0.0080QBC40J	0.033BC40J	0.0055QC40J
PCB-73	NC	ng/L	0.037U	0.039U	0.0045QC43J	0.039U	0.0018QC43J	0.037U
PCB-74	NC	ng/L	0.033BC61J	0.020BC61J	0.16BC61	0.019BC61J	0.084BC61	0.013QBC61J

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample
PCB-76/66	NC	ng/L	0.033BC61J	0.020BC61J	0.16BC61	0.019BC61J	0.084BC61	0.013QBC61J
PCB-77	NC	ng/L	0.037U	0.039U	0.0075J	0.039U	0.0034QJ	0.037U
PCB-78	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-79	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-8	NC	ng/L	0.021QBJ	0.017QBJ	0.029BJ	0.008QBJ	0.025QBJ	0.053BJ
PCB-80	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-81	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-82	NC	ng/L	0.0046J	0.039U	0.01QJ	0.039U	0.0072J	0.037U
PCB-83	NC	ng/L	0.017CJ	0.0049QCJ	0.057C	0.0059QCJ	0.019QCJ	0.0048CJ
PCB-84/92	NC	ng/L	0.0086J	0.0047J	0.02J	0.039U	0.0098QJ	0.0025QJ
PCB-85/116	NC	ng/L	0.037U	0.039U	0.02CJ	0.002QCJ	0.0065CJ	0.037U
PCB-86	NC	ng/L	0.035QBCJ	0.015BCJ	0.067BC	0.016QBCJ	0.025QBCJ	0.012QBCJ
PCB-87	NC	ng/L	0.035QBC86J	0.015BC86J	0.067BC86	0.016QBC86J	0.025QBC86J	0.012QBC86J
PCB-88/91	NC	ng/L	0.037U	0.039U	0.0097QCJ	0.0023QCJ	0.0045QCJ	0.037U
PCB-89	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-9	NC	ng/L	0.037U	0.039U	0.0036QJ	0.0022QBJ	0.0048QBJ	0.032BJ
PCB-90/101	NC	ng/L	0.036BCJ	0.0086BCJ	0.073BC	0.0083QBCJ	0.036BCJ	0.0063QCJ
PCB-92	NC	ng/L	0.0068J	0.039U	0.0094J	0.0017QJ	0.007J	0.037U
PCB-93	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-94	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-95/98/102	NC	ng/L	0.031BJ	0.0097BJ	0.059B	0.011QJ	0.029J	0.0066QJ
PCB-96	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.038U	0.037U
PCB-97	NC	ng/L	0.035QBC86J	0.015BC86J	0.067BC86	0.016QBC86J	0.025QBC86J	0.012QBC86J
Total Di-CB	NC	ng/L	0.088EMPC,U	0.080EMPC,U	0.15EMPC,U	0.040EMPC,U	0.10EMPC,U	0.32EMPC
Total Hepta-CB	NC	ng/L	0.12EMPC,J	0.0026J	0.021EMPC,J	0.0019J	0.095EMPC,J	0.024EMPC,J
Total Hexa-CB	NC	ng/L	0.25EMPC,U	0.027QJB	0.21EMPC	0.032EMPC,U	0.18EMPC	0.037EMPC
Total Mono-CB	NC	ng/L	0.016EMPC,U	0.0084EMPC,U	0.012EMPC,U	0.0038EMPC,U	0.015EMPC,J	0.092
Total Nona-CB	NC	ng/L	0.037U	0.039U	0.038U	0.039U	0.0048EMPC,J	0.0070EMPC,J
Total Octa-CB	NC	ng/L	0.017EMPC,J	0.039U	0.0021EMPC,J	0.039U	0.025EMPC,J	0.022EMPC,J
Total Penta-CB	NC	ng/L	0.20EMPC,U	0.066EMPC,U	0.57EMPC	0.067EMPC,U	0.24EMPC	0.052EMPC,U
Total Tetra-CB	NC	ng/L	0.20EMPC,J	0.15EMPC,U	0.83EMPC	0.25EMPC	0.44EMPC	0.23EMPC

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0050-01 / SB915-MW-107S / 05/17/2012 / Regular sample	SB915-0044-04 / SB915-MW-108BR / 04/27/2012 / Regular sample	SB915-0044-03 / SB915-MW-108D / 04/27/2012 / Regular sample	SB915-0047-05 / SB915-MW-108S / 05/02/2012 / Regular sample	SB915-0047-06 / SB915-MW-109I / 05/02/2012 / Regular sample	SB915-0049-01 / SB915-MW-109S / 05/04/2012 / Regular sample
Total Tri-CB	NC	ng/L	0.15EMPC,U	0.17EMPC,U	0.51EMPC	0.072EMPC,U	0.30EMPC	0.083EMPC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample
Total PCBs	90(S)	ng/L	0.4556	2.1047	0.54919	2.08658	436.9787	1.032
109-PeCB	NC	ng/L	0.0079QBC86J	0.018QBC86J	0.0057QBC86J	0.041BC86	3.3BC86	0.018QBC86J
10-DiCB	NC	ng/L	0.038U	0.038U	0.038U	0.0031QJ	0.012QJ	0.038U
112-PeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
142-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
143-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.12C134	0.038U
160-HxCB	NC	ng/L	0.011C129J	0.016BC129J	0.005QBC129J	0.032BC129J	1.5BC129	0.02QBC129J
161-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
162-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0063J	0.038U
164-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.002J	0.096	0.038U
165-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.038U	0.013J	0.0029QJ	0.016J	4.9	0.0038QJ
203-OcCB	NC	ng/L	0.038U	0.038U	0.038U	0.0008QJ	0.026J	0.038U
21-TrCB C33	NC	ng/L	0.0061QBCJ	0.069BC	0.0094BCJ	0.016BCJ	10BC	0.020BCJ
59-TeCB C62/75	NC	ng/L	0.038U	0.0069CJ	0.0015QCJ	0.0043CJ	1.6C	0.038U
64-TeCB	NC	ng/L	0.0071QBJ	0.03BJ	0.01BJ	0.027BJ	6.6B	0.0099J
72-TeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.065	0.038U
98-PeCB C102	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.26C	0.038U
PCB 101	NC	ng/L	0.0083BC90J	0.015BC90J	0.0052BC90J	0.034BC90J	3.2BC90	0.018C90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.26C98	0.038U
PCB 115 (BZ)	NC	ng/L	0.0077BC110J	0.019BC110J	0.0055BC110J	0.045BC110	4.0BC110	0.024C110J
PCB 116 (BZ)	NC	ng/L	0.038U	0.0026QC85J	0.038U	0.0083QC85J	1.1C85	0.038U
PCB 117 (BZ)	NC	ng/L	0.038U	0.0026QC85J	0.038U	0.0083QC85J	1.1C85	0.038U
PCB 118	NC	ng/L	0.0056BJ	0.013BJ	0.0034BJ	0.033BJ	3.4B	0.017QBJ
PCB 125 (BZ)	NC	ng/L	0.0079QBC86J	0.018QBC86J	0.0057QBC86J	0.041BC86	3.3BC86	0.018QBC86J
PCB 13 (BZ)	NC	ng/L	0.0032QBC12J	0.0078QBC12J	0.0020QBC12J	0.0050QBC12J	0.19BC12	0.0028QBC12J
PCB 138	NC	ng/L	0.011C129J	0.016BC129J	0.0050QBC129J	0.032BC129J	1.5BC129	0.020QBC129J
PCB 153	NC	ng/L	0.0051QBCJ	0.0096QBCJ	0.003QBCJ	0.02BCJ	0.85BC	0.012QCJ
PCB 163 (BZ)	NC	ng/L	0.011C129J	0.016BC129J	0.0050QBC129J	0.032BC129J	1.5BC129	0.020QBC129J
PCB 209	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0049QJ	0.038U
PCB 28	NC	ng/L	0.011QBC20J	0.080BC20	0.018BC20J	0.066BC20	15BC20	0.028BC20J

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample
PCB 30	NC	ng/L	0.0078QBC18J	0.056BC18J	0.016QBC18J	0.020BC18J	6.9BC18	0.025C18J
PCB 52	NC	ng/L	0.0098BJ	0.042QB	0.014BJ	0.046B	12B	0.021QBJ
PCB 75 (BZ)	NC	ng/L	0.038U	0.0069C59J	0.0015QC59J	0.0043C59J	1.6C59	0.038U
PCB 91 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.0042C88J	0.84C88	0.038U
PCB-1	NC	ng/L	0.038U	0.0035BJ	0.0031BJ	0.0037BJ	0.0067QBJ	0.0028QBJ
PCB-100	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.076C93	0.038U
PCB-103	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.026J	0.038U
PCB-104	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-105	NC	ng/L	0.0021QJ	0.0065QJ	0.0025QJ	0.015J	2.2	0.0069QJ
PCB-106/118	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-107/109	NC	ng/L	0.038U	0.0014QJ	0.038U	0.0017QJ	0.27	0.038U
PCB-108/112	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.16C	0.038U
PCB-11	NC	ng/L	0.024QBJ	0.033QBJ	0.033BJ	0.032QBJ	0.035BJ	0.019QBJ
PCB-110	NC	ng/L	0.0077BCJ	0.019BCJ	0.0055BCJ	0.045BC	4BC	0.024CJ
PCB-111/115	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0038J	0.038U
PCB-113	NC	ng/L	0.0083BC90J	0.015BC90J	0.0052BC90J	0.034BC90J	3.2BC90	0.018C90J
PCB-114	NC	ng/L	0.038U	0.038U	0.038U	0.00068QJ	0.17	0.038U
PCB-119	NC	ng/L	0.0079QBC86J	0.018QBC86J	0.0057QBC86J	0.041BC86	3.3BC86	0.018QBC86J
PCB-12/13	NC	ng/L	0.0032QBCJ	0.0078QBCJ	0.002QBCJ	0.005QBCJ	0.19BC	0.0028QBCJ
PCB-120	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0074J	0.038U
PCB-121	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-122	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.098	0.038U
PCB-123	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.12	0.038U
PCB-124	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.16C108	0.038U
PCB-126	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.016J	0.038U
PCB-127	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-128/162	NC	ng/L	0.038U	0.0024QCJ	0.038U	0.0051QCJ	0.25C	0.0048CJ
PCB-129	NC	ng/L	0.011CJ	0.016BCJ	0.005QBCJ	0.032BCJ	1.5BC	0.02QBCJ
PCB-130	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.1	0.038U
PCB-131	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038	0.038U
PCB-132/161	NC	ng/L	0.005QJ	0.0056J	0.038U	0.0097QJ	0.59	0.0065QJ

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Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample
PCB-133/142	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.018QJ	0.038U
PCB-134/143	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.12C	0.038U
PCB-135	NC	ng/L	0.038U	0.0036QCJ	0.038U	0.038U	0.28C	0.038U
PCB-136	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.13	0.038U
PCB-137	NC	ng/L	0.038U	0.038U	0.038U	0.002QJ	0.096	0.038U
PCB-139/149	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.03QCJ	0.038U
PCB-14	NC	ng/L	0.038U	0.002QJ	0.038U	0.038U	0.003QJ	0.038U
PCB-140	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.030QC139J	0.038U
PCB-141	NC	ng/L	0.038U	0.0018QJ	0.038U	0.0041J	0.27	0.038U
PCB-144	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.044	0.038U
PCB-145	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-146/165	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.16	0.038U
PCB-147	NC	ng/L	0.0094CJ	0.012BCJ	0.0043QBCJ	0.02BCJ	0.96BC	0.013CJ
PCB-148	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-149	NC	ng/L	0.0094C147J	0.012BC147J	0.0043QBC147J	0.020BC147J	0.96BC147	0.013C147J
PCB-15	NC	ng/L	0.0065QBJ	0.03QBJ	0.0093QBJ	0.018QBJ	1.3B	0.0065QBJ
PCB-150	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-151	NC	ng/L	0.038U	0.0036QC135J	0.038U	0.038U	0.28C135	0.038U
PCB-152	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-153	NC	ng/L	0.038U	0.0079QBC83J	0.0022QBC83J	0.023QBC83J	2.4BC83	0.0099QC83J
PCB-154	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-155	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-156	NC	ng/L	0.038U	0.038U	0.038U	0.0032QCJ	0.19C	0.0031QCJ
PCB-157	NC	ng/L	0.038U	0.038U	0.038U	0.0032QC156J	0.19C156	0.0031QC156J
PCB-158/160	NC	ng/L	0.038U	0.0024QJ	0.038U	0.0028J	0.16	0.0029QJ
PCB-159	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0023QJ	0.038U
PCB-16/32	NC	ng/L	0.0033QJ	0.038	0.038U	0.01QJ	3.6	0.013QJ
PCB-166	NC	ng/L	0.038U	0.0024QC128J	0.038U	0.0051QC128J	0.25C128	0.0048C128J
PCB-167	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.048	0.038U
PCB-168	NC	ng/L	0.0051QBC153J	0.0096QBC153J	0.0030QBC153J	0.020BC153J	0.85BC153	0.012QC153J
PCB-169	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U

NOTES:

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Total PCBs determined by summing the detected PCB congeners.

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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample
PCB-17	NC	ng/L	0.004QJ	0.022QJ	0.0083J	0.01J	3.4	0.011J
PCB-170	NC	ng/L	0.038U	0.038U	0.038U	0.0019QJ	0.14	0.038U
PCB-171	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038C	0.038U
PCB-172	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.013QJ	0.038U
PCB-173	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038C171	0.038U
PCB-174	NC	ng/L	0.038U	0.038U	0.038U	0.0025QJ	0.13Q	0.038U
PCB-175	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0058J	0.038U
PCB-176	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.015J	0.038U
PCB-177	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.063	0.038U
PCB-178	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.021J	0.038U
PCB-179	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.055	0.038U
PCB-18	NC	ng/L	0.0078QBCJ	0.056BCJ	0.016QBCJ	0.02BCJ	6.9BC	0.025CJ
PCB-180	NC	ng/L	0.038U	0.0026QCJ	0.038U	0.0052CJ	0.21C	0.038U
PCB-181	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-182/187	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-183	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.12	0.038U
PCB-184	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-185	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.078C183	0.038U
PCB-186	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-188	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-189	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0051J	0.038U
PCB-19	NC	ng/L	0.038U	0.0063J	0.038U	0.038U	0.41	0.038U
PCB-190	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.02J	0.038U
PCB-191	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0041J	0.038U
PCB-192	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-193	NC	ng/L	0.038U	0.0026QC180J	0.038U	0.0052C180J	0.21C180	0.038U
PCB-194	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.033QJ	0.038U
PCB-195	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.018J	0.038U
PCB-196/203	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.015QJ	0.038U
PCB-197	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-198	NC	ng/L	0.038U	0.038U	0.038U	0.0026QCJ	0.049C	0.038U

NOTES:

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Total PCBs determined by summing the detected PCB congeners.

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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample
PCB-199	NC	ng/L	0.038U	0.038U	0.038U	0.0026QC198J	0.049C198	0.038U
PCB-2	NC	ng/L	0.0024BJ	0.0028QBJ	0.038U	0.0022QBJ	0.0022QBJ	0.0031BJ
PCB-20/21/33	NC	ng/L	0.011QBCJ	0.08BC	0.018BCJ	0.066BC	15BC	0.028BCJ
PCB-200	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0043QJ	0.038U
PCB-201	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.007J	0.038U
PCB-202	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.012J	0.038U
PCB-204	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-205	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-206	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.02QJ	0.038U
PCB-207	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0027QJ	0.038U
PCB-208	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.01J	0.038U
PCB-22	NC	ng/L	0.0042BJ	0.054B	0.0074BJ	0.027BJ	6.4B	0.014BJ
PCB-23	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.022J	0.038U
PCB-24/27	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.13	0.038U
PCB-25	NC	ng/L	0.038U	0.0056BJ	0.0014BJ	0.003BJ	1.1B	0.0017QJ
PCB-26	NC	ng/L	0.0016CJ	0.011QBCJ	0.0028BCJ	0.0068BCJ	2.5BC	0.0044QCJ
PCB-27	NC	ng/L	0.038U	0.0039J	0.038U	0.038U	0.52	0.038U
PCB-29	NC	ng/L	0.0016C26J	0.011QBC26J	0.0028BC26J	0.0068BC26J	2.5BC26	0.0044QC26J
PCB-3	NC	ng/L	0.0022QJ	0.0037QBJ	0.038U	0.0029QBJ	0.0049QBJ	0.0032QBJ
PCB-31	NC	ng/L	0.0094BJ	0.063B	0.014BJ	0.034BJ	13B	0.023BJ
PCB-32	NC	ng/L	0.0024QJ	0.022BJ	0.0051BJ	0.01QBJ	2.7B	0.0067QJ
PCB-33	NC	ng/L	0.0061QBC21J	0.069BC21	0.0094BC21J	0.016BC21J	10BC21	0.020BC21J
PCB-34	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.042	0.038U
PCB-35	NC	ng/L	0.038U	0.0017QJ	0.038U	0.038U	0.26	0.038U
PCB-36	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-37	NC	ng/L	0.0025BJ	0.031BJ	0.0058QBJ	0.019BJ	5.2B	0.0085QJ
PCB-38	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0095QJ	0.038U
PCB-39	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.057	0.038U
PCB-4/10	NC	ng/L	0.0074QBJ	0.013QBJ	0.0085QBJ	0.0073QBJ	0.22B	0.0095QBJ
PCB-40	NC	ng/L	0.0042QCJ	0.052C	0.01QCJ	0.028CJ	10C	0.012QCJ
PCB-42/59	NC	ng/L	0.038U	0.02J	0.003QJ	0.014J	4.3	0.0051J

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Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample
PCB-41/64/71/72	NC	ng/L	0.0042QC40J	0.052C40	0.01QC40J	0.028C40J	10C40	0.012QC40J
PCB-43/49	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.66C	0.038U
PCB-44	NC	ng/L	0.012BCJ	0.068BC	0.017BCJ	0.047BC	14BC	0.025BCJ
PCB-45	NC	ng/L	0.0034CJ	0.017BCJ	0.0043BCJ	0.008BCJ	2.9BC	0.0058QCJ
PCB-46	NC	ng/L	0.038U	0.0061QJ	0.038U	0.038U	1	0.038U
PCB-47	NC	ng/L	0.012BC44J	0.068BC44	0.017BC44J	0.047BC44	14BC44	0.025BC44J
PCB-48/75	NC	ng/L	0.038U	0.013J	0.0023QJ	0.0064QJ	4.3	0.0035QJ
PCB-49	NC	ng/L	0.0042QCJ	0.025QBCJ	0.0078BCJ	0.024BCJ	7.8BC	0.011CJ
PCB-5	NC	ng/L	0.0017QJ	0.0033QJ	0.038U	0.038U	0.028QJ	0.038U
PCB-50	NC	ng/L	0.0023QCJ	0.0086QCJ	0.0036CJ	0.0063CJ	1.8C	0.038U
PCB-51	NC	ng/L	0.0034C45J	0.017BC45J	0.0043BC45J	0.0080BC45J	2.9BC45	0.0058QC45J
PCB-53	NC	ng/L	0.0023QC50J	0.0086QC50J	0.0036C50J	0.0063C50J	1.8C50	0.038U
PCB-54	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.019J	0.038U
PCB-55	NC	ng/L	0.038U	0.0012QJ	0.038U	0.0018QJ	0.73	0.038U
PCB-56/60	NC	ng/L	0.0025QJ	0.019BJ	0.0048QBJ	0.028BJ	7.4B	0.0068QJ
PCB-57	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.093	0.038U
PCB-58	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.027J	0.038U
PCB-6	NC	ng/L	0.004QBJ	0.0096QBJ	0.0042QBJ	0.0033QBJ	0.32B	0.0049QJ
PCB-61/70	NC	ng/L	0.0091BCJ	0.055BC	0.016BCJ	0.068BC	23BC	0.023BCJ
PCB-62	NC	ng/L	0.038U	0.0069C59J	0.0015QC59J	0.0043C59J	1.6C59	0.038U
PCB-63	NC	ng/L	0.038U	0.0012J	0.038U	0.038U	0.55	0.038U
PCB-65	NC	ng/L	0.012BC44J	0.068BC44	0.017BC44J	0.047BC44	14BC44	0.025BC44J
PCB-66	NC	ng/L	0.0041QBJ	0.033BJ	0.011BJ	0.046B	13B	0.012QJ
PCB-67	NC	ng/L	0.038U	0.038U	0.038U	0.0013QJ	0.57	0.038U
PCB-68	NC	ng/L	0.038U	0.038U	0.00099QJ	0.038U	0.033J	0.038U
PCB-69	NC	ng/L	0.0042QC49J	0.025QBC49J	0.0078BC49J	0.024BC49J	7.8BC49	0.011C49J
PCB-7/9	NC	ng/L	0.0015QBJ	0.0047QJ	0.038U	0.038U	0.045Q	0.038U
PCB-70	NC	ng/L	0.0091BC61J	0.055BC61	0.016BC61J	0.068BC61	23BC61	0.023BC61J
PCB-71	NC	ng/L	0.0042QC40J	0.052C40	0.010QC40J	0.028C40J	10C40	0.012QC40J
PCB-73	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.66C43	0.038U
PCB-74	NC	ng/L	0.0091BC61J	0.055BC61	0.016BC61J	0.068BC61	23BC61	0.023BC61J

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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample
PCB-76/66	NC	ng/L	0.0091BC61J	0.055BC61	0.016BC61J	0.068BC61	23BC61	0.023BC61J
PCB-77	NC	ng/L	0.038U	0.038U	0.038U	0.0024QBJ	1.2B	0.038U
PCB-78	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0057QJ	0.038U
PCB-79	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037J	0.038U
PCB-8	NC	ng/L	0.011QBJ	0.031QBJ	0.012QBJ	0.015QBJ	1.7B	0.015QBJ
PCB-80	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.037U	0.038U
PCB-81	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.064	0.038U
PCB-82	NC	ng/L	0.038U	0.002QJ	0.038U	0.0057QJ	1	0.038U
PCB-83	NC	ng/L	0.038U	0.0079QBCJ	0.0022QBCJ	0.023QBCJ	2.4BC	0.0099QCJ
PCB-84/92	NC	ng/L	0.038U	0.0038QJ	0.038U	0.0095J	1.4	0.0052QJ
PCB-85/116	NC	ng/L	0.038U	0.0026QCJ	0.038U	0.0083QCJ	1.1C	0.038U
PCB-86	NC	ng/L	0.0079QBCJ	0.018QBCJ	0.0057QBCJ	0.041BC	3.3BC	0.018QBCJ
PCB-87	NC	ng/L	0.0079QBC86J	0.018QBC86J	0.0057QBC86J	0.041BC86	3.3BC86	0.018QBC86J
PCB-88/91	NC	ng/L	0.038U	0.038U	0.038U	0.0042CJ	0.84C	0.038U
PCB-89	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.19	0.038U
PCB-9	NC	ng/L	0.0022QJ	0.003QJ	0.038U	0.0032QJ	0.081	0.0019QBJ
PCB-90/101	NC	ng/L	0.0083BCJ	0.015BCJ	0.0052BCJ	0.034BCJ	3.2BC	0.018CJ
PCB-92	NC	ng/L	0.038U	0.0021QJ	0.038U	0.005J	0.54	0.038U
PCB-93	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.076C	0.038U
PCB-94	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.046	0.038U
PCB-95/98/102	NC	ng/L	0.0058QBJ	0.012QJ	0.0051QJ	0.026J	2.9	0.015QJ
PCB-96	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.082	0.038U
PCB-97	NC	ng/L	0.0079QBC86J	0.018QBC86J	0.0057QBC86J	0.041BC86	3.3BC86	0.018QBC86J
Total Di-CB	NC	ng/L	0.062EMPC,U	0.14EMPC,U	0.070EMPC,U	0.087EMPC,U	3.9EMPC	0.060EMPC,U
Total Hepta-CB	NC	ng/L	0.038U	0.0026EMPC,J	0.038U	0.013EMPC,J	0.91EMPC	0.038U
Total Hexa-CB	NC	ng/L	0.030EMPC,U	0.054EMPC,U	0.012EMPC,U	0.10EMPC,J	5.9EMPC	0.063EMPC,U
Total Mono-CB	NC	ng/L	0.0046EMPC,U	0.010EMPC,U	0.0031U	0.0088EMPC,U	0.014EMPC,U	0.0091EMPC,U
Total Nona-CB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.032EMPC,J	0.038U
Total Octa-CB	NC	ng/L	0.038U	0.038U	0.038U	0.0034EMPC,J	0.16EMPC	0.038U
Total Penta-CB	NC	ng/L	0.037EMPC,U	0.10EMPC,U	0.030EMPC,U	0.25EMPC	28	0.11EMPC,U
Total Tetra-CB	NC	ng/L	0.058EMPC,U	0.41EMPC	0.11EMPC,U	0.38EMPC	120EMPC	0.14EMPC,U

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Total PCBs determined by summing the detected PCB congeners.
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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample
Total Tri-CB	NC	ng/L	0.052EMPC,U	0.46EMPC	0.087EMPC,U	0.22EMPC,U	72EMPC	0.15EMPC,U

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Total PCBs determined by summing the detected PCB congeners.
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Table 12
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Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample
Total PCBs	90(S)	ng/L	0.642	0.4768	0.72895	0.9718	0.6865	0.3822
109-PeCB	NC	ng/L	0.0092QBC86J	0.012BC86J	0.033QBC86J	0.023QBC86J	0.02QBC86J	0.012QBC86J
10-DiCB	NC	ng/L	0.038U	0.0042QBJ	0.037U	0.0024QBJ	0.038U	0.038U
112-PeCB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
142-HxCB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
143-HxCB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
160-HxCB	NC	ng/L	0.0052QBC129J	0.0043BC129J	0.012C129J	0.013C129J	0.0053C129J	0.0047QBC129J
161-HxCB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
162-HxCB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
164-HxCB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
165-HxCB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.038U	0.037U	0.0017QJ	0.0015QJ	0.038U	0.038U
203-OcCB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
21-TrCB C33	NC	ng/L	0.0067QBCJ	0.0079QBCJ	0.011BCJ	0.012BCJ	0.0051QBCJ	0.0063QBCJ
59-TeCB C62/75	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
64-TeCB	NC	ng/L	0.0057J	0.006J	0.0098QBJ	0.011BJ	0.0094QBJ	0.0034QBJ
72-TeCB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
98-PeCB C102	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB 101	NC	ng/L	0.0056C90J	0.0058QC90J	0.0062QBC90J	0.014BC90J	0.0052BC90J	0.0048BC90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB 115 (BZ)	NC	ng/L	0.0054C110J	0.037U	0.0086BC110J	0.020BC110J	0.0064BC110J	0.0052BC110J
PCB 116 (BZ)	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB 117 (BZ)	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB 118	NC	ng/L	0.0028QBJ	0.0054BJ	0.0049QBJ	0.0087BJ	0.0032BJ	0.0033BJ
PCB 125 (BZ)	NC	ng/L	0.0092QBC86J	0.012BC86J	0.033QBC86J	0.023QBC86J	0.020QBC86J	0.012QBC86J
PCB 13 (BZ)	NC	ng/L	0.057U	0.056U	0.0026QBC12J	0.0056QBC12J	0.0050QBC12J	0.0064QBC12J
PCB 138	NC	ng/L	0.0052QBC129J	0.0043BC129J	0.012C129J	0.013C129J	0.0053C129J	0.0047QBC129J
PCB 153	NC	ng/L	0.0039QCJ	0.004QCJ	0.0074BCJ	0.011BCJ	0.0048BCJ	0.0039QBCJ
PCB 163 (BZ)	NC	ng/L	0.0052QBC129J	0.0043BC129J	0.012C129J	0.013C129J	0.0053C129J	0.0047QBC129J
PCB 209	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB 28	NC	ng/L	0.014BC20J	0.014BC20J	0.019BC20J	0.020QBC20J	0.011BC20J	0.0098BC20J

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Total PCBs determined by summing the detected PCB congeners.

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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample
PCB 30	NC	ng/L	0.0075QC18J	0.021C18J	0.012QC18J	0.037C18J	0.011QC18J	0.0098BC18J
PCB 52	NC	ng/L	0.0092BJ	0.012BJ	0.01BJ	0.022BJ	0.0073QBJ	0.0064BJ
PCB 75 (BZ)	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB 91 (BZ)	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-1	NC	ng/L	0.0031QBJ	0.0067QBJ	0.037U	0.0076QBJ	0.0039QBJ	0.0041QBJ
PCB-100	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-103	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-104	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-105	NC	ng/L	0.0024QJ	0.037U	0.0037QJ	0.0049J	0.0022J	0.038U
PCB-106/118	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-107/109	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-108/112	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-11	NC	ng/L	0.019QBJ	0.02QBJ	0.032QBJ	0.03QBJ	0.025QBJ	0.038QBJ
PCB-110	NC	ng/L	0.0054CJ	0.037U	0.0086BCJ	0.02BCJ	0.0064BCJ	0.0052BCJ
PCB-111/115	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-113	NC	ng/L	0.0056C90J	0.0058QC90J	0.0062QBC90J	0.014BC90J	0.0052BC90J	0.0048BC90J
PCB-114	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-119	NC	ng/L	0.0092QBC86J	0.012BC86J	0.033QBC86J	0.023QBC86J	0.020QBC86J	0.012QBC86J
PCB-12/13	NC	ng/L	0.057U	0.056U	0.0026QBCJ	0.0056QBCJ	0.005QBCJ	0.0064QBCJ
PCB-120	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-121	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-122	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-123	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-124	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-126	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-127	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-128/162	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-129	NC	ng/L	0.0052QBCJ	0.0043BCJ	0.012CJ	0.013CJ	0.0053CJ	0.0047QBCJ
PCB-130	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-131	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-132/161	NC	ng/L	0.038U	0.037U	0.037U	0.0058QJ	0.038U	0.0013QJ

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Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample
PCB-133/142	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-134/143	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-135	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-136	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-137	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-139/149	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-14	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-140	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-141	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-144	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-145	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-146/165	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-147	NC	ng/L	0.0065CJ	0.0037QCJ	0.0091BCJ	0.013BCJ	0.0038QBCJ	0.0042QBCJ
PCB-148	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-149	NC	ng/L	0.0065C147J	0.0037QC147J	0.0091BC147J	0.013BC147J	0.0038QBC147J	0.0042QBC147J
PCB-15	NC	ng/L	0.0052QBJ	0.007QBJ	0.0072QBJ	0.012QBJ	0.005QBJ	0.007QBJ
PCB-150	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-151	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-152	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-153	NC	ng/L	0.0028QC83J	0.037U	0.0062C83J	0.0062QC83J	0.038U	0.038U
PCB-154	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-155	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-156	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-157	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-158/160	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-159	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-16/32	NC	ng/L	0.0033QJ	0.0056QJ	0.01QJ	0.018QJ	0.0056QJ	0.038U
PCB-166	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-167	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-168	NC	ng/L	0.0039QC153J	0.0040QC153J	0.0074BC153J	0.011BC153J	0.0048BC153J	0.0039QBC153J
PCB-169	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample
PCB-17	NC	ng/L	0.0051J	0.037U	0.0096QJ	0.014QJ	0.007J	0.038U
PCB-170	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-171	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-172	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-173	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-174	NC	ng/L	0.038U	0.037U	0.0028QJ	0.038U	0.038U	0.038U
PCB-175	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-176	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-177	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-178	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-179	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-18	NC	ng/L	0.0075QCJ	0.021CJ	0.012QCJ	0.037CJ	0.011QCJ	0.0098BCJ
PCB-180	NC	ng/L	0.0021QCJ	0.037U	0.0013QCJ	0.0034QCJ	0.038U	0.038U
PCB-181	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-182/187	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-183	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-184	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-185	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-186	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-188	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-189	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-19	NC	ng/L	0.038U	0.0072J	0.037U	0.0089J	0.038U	0.038U
PCB-190	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-191	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-192	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-193	NC	ng/L	0.0021QC180J	0.037U	0.0013QC180J	0.0034QC180J	0.038U	0.038U
PCB-194	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-195	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-196/203	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-197	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-198	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0048-05 / SB915-MW-112S / 05/03/2012 / Regular sample	SB915-0049-02 / SB915-MW-113S / 05/04/2012 / Regular sample	SB915-0054-03 / SB915-MW-115BR / 05/25/2012 / Regular sample	SB915-0054-04 / SB915-MW-116S / 05/25/2012 / Regular sample	SB915-0054-02 / SB915-MW-117S / 05/25/2012 / Regular sample	SB915-0051-04 / SB915-MW-118BR / 05/18/2012 / Regular sample
PCB-199	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-2	NC	ng/L	0.004BJ	0.0034BJ	0.0068QBJ	0.0038QBJ	0.0058BJ	0.0052BJ
PCB-20/21/33	NC	ng/L	0.014BCJ	0.014BCJ	0.019BCJ	0.02QBCJ	0.011BCJ	0.0098BCJ
PCB-200	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-201	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-202	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-204	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-205	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-206	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-207	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-208	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-22	NC	ng/L	0.0062QBJ	0.0048QBJ	0.0089BJ	0.0088BJ	0.0045QBJ	0.0042BJ
PCB-23	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-24/27	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-25	NC	ng/L	0.038U	0.037U	0.00095QBJ	0.0014QBJ	0.0012QBJ	0.038U
PCB-26	NC	ng/L	0.002CJ	0.0019QCJ	0.003BCJ	0.003QBCJ	0.0017QBCJ	0.0023BCJ
PCB-27	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-29	NC	ng/L	0.0020C26J	0.0019QC26J	0.0030BC26J	0.0030QBC26J	0.0017QBC26J	0.0023BC26J
PCB-3	NC	ng/L	0.0028QBJ	0.0037QBJ	0.0058BJ	0.0042BJ	0.0057BJ	0.0055BJ
PCB-31	NC	ng/L	0.0099BJ	0.012BJ	0.014QBJ	0.019BJ	0.0092QBJ	0.009BJ
PCB-32	NC	ng/L	0.0031QJ	0.0031QJ	0.0054QJ	0.0095QJ	0.0037J	0.038U
PCB-33	NC	ng/L	0.0067QBC21J	0.0079QBC21J	0.011BC21J	0.012BC21J	0.0051QBC21J	0.0063QBC21J
PCB-34	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-35	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-36	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-37	NC	ng/L	0.0035QJ	0.0043J	0.0045QBJ	0.004QBJ	0.0025QBJ	0.0029BJ
PCB-38	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-39	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-4/10	NC	ng/L	0.0049QBJ	0.023QBJ	0.0079QBJ	0.036QBJ	0.009QBJ	0.0064QBJ
PCB-40	NC	ng/L	0.0037QCJ	0.0047QCJ	0.0052CJ	0.0078CJ	0.0037QCJ	0.0021QBCJ
PCB-42/59	NC	ng/L	0.038U	0.037U	0.0014QJ	0.0033QJ	0.038U	0.0019QJ

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample
PCB-41/64/71/72	NC	ng/L	0.0037QC40J	0.0047QC40J	0.0052C40J	0.0078C40J	0.0037QC40J	0.0021QBC40J
PCB-43/49	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-44	NC	ng/L	0.059BC	0.013QBCJ	0.012BCJ	0.017BCJ	0.06BC	0.0074QBCJ
PCB-45	NC	ng/L	0.03CJ	0.0029QCJ	0.0031QCJ	0.0053CJ	0.026CJ	0.038U
PCB-46	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-47	NC	ng/L	0.059BC44	0.013QBC44J	0.012BC44J	0.017BC44J	0.060BC44	0.0074QBC44J
PCB-48/75	NC	ng/L	0.038U	0.037U	0.037U	0.0034J	0.038U	0.038U
PCB-49	NC	ng/L	0.0061CJ	0.0057CJ	0.0053BCJ	0.0077BCJ	0.0052BCJ	0.004BCJ
PCB-5	NC	ng/L	0.0017QJ	0.037U	0.037U	0.0018QBJ	0.0013QBJ	0.038U
PCB-50	NC	ng/L	0.038U	0.037U	0.037U	0.0032QCJ	0.0027QCJ	0.038U
PCB-51	NC	ng/L	0.030C45J	0.0029QC45J	0.0031QC45J	0.0053C45J	0.026C45J	0.038U
PCB-53	NC	ng/L	0.038U	0.037U	0.037U	0.0032QC50J	0.0027QC50J	0.038U
PCB-54	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-55	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-56/60	NC	ng/L	0.0042QJ	0.037U	0.0035QBJ	0.0041BJ	0.038U	0.038U
PCB-57	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-58	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-6	NC	ng/L	0.0038QJ	0.0053QJ	0.0059QBJ	0.0083QBJ	0.0044QBJ	0.0045QBJ
PCB-61/70	NC	ng/L	0.012BCJ	0.0087BCJ	0.013BCJ	0.015BCJ	0.007BCJ	0.0053QBCJ
PCB-62	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-63	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-65	NC	ng/L	0.059BC44	0.013QBC44J	0.012BC44J	0.017BC44J	0.060BC44	0.0074QBC44J
PCB-66	NC	ng/L	0.0066J	0.0049J	0.0072BJ	0.0083BJ	0.004BJ	0.0026BJ
PCB-67	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-68	NC	ng/L	0.015J	0.037U	0.037U	0.038U	0.0052J	0.038U
PCB-69	NC	ng/L	0.0061C49J	0.0057C49J	0.0053BC49J	0.0077BC49J	0.0052BC49J	0.0040BC49J
PCB-7/9	NC	ng/L	0.003QBJ	0.0029QBJ	0.003QJ	0.038U	0.0033QJ	0.0043QJ
PCB-70	NC	ng/L	0.012BC61J	0.0087BC61J	0.013BC61J	0.015BC61J	0.0070BC61J	0.0053QBC61J
PCB-71	NC	ng/L	0.0037QC40J	0.0047QC40J	0.0052C40J	0.0078C40J	0.0037QC40J	0.0021QBC40J
PCB-73	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-74	NC	ng/L	0.012BC61J	0.0087BC61J	0.013BC61J	0.015BC61J	0.0070BC61J	0.0053QBC61J

NOTES:
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Total PCBs determined by summing the detected PCB congeners.
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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample
PCB-76/66	NC	ng/L	0.012BC61J	0.0087BC61J	0.013BC61J	0.015BC61J	0.0070BC61J	0.0053QBC61J
PCB-77	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-78	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-79	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-8	NC	ng/L	0.0092QBJ	0.016QBJ	0.013QBJ	0.028QBJ	0.01QBJ	0.0096QBJ
PCB-80	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-81	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-82	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-83	NC	ng/L	0.0028QCJ	0.037U	0.0062CJ	0.0062QCJ	0.038U	0.038U
PCB-84/92	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-85/116	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-86	NC	ng/L	0.0092QBCJ	0.012BCJ	0.033QBCJ	0.023QBCJ	0.02QBCJ	0.012QBCJ
PCB-87	NC	ng/L	0.0092QBC86J	0.012BC86J	0.033QBC86J	0.023QBC86J	0.020QBC86J	0.012QBC86J
PCB-88/91	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-89	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-9	NC	ng/L	0.038U	0.0026QBJ	0.0036QBJ	0.0042QBJ	0.002QBJ	0.0039QBJ
PCB-90/101	NC	ng/L	0.0056CJ	0.0058QCJ	0.0062QBCJ	0.014BCJ	0.0052BCJ	0.0048BCJ
PCB-92	NC	ng/L	0.038U	0.037U	0.037U	0.0027QJ	0.038U	0.038U
PCB-93	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-94	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-95/98/102	NC	ng/L	0.0054J	0.037U	0.037U	0.013J	0.0048J	0.038U
PCB-96	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
PCB-97	NC	ng/L	0.0092QBC86J	0.012BC86J	0.033QBC86J	0.023QBC86J	0.020QBC86J	0.012QBC86J
Total Di-CB	NC	ng/L	0.047EMPC,U	0.081EMPC,U	0.075EPMC,U	0.13EPMC,U	0.066EPMC,U	0.080EMPC,U
Total Hepta-CB	NC	ng/L	0.0021EMPC,J	0.037U	0.0073EPMC,U	0.0034EPMC,U	0.038U	0.038U
Total Hexa-CB	NC	ng/L	0.016EMPC,U	0.012EMPC,U	0.029U	0.043EPMC,U	0.014EPMC,U	0.014EMPC,U
Total Mono-CB	NC	ng/L	0.0098EMPC,U	0.014EMPC,U	0.013EPMC,U	0.016EPMC,U	0.015EPMC,U	0.015EMPC,U
Total Nona-CB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
Total Octa-CB	NC	ng/L	0.038U	0.037U	0.037U	0.038U	0.038U	0.038U
Total Penta-CB	NC	ng/L	0.034EMPC,U	0.023EMPC,U	0.063EPMC,U	0.092EPMC,U	0.041EPMC,U	0.025EMPC,U
Total Tetra-CB	NC	ng/L	0.15EMPC	0.057EMPC,U	0.072EPMC,U	0.11EPMC,U	0.13EPMC,U	0.033EMPC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0048-05 / SB915-MW-112S / 05/03/2012 / Regular sample	SB915-0049-02 / SB915-MW-113S / 05/04/2012 / Regular sample	SB915-0054-03 / SB915-MW-115BR / 05/25/2012 / Regular sample	SB915-0054-04 / SB915-MW-116S / 05/25/2012 / Regular sample	SB915-0054-02 / SB915-MW-117S / 05/25/2012 / Regular sample	SB915-0051-04 / SB915-MW-118BR / 05/18/2012 / Regular sample
Total Tri-CB	NC	ng/L	0.061EMPC,U	0.082EMPC,U	0.098EPMC,U	0.16EPMC,U	0.063EPMC,U	0.044EMPC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample
Total PCBs	90(S)	ng/L	2.79238	2.2739	26.5348	5.5477	5.4686	8.52641	1.80813
109-PeCB	NC	ng/L	0.047BC86	0.031QBC86J	0.028QBC86J	0.02BC86J	0.031BC86J	0.046QBC86	0.019QBC86J
10-DiCB	NC	ng/L	0.037U	0.038U	0.083	0.014QJ	0.0063QBJ	0.004QBJ	0.038U
112-PeCB	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
142-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
143-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.0027QC134J	0.038U
160-HxCB	NC	ng/L	0.037C129	0.015QBC129J	0.013QBC129J	0.01QBC129J	0.013QBC129J	0.026BC129J	0.021QC129J
161-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
162-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
164-HxCB	NC	ng/L	0.0023J	0.038U	0.038U	0.039U	0.038U	0.038U	0.0011QJ
165-HxCB	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.021J	0.015J	0.034J	0.039U	0.038B	0.045B	0.007J
203-OcCB	NC	ng/L	0.037U	0.0016QJ	0.038U	0.039U	0.038U	0.0017QJ	0.0083QJ
21-TrCB C33	NC	ng/L	0.039BC	0.064BC	0.770BC	0.097BC	0.180BC	0.230BC	0.030BCJ
59-TeCB C62/75	NC	ng/L	0.0052CJ	0.0063CJ	0.027CJ	0.0073CJ	0.021CJ	0.027CJ	0.0025QCJ
64-TeCB	NC	ng/L	0.033BJ	0.022BJ	0.1B	0.025BJ	0.072B	0.11B	0.018BJ
72-TeCB	NC	ng/L	0.037U	0.038U	0.01QJ	0.039U	0.038U	0.038U	0.038U
98-PeCB C102	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.0046QCJ	0.038U
PCB 101	NC	ng/L	0.035BC90J	0.013QBC90J	0.017BC90J	0.039U	0.019QBC90J	0.056BC90	0.014QBC90J
PCB 102 (BZ)	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.0046QC98J	0.038U
PCB 115 (BZ)	NC	ng/L	0.051BC110	0.020BC110J	0.016QC110J	0.039U	0.023QBC110J	0.067BC110	0.017BC110J
PCB 116 (BZ)	NC	ng/L	0.0098QC85J	0.0034QC85J	0.038U	0.039U	0.0048QBC85J	0.010BC85J	0.038U
PCB 117 (BZ)	NC	ng/L	0.0098QC85J	0.0034QC85J	0.038U	0.039U	0.0048QBC85J	0.010BC85J	0.038U
PCB 118	NC	ng/L	0.038QB	0.011QBJ	0.011BJ	0.039U	0.018QBJ	0.035BJ	0.0099QBJ
PCB 125 (BZ)	NC	ng/L	0.047BC86	0.031QBC86J	0.028QBC86J	0.020BC86J	0.031BC86J	0.046QBC86	0.019QBC86J
PCB 13 (BZ)	NC	ng/L	0.0023QBC12J	0.0033QBC12J	0.26BC12	0.017QBC12J	0.010QBC12J	0.013QBC12J	0.0070QBC12J
PCB 138	NC	ng/L	0.037C129	0.015QBC129J	0.013QBC129J	0.010QBC129J	0.013QBC129J	0.026BC129J	0.021QC129J
PCB 153	NC	ng/L	0.025BCJ	0.0079QBCJ	0.0073QBCJ	0.0036QBCJ	0.0079QBCJ	0.022BCJ	0.021QBCJ
PCB 163 (BZ)	NC	ng/L	0.037C129	0.015QBC129J	0.013QBC129J	0.010QBC129J	0.013QBC129J	0.026BC129J	0.021QC129J
PCB 209	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.0029QJ	0.0065QJ
PCB 28	NC	ng/L	0.054BC20	0.094BC20	0.66BC20	0.077BC20	0.23BC20	0.37BC20	0.047BC20

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample
PCB 30	NC	ng/L	0.035C18J	0.095BC18	2.5C18	0.68C18	0.29BC18	0.39BC18	0.066BC18
PCB 52	NC	ng/L	0.048B	0.051B	0.32	0.11	0.13B	0.24B	0.04B
PCB 75 (BZ)	NC	ng/L	0.0052C59J	0.0063C59J	0.027C59J	0.0073C59J	0.021C59J	0.027C59J	0.0025QC59J
PCB 91 (BZ)	NC	ng/L	0.0059C88J	0.0038QC88J	0.038U	0.039U	0.038U	0.012QBC88J	0.038U
PCB-1	NC	ng/L	0.0039BJ	0.003QBJ	0.76B	0.07SB	0.038U	0.026BJ	0.0039BJ
PCB-100	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-103	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-104	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-105	NC	ng/L	0.022J	0.0089QJ	0.033QJ	0.0043QJ	0.013BJ	0.016BJ	0.0054J
PCB-106/118	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-107/109	NC	ng/L	0.0028QJ	0.038U	0.038U	0.039U	0.038U	0.0021QJ	0.038U
PCB-108/112	NC	ng/L	0.0010QCJ	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-11	NC	ng/L	0.027QBJ	0.03QBJ	0.1QB	0.066QB	0.024QBJ	0.05BJ	0.037QBJ
PCB-110	NC	ng/L	0.051BC	0.02BCJ	0.016QCJ	0.039U	0.023QBCJ	0.067BC	0.017BCJ
PCB-111/115	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-113	NC	ng/L	0.035BC90J	0.013QBC90J	0.017BC90J	0.039U	0.019QBC90J	0.056BC90	0.014QBC90J
PCB-114	NC	ng/L	0.037U	0.038U	0.0055QJ	0.039U	0.038U	0.038U	0.038U
PCB-119	NC	ng/L	0.047BC86	0.031QBC86J	0.028QBC86J	0.020BC86J	0.031BC86J	0.046QBC86	0.019QBC86J
PCB-12/13	NC	ng/L	0.0023QBCJ	0.0033QBCJ	0.26BC	0.017QBCJ	0.01QBCJ	0.013QBCJ	0.007QBCJ
PCB-120	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-121	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-122	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-123	NC	ng/L	0.00098QJ	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-124	NC	ng/L	0.0010QC108J	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-126	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-127	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-128/162	NC	ng/L	0.0053CJ	0.038U	0.038U	0.039U	0.038U	0.003QCJ	0.038U
PCB-129	NC	ng/L	0.037C	0.015QBCJ	0.013QBCJ	0.01QBCJ	0.013QBCJ	0.026BCJ	0.021QCJ
PCB-130	NC	ng/L	0.0034J	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-131	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-132/161	NC	ng/L	0.011J	0.0033QJ	0.038U	0.039U	0.0059QJ	0.013J	0.0063QJ

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0053-05 / SB915-MW-118S / 05/24/2012 / Regular sample	SB915-0067-01 / SB915-MW-36D / 07/27/2012 / Regular sample	SB915-0057-02 / SB915-MW-36I / 05/31/2012 / Regular sample	SB915-0057-01 / SB915-MW-36S / 05/31/2012 / Regular sample	SB915-0041-05 / SB915-MW-42D / 04/24/2012 / Regular sample	SB915-0041-04 / SB915-MW-42I / 04/24/2012 / Regular sample	SB915-0043-06 / SB915-MW-42S / 04/26/2012 / Regular sample
PCB-133/142	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-134/143	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.0027QCJ	0.038U
PCB-135	NC	ng/L	0.0076QCJ	0.038U	0.038U	0.039U	0.038U	0.0093CJ	0.0059QCJ
PCB-136	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.0044QJ	0.038U
PCB-137	NC	ng/L	0.0015QJ	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-139/149	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-14	NC	ng/L	0.037U	0.038U	0.086Q	0.0059QSJ	0.038U	0.038U	0.038U
PCB-140	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-141	NC	ng/L	0.0059QJ	0.038U	0.038U	0.039U	0.038U	0.0051QJ	0.0043J
PCB-144	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-145	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-146/165	NC	ng/L	0.0039QJ	0.038U	0.038U	0.039U	0.038U	0.0041J	0.038U
PCB-147	NC	ng/L	0.024BCJ	0.0069QCJ	0.011BCJ	0.039U	0.0073QBCJ	0.027BCJ	0.017QCJ
PCB-148	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-149	NC	ng/L	0.024BC147J	0.0069QC147J	0.011BC147J	0.039U	0.0073QBC147J	0.027BC147J	0.017QC147J
PCB-15	NC	ng/L	0.015QBJ	0.02QBJ	0.17B	0.018QBJ	0.054QB	0.095B	0.015QBJ
PCB-150	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-151	NC	ng/L	0.0076QC135J	0.038U	0.038U	0.039U	0.038U	0.0093C135J	0.0059QC135J
PCB-152	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-153	NC	ng/L	0.018QC83J	0.0089C83J	0.038U	0.039U	0.013QBC83J	0.033BC83J	0.0066C83J
PCB-154	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-155	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-156	NC	ng/L	0.0027QCJ	0.038U	0.038U	0.039U	0.038U	0.002CJ	0.038U
PCB-157	NC	ng/L	0.0027QC156J	0.038U	0.038U	0.039U	0.038U	0.0020C156J	0.038U
PCB-158/160	NC	ng/L	0.0041QJ	0.038U	0.038U	0.039U	0.038U	0.0017QJ	0.038U
PCB-159	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-16/32	NC	ng/L	0.024J	0.039Q	1.1	0.31	0.17B	0.22B	0.036J
PCB-166	NC	ng/L	0.0053C128J	0.038U	0.038U	0.039U	0.038U	0.0030QC128J	0.038U
PCB-167	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-168	NC	ng/L	0.025BC153J	0.0079QBC153J	0.0073QBC153J	0.0036QBC153J	0.0079QBC153J	0.022BC153J	0.021QBC153J
PCB-169	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0053-05 / SB915-MW-118S / 05/24/2012 / Regular sample	SB915-0067-01 / SB915-MW-36D / 07/27/2012 / Regular sample	SB915-0057-02 / SB915-MW-36I / 05/31/2012 / Regular sample	SB915-0057-01 / SB915-MW-36S / 05/31/2012 / Regular sample	SB915-0041-05 / SB915-MW-42D / 04/24/2012 / Regular sample	SB915-0041-04 / SB915-MW-42I / 04/24/2012 / Regular sample	SB915-0043-06 / SB915-MW-42S / 04/26/2012 / Regular sample
PCB-17	NC	ng/L	0.018J	0.035QJ	0.43	0.11	0.09B	0.17B	0.025J
PCB-170	NC	ng/L	0.0059QJ	0.038U	0.038U	0.039U	0.0036QJ	0.003J	0.038U
PCB-171	NC	ng/L	0.0024QCJ	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-172	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-173	NC	ng/L	0.0024QC171J	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-174	NC	ng/L	0.0048QJ	0.038U	0.038U	0.039U	0.038U	0.0036QJ	0.0035QJ
PCB-175	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-176	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-177	NC	ng/L	0.0031QJ	0.038U	0.038U	0.039U	0.038U	0.0013QJ	0.0022QJ
PCB-178	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.0036J
PCB-179	NC	ng/L	0.0021QJ	0.038U	0.038U	0.039U	0.038U	0.002QJ	0.0017QJ
PCB-18	NC	ng/L	0.035CJ	0.095BC	2.5C	0.68C	0.29BC	0.39BC	0.066BC
PCB-180	NC	ng/L	0.012CJ	0.0038QBCJ	0.038U	0.039U	0.006BCJ	0.0065BCJ	0.0096QCJ
PCB-181	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-182/187	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-183	NC	ng/L	0.0081J	0.038U	0.038U	0.039U	0.038U	0.0045QJ	0.01QJ
PCB-184	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-185	NC	ng/L	0.0042QC183J	0.038U	0.038U	0.039U	0.038U	0.0019QC183J	0.0052QC183J
PCB-186	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-188	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-189	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-19	NC	ng/L	0.0066J	0.012J	0.24	0.083	0.047	0.047	0.011QJ
PCB-190	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-191	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-192	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-193	NC	ng/L	0.012C180J	0.0038QBC180J	0.038U	0.039U	0.0060BC180J	0.0065BC180J	0.0096QC180J
PCB-194	NC	ng/L	0.0023QJ	0.038U	0.038U	0.039U	0.0021QJ	0.0033QJ	0.0062QJ
PCB-195	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-196/203	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-197	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-198	NC	ng/L	0.037U	0.038U	0.0033QCJ	0.039U	0.0063CJ	0.0037QCJ	0.04C

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample
PCB-199	NC	ng/L	0.037U	0.038U	0.0033QC198J	0.039U	0.0063C198J	0.0037QC198J	0.040C198
PCB-2	NC	ng/L	0.0039BJ	0.0025BJ	0.21B	0.022QBJ	0.0036QBJ	0.0059BJ	0.0028BJ
PCB-20/21/33	NC	ng/L	0.054BC	0.094BC	0.66BC	0.077BC	0.23BC	0.37BC	0.047BC
PCB-200	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-201	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-202	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.0013QJ	0.018QJ
PCB-204	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-205	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-206	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.0043QJ	0.0097J	0.047Q
PCB-207	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-208	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.026J
PCB-22	NC	ng/L	0.027BJ	0.046B	0.44	0.067	0.12B	0.17B	0.022BJ
PCB-23	NC	ng/L	0.037U	0.038U	0.069	0.0098QJ	0.038U	0.038U	0.038U
PCB-24/27	NC	ng/L	0.037U	0.0026QJ	0.19	0.032J	0.0048QJ	0.0059J	0.038U
PCB-25	NC	ng/L	0.0036BJ	0.0066QBJ	0.033J	0.0055J	0.018BJ	0.028BJ	0.0038J
PCB-26	NC	ng/L	0.0093BCJ	0.017CJ	0.3C	0.054C	0.037BCJ	0.065BC	0.0081QCJ
PCB-27	NC	ng/L	0.0033J	0.0041QJ	0.057	0.007QJ	0.017QJ	0.029J	0.0048J
PCB-29	NC	ng/L	0.0093BC26J	0.017C26J	0.30C26	0.054C26	0.037BC26J	0.065BC26	0.0081QC26J
PCB-3	NC	ng/L	0.037U	0.038U	0.11B	0.012QBJ	0.038U	0.0083BJ	0.0027QJ
PCB-31	NC	ng/L	0.047B	0.081B	1.5B	0.19B	0.23B	0.35B	0.042B
PCB-32	NC	ng/L	0.014J	0.024QBJ	0.29B	0.055B	0.072QB	0.12B	0.02J
PCB-33	NC	ng/L	0.039BC21	0.064BC21	0.77BC21	0.097BC21	0.18BC21	0.23BC21	0.030BC21J
PCB-34	NC	ng/L	0.037U	0.038U	0.17	0.037QJ	0.038U	0.038U	0.038U
PCB-35	NC	ng/L	0.0021QJ	0.038U	0.024J	0.0049QSJ	0.038U	0.0068QJ	0.038U
PCB-36	NC	ng/L	0.037U	0.038U	0.019J	0.039U	0.038U	0.038U	0.038U
PCB-37	NC	ng/L	0.033BJ	0.03BJ	0.087	0.006QJ	0.066B	0.11B	0.011BJ
PCB-38	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-39	NC	ng/L	0.037U	0.038U	0.028J	0.039U	0.038U	0.038U	0.038U
PCB-4/10	NC	ng/L	0.0084QBJ	0.017QBJ	2.3B	0.56B	0.066QB	0.069QB	0.026QBJ
PCB-40	NC	ng/L	0.042C	0.037CJ	0.14C	0.036CJ	0.11BC	0.18BC	0.021QCJ
PCB-42/59	NC	ng/L	0.016J	0.018J	0.048	0.0091QJ	0.042	0.073	0.01QJ

NOTES:
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Total PCBs determined by summing the detected PCB congeners.
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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample
PCB-41/64/71/72	NC	ng/L	0.042C40	0.037C40J	0.14C40	0.036C40J	0.11BC40	0.18BC40	0.021QC40J
PCB-43/49	NC	ng/L	0.003CJ	0.038U	0.015CJ	0.0068QCJ	0.0083QBCJ	0.011QBCJ	0.0025CJ
PCB-44	NC	ng/L	0.077BC	0.058BC	0.28BC	0.22BC	0.16BC	0.26BC	0.04BC
PCB-45	NC	ng/L	0.024CJ	0.013QCJ	0.1C	0.11C	0.043QBC	0.078BC	0.0083QCJ
PCB-46	NC	ng/L	0.037U	0.0045QJ	0.035J	0.018QJ	0.019J	0.034J	0.0047J
PCB-47	NC	ng/L	0.077BC44	0.058BC44	0.28BC44	0.22BC44	0.16BC44	0.26BC44	0.040BC44
PCB-48/75	NC	ng/L	0.013J	0.016J	0.052	0.014J	0.04	0.064	0.0088J
PCB-49	NC	ng/L	0.028BCJ	0.029BCJ	0.098C	0.023CJ	0.074BC	0.12BC	0.019CJ
PCB-5	NC	ng/L	0.037U	0.038U	0.55B	0.089QB	0.0083QJ	0.0038QJ	0.0019QJ
PCB-50	NC	ng/L	0.0075CJ	0.0089QCJ	0.071C	0.027QCJ	0.034CJ	0.05C	0.0069CJ
PCB-51	NC	ng/L	0.024C45J	0.013QC45J	0.10C45	0.11C45	0.043QBC45	0.078BC45	0.0083QC45J
PCB-53	NC	ng/L	0.0075C50J	0.0089QC50J	0.071C50	0.027QC50J	0.034C50J	0.050C50	0.0069C50J
PCB-54	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.0011J	0.038U
PCB-55	NC	ng/L	0.0033QJ	0.0037QJ	0.0044QJ	0.039U	0.0064QJ	0.0089J	0.038U
PCB-56/60	NC	ng/L	0.043B	0.022J	0.061	0.0072J	0.052QB	0.075B	0.012J
PCB-57	NC	ng/L	0.037U	0.038U	0.0025QJ	0.039U	0.038U	0.038U	0.038U
PCB-58	NC	ng/L	0.037U	0.038U	0.0032QJ	0.039U	0.038U	0.038U	0.038U
PCB-6	NC	ng/L	0.0045QBJ	0.0064QBJ	0.63B	0.13QB	0.018QBJ	0.022QBJ	0.0068QBJ
PCB-61/70	NC	ng/L	0.11BC	0.071BC	0.2BC	0.028BCJ	0.16BC	0.21BC	0.034BCJ
PCB-62	NC	ng/L	0.0052C59J	0.0063C59J	0.027C59J	0.0073C59J	0.021C59J	0.027C59J	0.0025QC59J
PCB-63	NC	ng/L	0.0021QJ	0.0019J	0.0099J	0.039U	0.0031QJ	0.0057J	0.002J
PCB-65	NC	ng/L	0.077BC44	0.058BC44	0.28BC44	0.22BC44	0.16BC44	0.26BC44	0.040BC44
PCB-66	NC	ng/L	0.063B	0.036QJ	0.062B	0.0091BJ	0.087B	0.12B	0.018BJ
PCB-67	NC	ng/L	0.037U	0.0013QJ	0.0051QJ	0.039U	0.038U	0.0049J	0.038U
PCB-68	NC	ng/L	0.0027J	0.038U	0.0029QJ	0.04	0.038U	0.038U	0.038U
PCB-69	NC	ng/L	0.028BC49J	0.029BC49J	0.098C49	0.023C49J	0.074BC49	0.12BC49	0.019C49J
PCB-7/9	NC	ng/L	0.037U	0.038U	0.073QB	0.015QBJ	0.0062QBJ	0.0051QBJ	0.0022QBJ
PCB-70	NC	ng/L	0.11BC61	0.071BC61	0.20BC61	0.028BC61J	0.16BC61	0.21BC61	0.034BC61J
PCB-71	NC	ng/L	0.042C40	0.037C40J	0.14C40	0.036C40J	0.11BC40	0.18BC40	0.021QC40J
PCB-73	NC	ng/L	0.003C43J	0.038U	0.015C43J	0.0068QC43J	0.0083QBC43J	0.011QBC43J	0.0025C43J
PCB-74	NC	ng/L	0.11BC61	0.071BC61	0.20BC61	0.028BC61J	0.16BC61	0.21BC61	0.034BC61J

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0053-05 / SB915-MW-118S / 05/24/2012 / Regular sample	SB915-0067-01 / SB915-MW-36D / 07/27/2012 / Regular sample	SB915-0057-02 / SB915-MW-36I / 05/31/2012 / Regular sample	SB915-0057-01 / SB915-MW-36S / 05/31/2012 / Regular sample	SB915-0041-05 / SB915-MW-42D / 04/24/2012 / Regular sample	SB915-0041-04 / SB915-MW-42I / 04/24/2012 / Regular sample	SB915-0043-06 / SB915-MW-42S / 04/26/2012 / Regular sample
PCB-76/66	NC	ng/L	0.11BC61	0.071BC61	0.20BC61	0.028BC61J	0.16BC61	0.21BC61	0.034BC61J
PCB-77	NC	ng/L	0.0082J	0.0026QJ	0.0037QJ	0.039U	0.006J	0.009J	0.038U
PCB-78	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-79	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-8	NC	ng/L	0.021BJ	0.037QBJ	2.1B	0.15SB	0.092QB	0.083B	0.028QBJ
PCB-80	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-81	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-82	NC	ng/L	0.01J	0.0036J	0.0044J	0.039U	0.038U	0.01J	0.038U
PCB-83	NC	ng/L	0.018QCJ	0.0089CJ	0.038U	0.039U	0.013QBCJ	0.033BCJ	0.0066CJ
PCB-84/92	NC	ng/L	0.013J	0.038U	0.012J	0.039U	0.011J	0.029J	0.0052QJ
PCB-85/116	NC	ng/L	0.0098QCJ	0.0034QCJ	0.038U	0.039U	0.0048QBCJ	0.01BCJ	0.038U
PCB-86	NC	ng/L	0.047BC	0.031QBCJ	0.028QBCJ	0.02BCJ	0.031BCJ	0.046QBC	0.019QBCJ
PCB-87	NC	ng/L	0.047BC86	0.031QBC86J	0.028QBC86J	0.020BC86J	0.031BC86J	0.046QBC86	0.019QBC86J
PCB-88/91	NC	ng/L	0.0059CJ	0.0038QCJ	0.038U	0.039U	0.038U	0.012QBCJ	0.038U
PCB-89	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-9	NC	ng/L	0.0021QBJ	0.0042QJ	1.8	0.22Q	0.01QBJ	0.0075QBJ	0.0034QJ
PCB-90/101	NC	ng/L	0.035BCJ	0.013QBCJ	0.017BCJ	0.039U	0.019QBCJ	0.056BC	0.014QBCJ
PCB-92	NC	ng/L	0.0053J	0.038U	0.038U	0.039U	0.038U	0.0085QJ	0.0026QJ
PCB-93	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-94	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.038U	0.038U
PCB-95/98/102	NC	ng/L	0.029J	0.017QJ	0.031J	0.039U	0.03BJ	0.075B	0.019BJ
PCB-96	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.038U	0.0017QJ	0.038U
PCB-97	NC	ng/L	0.047BC86	0.031QBC86J	0.028QBC86J	0.020BC86J	0.031BC86J	0.046QBC86	0.019QBC86J
Total Di-CB	NC	ng/L	0.080EMPC,U	0.12EPMC,U	8.1EPMC	1.3EPMC,J	0.30EMPC	0.35EMPC	0.13EMPC,U
Total Hepta-CB	NC	ng/L	0.042EMPC,J	0.0038EPMC,U	0.038U	0.039U	0.013EMPC,U	0.023EMPC,J	0.036EMPC,J
Total Hexa-CB	NC	ng/L	0.13EMPC	0.033EPMC,U	0.031EPMC,U	0.014EPMC,U	0.034EMPC,U	0.12EMPC,J	0.076EMPC,J
Total Mono-CB	NC	ng/L	0.0078U	0.0056EPMC,U	1.1	0.10EPMC,J	0.0036EMPC,U	0.040U	0.0094EMPC,U
Total Nona-CB	NC	ng/L	0.037U	0.038U	0.038U	0.039U	0.0043EMPC,J	0.0097J	0.073EMPC
Total Octa-CB	NC	ng/L	0.0023J	0.0016EPMC,U	0.0033EPMC,J	0.039U	0.0084EMPC,J	0.010EMPC,J	0.073EMPC
Total Penta-CB	NC	ng/L	0.29EMPC	0.12EPMC,U	0.16EPMC,J	0.024EPMC,U	0.16EMPC,J	0.41EMPC	0.098EMPC,U
Total Tetra-CB	NC	ng/L	0.55EMPC	0.42EPMC	1.7EPMC	0.69EPMC	1.1EMPC	1.7EMPC	0.25EMPC

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample
Total Tri-CB	NC	ng/L	0.32EMPC,U	0.55EPMC	8.9	1.8EPMC,J	1.6EMPC	2.3EMPC	0.33EMPC

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
Total PCBs	90(S)	ng/L	2.24597	0.6537	4.06428	0.5054	3.35023	1.0246	9.1627
109-PeCB	NC	ng/L	0.03QBC86J	0.013BC86J	0.041QBC86	0.0095BC86J	0.029QBC86J	0.022QBC86J	0.057BC86
10-DiCB	NC	ng/L	0.0023QBJ	0.038U	0.0029QBJ	0.038U	0.038U	0.038U	0.0043QJ
112-PeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
142-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
143-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
160-HxCB	NC	ng/L	0.033C129J	0.0092QBC129J	0.046BC129	0.0059BC129J	0.022BC129J	0.037BC129J	0.015BC129J
161-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
162-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
164-HxCB	NC	ng/L	0.0022QJ	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
165-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.0061QJ	0.004J	0.023J	0.0015QJ	0.027J	0.002QJ	0.094
203-OcCB	NC	ng/L	0.0031J	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
21-TrCB C33	NC	ng/L	0.046BC	0.013BCJ	0.081BC	0.0096BCJ	0.120BC	0.0083BCJ	0.230BC
59-TeCB C62/75	NC	ng/L	0.0046QCJ	0.038U	0.0083CJ	0.038U	0.01CJ	0.038U	0.027CJ
64-TeCB	NC	ng/L	0.024QBJ	0.0048QJ	0.034J	0.006QBJ	0.045B	0.0047QJ	0.12B
72-TeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0013J
98-PeCB C102	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0033QCJ
PCB 101	NC	ng/L	0.020BC90J	0.0059QC90J	0.035QC90J	0.0057QBC90J	0.022BC90J	0.017QC90J	0.045BC90
PCB 102 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0033QC98J
PCB 115 (BZ)	NC	ng/L	0.016QBC110J	0.010C110J	0.082C110	0.0087QBC110J	0.033BC110J	0.026C110J	0.053QBC110
PCB 116 (BZ)	NC	ng/L	0.0030QC85J	0.038U	0.0094QC85J	0.038U	0.0059C85J	0.0033QC85J	0.016C85J
PCB 117 (BZ)	NC	ng/L	0.0030QC85J	0.038U	0.0094QC85J	0.038U	0.0059C85J	0.0033QC85J	0.016C85J
PCB 118	NC	ng/L	0.013BJ	0.0076BJ	0.051B	0.0072BJ	0.022BJ	0.021QBJ	0.048B
PCB 125 (BZ)	NC	ng/L	0.030QBC86J	0.013BC86J	0.041QBC86	0.0095BC86J	0.029QBC86J	0.022QBC86J	0.057BC86
PCB 13 (BZ)	NC	ng/L	0.0057QBC12J	0.0025QBC12J	0.011QBC12J	0.0018QBC12J	0.0044QBC12J	0.0057QBC12J	0.012QBC12J
PCB 138	NC	ng/L	0.033C129J	0.0092QBC129J	0.046BC129	0.0059BC129J	0.022BC129J	0.037BC129J	0.015BC129J
PCB 153	NC	ng/L	0.031BCJ	0.0071QCJ	0.029CJ	0.0039QBCJ	0.009BCJ	0.02CJ	0.0095BCJ
PCB 163 (BZ)	NC	ng/L	0.033C129J	0.0092QBC129J	0.046BC129	0.0059BC129J	0.022BC129J	0.037BC129J	0.015BC129J
PCB 209	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB 28	NC	ng/L	0.058BC20	0.020BC20J	0.13BC20	0.016BC20J	0.12BC20	0.016BC20J	0.52BC20

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
PCB 30	NC	ng/L	0.074C18	0.013QC18J	0.17C18	0.017QBC18J	0.073BC18	0.0085QC18J	0.22BC18
PCB 52	NC	ng/L	0.047B	0.013BJ	0.086B	0.0072QBJ	0.075B	0.017BJ	0.19B
PCB 75 (BZ)	NC	ng/L	0.0046QC59J	0.038U	0.0083C59J	0.038U	0.010C59J	0.038U	0.027C59J
PCB 91 (BZ)	NC	ng/L	0.0035QC88J	0.038U	0.038U	0.038U	0.0036QC88J	0.0025QC88J	0.0086QC88J
PCB-1	NC	ng/L	0.006BJ	0.0034QBJ	0.019BJ	0.0031J	0.0028J	0.0031BJ	0.0024QJ
PCB-100	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-103	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-104	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-105	NC	ng/L	0.0052J	0.0047J	0.026QJ	0.0034QJ	0.014QJ	0.0094J	0.03QJ
PCB-106/118	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-107/109	NC	ng/L	0.00076QJ	0.038U	0.0035QJ	0.038U	0.002QJ	0.038U	0.0041J
PCB-108/112	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0012QCJ	0.038U	0.0024QCJ
PCB-11	NC	ng/L	0.038QBJ	0.022QBJ	0.036BJ	0.018QBJ	0.022QBJ	0.021BJ	0.027BJ
PCB-110	NC	ng/L	0.016QBCJ	0.01CJ	0.082C	0.0087QBCJ	0.033BCJ	0.026CJ	0.053QBC
PCB-111/115	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-113	NC	ng/L	0.020BC90J	0.0059QC90J	0.035QC90J	0.0057QBC90J	0.022BC90J	0.017QC90J	0.045BC90
PCB-114	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0023QJ
PCB-119	NC	ng/L	0.030QBC86J	0.013BC86J	0.041QBC86	0.0095BC86J	0.029QBC86J	0.022QBC86J	0.057BC86
PCB-12/13	NC	ng/L	0.0057QBCJ	0.0025QBCJ	0.011QBCJ	0.0018QBCJ	0.0044QBCJ	0.0057QBCJ	0.012QBCJ
PCB-120	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-121	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-122	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-123	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.00063QJ	0.038U	0.001QJ
PCB-124	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0012QC108J	0.038U	0.0024QC108J
PCB-126	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-127	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-128/162	NC	ng/L	0.0028QCJ	0.038U	0.0092CJ	0.0017QCJ	0.0057CJ	0.0063CJ	0.0017QCJ
PCB-129	NC	ng/L	0.033CJ	0.0092QBCJ	0.046BC	0.0059BCJ	0.022BCJ	0.037BCJ	0.015BCJ
PCB-130	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0013QJ	0.038U	0.037U
PCB-131	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-132/161	NC	ng/L	0.01QJ	0.0026QJ	0.023J	0.0031J	0.005QJ	0.014J	0.0041QJ

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
PCB-133/142	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-134/143	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-135	NC	ng/L	0.017CJ	0.038U	0.0096CJ	0.038U	0.038U	0.0061CJ	0.0045CJ
PCB-136	NC	ng/L	0.0052QJ	0.038U	0.0042QJ	0.038U	0.038U	0.0031QJ	0.037U
PCB-137	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-139/149	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-14	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-140	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-141	NC	ng/L	0.0082QJ	0.038U	0.0094QJ	0.038U	0.0018QJ	0.007J	0.0024J
PCB-144	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-145	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-146/165	NC	ng/L	0.0042QJ	0.038U	0.0045QJ	0.038U	0.0014J	0.0036QJ	0.0012QJ
PCB-147	NC	ng/L	0.04BC	0.0061QCJ	0.036CJ	0.003QBCJ	0.01QBCJ	0.031CJ	0.0097QBCJ
PCB-148	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-149	NC	ng/L	0.040BC147	0.0061QC147J	0.036C147J	0.0030QBC147J	0.010QBC147J	0.031C147J	0.0097QBC147J
PCB-15	NC	ng/L	0.014QBJ	0.0061QBJ	0.046QB	0.0069QBJ	0.029QBJ	0.0056QBJ	0.13B
PCB-150	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-151	NC	ng/L	0.017C135J	0.038U	0.0096C135J	0.038U	0.038U	0.0061C135J	0.0045C135J
PCB-152	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-153	NC	ng/L	0.0074QC83J	0.0051C83J	0.016QC83J	0.0024C83J	0.012C83J	0.0077QC83J	0.037C83J
PCB-154	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-155	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-156	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0052CJ	0.038U	0.0018CJ
PCB-157	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0052C156J	0.038U	0.0018C156J
PCB-158/160	NC	ng/L	0.0024QJ	0.038U	0.0051J	0.038U	0.0019J	0.038U	0.0017QJ
PCB-159	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-16/32	NC	ng/L	0.043	0.006QJ	0.083	0.0083QBJ	0.055B	0.0056QJ	0.13B
PCB-166	NC	ng/L	0.0028QC128J	0.038U	0.0092C128J	0.0017QC128J	0.0057C128J	0.0063C128J	0.0017QC128J
PCB-167	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-168	NC	ng/L	0.031BC153J	0.0071QC153J	0.029C153J	0.0039QBC153J	0.0090BC153J	0.020C153J	0.0095BC153J
PCB-169	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
PCB-17	NC	ng/L	0.029J	0.0047QJ	0.072	0.007QBJ	0.032BJ	0.0049J	0.13B
PCB-170	NC	ng/L	0.0081QJ	0.038U	0.038U	0.038U	0.0031QJ	0.038U	0.002QJ
PCB-171	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-172	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-173	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-174	NC	ng/L	0.013J	0.038U	0.003QJ	0.038U	0.038U	0.0038QJ	0.0026J
PCB-175	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-176	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-177	NC	ng/L	0.006J	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-178	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-179	NC	ng/L	0.0077QJ	0.038U	0.038U	0.038U	0.038U	0.0021QJ	0.037U
PCB-18	NC	ng/L	0.074C	0.013QCJ	0.17C	0.017QBCJ	0.073BC	0.0085QCJ	0.22BC
PCB-180	NC	ng/L	0.021CJ	0.0034CJ	0.005CJ	0.0012CJ	0.004QCJ	0.004QCJ	0.0026QCJ
PCB-181	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-182/187	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-183	NC	ng/L	0.017J	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-184	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-185	NC	ng/L	0.0089C183J	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-186	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-188	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-189	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-19	NC	ng/L	0.0073QJ	0.038U	0.023J	0.0028QJ	0.0068QJ	0.038U	0.026J
PCB-190	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-191	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-192	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-193	NC	ng/L	0.021C180J	0.0034C180J	0.0050C180J	0.0012C180J	0.0040QC180J	0.0040QC180J	0.0026QC180J
PCB-194	NC	ng/L	0.007QJ	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-195	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-196/203	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-197	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-198	NC	ng/L	0.0064QCJ	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-02 / SB915-MW-43S / 05/23/2012 / Regular sample	SB915-0048-01 / SB915-MW-53D / 05/03/2012 / Regular sample	SB915-0048-02 / SB915-MW-53I / 05/03/2012 / Regular sample	SB915-0047-03 / SB915-MW-59S / 05/02/2012 / Regular sample	SB915-0047-04 / SB915-MW-60S / 05/02/2012 / Regular sample	SB915-0047-02 / SB915-MW-70D / 05/02/2012 / Regular sample	SB915-0047-01 / SB915-MW-70S / 05/02/2012 / Regular sample
PCB-199	NC	ng/L	0.0064QC198J	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-2	NC	ng/L	0.0093BJ	0.0052QBJ	0.0093QBJ	0.002J	0.0022QJ	0.0048BJ	0.0026QJ
PCB-20/21/33	NC	ng/L	0.058BC	0.02BCJ	0.13BC	0.016BCJ	0.12BC	0.016BCJ	0.52BC
PCB-200	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-201	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-202	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-204	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-205	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-206	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-207	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-208	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-22	NC	ng/L	0.029BJ	0.011BJ	0.056B	0.0053QBJ	0.079B	0.0049QBJ	0.21B
PCB-23	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-24/27	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0011QJ	0.038U	0.0049QJ
PCB-25	NC	ng/L	0.0058BJ	0.0014QJ	0.0095J	0.038U	0.0091J	0.038U	0.03J
PCB-26	NC	ng/L	0.013BCJ	0.0033CJ	0.021CJ	0.0031BCJ	0.021BCJ	0.0021QCJ	0.066BC
PCB-27	NC	ng/L	0.0059QJ	0.038U	0.011J	0.038U	0.0055QJ	0.038U	0.02J
PCB-29	NC	ng/L	0.013BC26J	0.0033C26J	0.021C26J	0.0031BC26J	0.021BC26J	0.0021QC26J	0.066BC26
PCB-3	NC	ng/L	0.0077BJ	0.0055BJ	0.014BJ	0.038U	0.0028QBJ	0.0049QBJ	0.0032QBJ
PCB-31	NC	ng/L	0.06B	0.019QBJ	0.12B	0.016BJ	0.099B	0.012BJ	0.38B
PCB-32	NC	ng/L	0.025J	0.0048QJ	0.049	0.0067J	0.03J	0.0036QJ	0.096
PCB-33	NC	ng/L	0.046BC21	0.013BC21J	0.081BC21	0.0096BC21J	0.12BC21	0.0083BC21J	0.23BC21
PCB-34	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0011QJ
PCB-35	NC	ng/L	0.002QJ	0.038U	0.038U	0.038U	0.0027QJ	0.038U	0.0097J
PCB-36	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-37	NC	ng/L	0.012QBJ	0.0065J	0.033J	0.0044BJ	0.065B	0.0031QJ	0.22B
PCB-38	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-39	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0016J
PCB-4/10	NC	ng/L	0.012BJ	0.0077QBJ	0.04QBJ	0.005QBJ	0.012QBJ	0.0049QBJ	0.034QBJ
PCB-40	NC	ng/L	0.032CJ	0.008QCJ	0.049C	0.0048QBCJ	0.087BC	0.0067QCJ	0.18BC
PCB-42/59	NC	ng/L	0.014J	0.0027QJ	0.022J	0.0025QJ	0.033J	0.038U	0.079

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
PCB-41/64/71/72	NC	ng/L	0.032C40J	0.008QC40J	0.049C40	0.0048QBC40J	0.087BC40	0.0067QC40J	0.18BC40
PCB-43/49	NC	ng/L	0.0024CJ	0.038U	0.0053CJ	0.038U	0.038U	0.038U	0.012CJ
PCB-44	NC	ng/L	0.05BC	0.015BCJ	0.11BC	0.0087QBCJ	0.11BC	0.019QBCJ	0.23BC
PCB-45	NC	ng/L	0.012CJ	0.038U	0.03CJ	0.0027CJ	0.023CJ	0.038U	0.06C
PCB-46	NC	ng/L	0.004QJ	0.038U	0.0084J	0.038U	0.01QJ	0.038U	0.022QJ
PCB-47	NC	ng/L	0.050BC44	0.015BC44J	0.11BC44	0.0087QBC44J	0.11BC44	0.019QBC44J	0.23BC44
PCB-48/75	NC	ng/L	0.011J	0.0025QJ	0.019J	0.0017J	0.023J	0.0031J	0.066
PCB-49	NC	ng/L	0.025BCJ	0.0061CJ	0.036CJ	0.0039BCJ	0.044BC	0.0055QCJ	0.13BC
PCB-5	NC	ng/L	0.0023QBJ	0.038U	0.0017QJ	0.0032QJ	0.003QJ	0.0017QJ	0.0025QJ
PCB-50	NC	ng/L	0.0075QCJ	0.0028CJ	0.015CJ	0.0019CJ	0.013CJ	0.038U	0.039C
PCB-51	NC	ng/L	0.012C45J	0.038U	0.030C45J	0.0027C45J	0.023C45J	0.038U	0.060C45
PCB-53	NC	ng/L	0.0075QC50J	0.0028C50J	0.015C50J	0.0019C50J	0.013C50J	0.038U	0.039C50
PCB-54	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-55	NC	ng/L	0.038U	0.038U	0.0058QJ	0.038U	0.0021QJ	0.038U	0.014QJ
PCB-56/60	NC	ng/L	0.014BJ	0.0063J	0.042	0.004QJ	0.049	0.0048J	0.14
PCB-57	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0014QJ
PCB-58	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-6	NC	ng/L	0.0069QBJ	0.0042QJ	0.015QJ	0.0028QBJ	0.0094QBJ	0.0047QJ	0.021QBJ
PCB-61/70	NC	ng/L	0.044BC	0.02BCJ	0.1BC	0.014BCJ	0.11BC	0.021BCJ	0.41BC
PCB-62	NC	ng/L	0.0046QC59J	0.038U	0.0083C59J	0.038U	0.010C59J	0.038U	0.027C59J
PCB-63	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0026QJ	0.038U	0.011J
PCB-65	NC	ng/L	0.050BC44	0.015BC44J	0.11BC44	0.0087QBC44J	0.11BC44	0.019QBC44J	0.23BC44
PCB-66	NC	ng/L	0.022BJ	0.012J	0.052	0.0071BJ	0.065B	0.0071J	0.25B
PCB-67	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0029J	0.038U	0.0095J
PCB-68	NC	ng/L	0.038U	0.038U	0.0063QJ	0.038U	0.038U	0.038U	0.037U
PCB-69	NC	ng/L	0.025BC49J	0.0061C49J	0.036C49J	0.0039BC49J	0.044BC49	0.0055QC49J	0.13BC49
PCB-7/9	NC	ng/L	0.038U	0.038U	0.0053QBJ	0.0036QJ	0.0033QJ	0.0029QBJ	0.0047QJ
PCB-70	NC	ng/L	0.044BC61	0.020BC61J	0.10BC61	0.014BC61J	0.11BC61	0.021BC61J	0.41BC61
PCB-71	NC	ng/L	0.032C40J	0.0080QC40J	0.049C40	0.0048QBC40J	0.087BC40	0.0067QC40J	0.18BC40
PCB-73	NC	ng/L	0.0024C43J	0.038U	0.0053C43J	0.038U	0.038U	0.038U	0.012C43J
PCB-74	NC	ng/L	0.044BC61	0.020BC61J	0.10BC61	0.014BC61J	0.11BC61	0.021BC61J	0.41BC61

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
PCB-76/66	NC	ng/L	0.044BC61	0.020BC61J	0.10BC61	0.014BC61J	0.11BC61	0.021BC61J	0.41BC61
PCB-77	NC	ng/L	0.0013QJ	0.038U	0.007J	0.038U	0.0069QJ	0.038U	0.029J
PCB-78	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-79	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-8	NC	ng/L	0.029QBJ	0.013QBJ	0.069QB	0.011QBJ	0.028QBJ	0.0085QBJ	0.068QB
PCB-80	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-81	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0012QJ
PCB-82	NC	ng/L	0.038U	0.038U	0.013J	0.038U	0.0072J	0.0039QJ	0.018J
PCB-83	NC	ng/L	0.0074QCJ	0.0051CJ	0.016QCJ	0.0024CJ	0.012CJ	0.0077QCJ	0.037CJ
PCB-84/92	NC	ng/L	0.0094J	0.038U	0.015J	0.038U	0.009QJ	0.0055QJ	0.019QJ
PCB-85/116	NC	ng/L	0.003QCJ	0.038U	0.0094QCJ	0.038U	0.0059CJ	0.0033QCJ	0.016CJ
PCB-86	NC	ng/L	0.03QBCJ	0.013BCJ	0.041QBC	0.0095BCJ	0.029QBCJ	0.022QBCJ	0.057BC
PCB-87	NC	ng/L	0.030QBC86J	0.013BC86J	0.041QBC86	0.0095BC86J	0.029QBC86J	0.022QBC86J	0.057BC86
PCB-88/91	NC	ng/L	0.0035QCJ	0.038U	0.038U	0.038U	0.0036QCJ	0.0025QCJ	0.0086QCJ
PCB-89	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0022QJ
PCB-9	NC	ng/L	0.0044QBJ	0.038U	0.0056QBJ	0.003QBJ	0.0034QBJ	0.038U	0.0066QBJ
PCB-90/101	NC	ng/L	0.02BCJ	0.0059QCJ	0.035QCJ	0.0057QBCJ	0.022BCJ	0.017QCJ	0.045BC
PCB-92	NC	ng/L	0.038U	0.038U	0.0054QJ	0.038U	0.0034J	0.0029J	0.0059QJ
PCB-93	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-94	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-95/98/102	NC	ng/L	0.026J	0.0067QJ	0.038J	0.0046QJ	0.022J	0.012QJ	0.042
PCB-96	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
PCB-97	NC	ng/L	0.030QBC86J	0.013BC86J	0.041QBC86	0.0095BC86J	0.029QBC86J	0.022QBC86J	0.057BC86
Total Di-CB	NC	ng/L	0.12EMPC,U	0.055EMPC,U	0.23EMPC,U	0.056EMPC,U	0.11EMPC,U	0.055EMPC,U	0.31EMPC,U
Total Hepta-CB	NC	ng/L	0.083EMPC,J	0.0034J	0.011EMPC,J	0.0012J	0.0072EMPC,J	0.013EMPC,J	0.0098EMPC,J
Total Hexa-CB	NC	ng/L	0.16EMPC,U	0.025EMPC,J	0.18EMPC	0.018EMPC,U	0.063EMPC,U	0.13EMPC,J	0.051EMPC,U
Total Mono-CB	NC	ng/L	0.023U	0.014EMPC,U	0.042EMPC,U	0.0050U	0.0078EMPC,U	0.013EMPC,U	0.0082EMPC,U
Total Nona-CB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
Total Octa-CB	NC	ng/L	0.016EMPC,J	0.038U	0.038U	0.038U	0.038U	0.038U	0.037U
Total Penta-CB	NC	ng/L	0.13EMPC,U	0.053EMPC,U	0.34EMPC	0.041EMPC,U	0.19EMPC,J	0.13EMPC,J	0.39EMPC
Total Tetra-CB	NC	ng/L	0.32EMPC	0.097EMPC,U	0.67EMPC	0.066EMPC,U	0.73EMPC	0.091EMPC,U	2.1EMPC

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample ng/L	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample
Total Tri-CB	NC		0.41EMPC	0.10EMPC,U	0.86	0.096EMPC,U	0.72EMPC	0.069EMPC,U	2.3EMPC,U

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-03 / SB915-MW-85D / 05/23/2012 / Regular sample	SB915-0058-01 / SB915-PZ-07D / 06/01/2012 / Regular sample	SB915-0058-02 / SB915-PZ-07I / 06/01/2012 / Regular sample	SB915-0058-03 / SB915-PZ-07S / 06/01/2012 / Regular sample	SB915-0053-02 / SB915-WB-01L / 05/24/2012 / Regular sample	SB915-0057-03 / SB915-WB-03L / 05/31/2012 / Regular sample	SB915-0053-01 / SB915-WB-05M / 05/24/2012 / Regular sample
Total PCBs	90(S)	ng/L	0.6612	1.99278	0.577	11.1323	0.4316	1.6851	0.7026
109-PeCB	NC	ng/L	0.022QBC86J	0.027BC86J	0.019QBC86J	0.028QBC86J	0.012QBC86J	0.021QBC86J	0.021QBC86J
10-DiCB	NC	ng/L	0.037U	0.037U	0.0024QJ	0.11	0.038U	0.038U	0.037U
112-PeCB	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
142-HxCB	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
143-HxCB	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
160-HxCB	NC	ng/L	0.0084C129J	0.024QBC129J	0.0083QBC129J	0.12BC129	0.0082QC129J	0.011BC129J	0.0093QC129J
161-HxCB	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
162-HxCB	NC	ng/L	0.037U	0.037U	0.037U	0.0046QJ	0.038U	0.038U	0.037U
164-HxCB	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
165-HxCB	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.037U	0.014J	0.037U	0.016J	0.0013J	0.038U	0.0024J
203-OcCB	NC	ng/L	0.037U	0.0086J	0.037U	0.041	0.038U	0.038U	0.037U
21-TrCB C33	NC	ng/L	0.011BCJ	0.030QBCJ	0.0071BCJ	0.027BCJ	0.0056BCJ	0.0052BCJ	0.011BCJ
59-TeCB C62/75	NC	ng/L	0.0015CJ	0.0047QCJ	0.037U	0.0039QCJ	0.038U	0.0031QCJ	0.037U
64-TeCB	NC	ng/L	0.0098QBJ	0.025BJ	0.01QBJ	0.018QBJ	0.0074QBJ	0.0073QBJ	0.011QBJ
72-TeCB	NC	ng/L	0.037U	0.037U	0.037U	0.0014QJ	0.038U	0.038U	0.037U
98-PeCB C102	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB 101	NC	ng/L	0.0097QBC90J	0.019QBC90J	0.0057QBC90J	0.015BC90J	0.0056BC90J	0.011QBC90J	0.0096BC90J
PCB 102 (BZ)	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB 115 (BZ)	NC	ng/L	0.015BC110J	0.028C110J	0.0063C110J	0.017C110J	0.0079BC110J	0.018C110J	0.013BC110J
PCB 116 (BZ)	NC	ng/L	0.037U	0.0044QC85J	0.037U	0.038U	0.038U	0.038U	0.037U
PCB 117 (BZ)	NC	ng/L	0.037U	0.0044QC85J	0.037U	0.038U	0.038U	0.038U	0.037U
PCB 118	NC	ng/L	0.0066BJ	0.02BJ	0.0035BJ	0.067B	0.0044QBJ	0.0069QBJ	0.0065BJ
PCB 125 (BZ)	NC	ng/L	0.022QBC86J	0.027BC86J	0.019QBC86J	0.028QBC86J	0.012QBC86J	0.021QBC86J	0.021QBC86J
PCB 13 (BZ)	NC	ng/L	0.0034QBC12J	0.0059QC12J	0.0074QC12J	0.016QC12J	0.0026QBC12J	0.0064QBC12J	0.0056QBC12J
PCB 138	NC	ng/L	0.0084C129J	0.024QBC129J	0.0083QBC129J	0.12BC129	0.0082QC129J	0.011BC129J	0.0093QC129J
PCB 153	NC	ng/L	0.0072BCJ	0.016QBCJ	0.0048QBCJ	0.15BC	0.0047QBCJ	0.0079QBCJ	0.008BCJ
PCB 163 (BZ)	NC	ng/L	0.0084C129J	0.024QBC129J	0.0083QBC129J	0.12BC129	0.0082QC129J	0.011BC129J	0.0093QC129J
PCB 209	NC	ng/L	0.037U	0.014J	0.037U	0.014J	0.038U	0.038U	0.037U
PCB 28	NC	ng/L	0.019BC20J	0.053BC20	0.011QBC20J	0.063BC20	0.011BC20J	0.0057QBC20J	0.018BC20J

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample ng/L	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample ng/L	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample ng/L	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample ng/L	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample ng/L	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample ng/L	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample ng/L
PCB 30	NC		0.015C18J	0.039BC18J	0.022BC18J	0.20BC18	0.0087C18J	0.0058QC18J	0.014C18J
PCB 52	NC		0.011BJ	0.039	0.012QJ	0.052	0.0065QBJ	0.017J	0.01BJ
PCB 75 (BZ)	NC		0.0015C59J	0.0047QC59J	0.037U	0.0039QC59J	0.038U	0.0031QC59J	0.037U
PCB 91 (BZ)	NC		0.037U	0.0035C88J	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-1	NC		0.037U	0.007QBJ	0.0063BJ	3.5B	0.0033BJ	0.0032QBJ	0.0047BJ
PCB-100	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-103	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-104	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-105	NC		0.0033J	0.016QJ	0.037U	0.061Q	0.0024QJ	0.0041J	0.0029QJ
PCB-106/118	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-107/109	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-108/112	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-11	NC		0.032QBJ	0.035QBJ	0.026QBJ	0.038QBJ	0.023QBJ	0.024QBJ	0.025QBJ
PCB-110	NC		0.015BCJ	0.028CJ	0.0063CJ	0.017CJ	0.0079BCJ	0.018CJ	0.013BCJ
PCB-111/115	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-113	NC		0.0097QBC90J	0.019QBC90J	0.0057QBC90J	0.015BC90J	0.0056BC90J	0.011QBC90J	0.0096BC90J
PCB-114	NC		0.037U	0.037U	0.037U	0.0059QJ	0.038U	0.038U	0.037U
PCB-119	NC		0.022QBC86J	0.027BC86J	0.019QBC86J	0.028QBC86J	0.012QBC86J	0.021QBC86J	0.021QBC86J
PCB-12/13	NC		0.0034QBCJ	0.0059QCJ	0.0074QCJ	0.016QCJ	0.0026QBCJ	0.0064QBCJ	0.0056QBCJ
PCB-120	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-121	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-122	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-123	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-124	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-126	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-127	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-128/162	NC		0.0014CJ	0.003QCJ	0.037U	0.012CJ	0.0016CJ	0.038U	0.0021CJ
PCB-129	NC		0.0084CJ	0.024QBCJ	0.0083QBCJ	0.12BC	0.0082QCJ	0.011BCJ	0.0093QCJ
PCB-130	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-131	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-132/161	NC		0.0031QJ	0.0095J	0.037U	0.0044J	0.0021QJ	0.0066QJ	0.004QJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample ng/L	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample
PCB-133/142	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-134/143	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-135	NC	ng/L	0.037U	0.0057QCJ	0.037U	0.0043QCJ	0.038U	0.038U	0.0036CJ
PCB-136	NC	ng/L	0.037U	0.037U	0.037U	0.0014QJ	0.038U	0.038U	0.0021QJ
PCB-137	NC	ng/L	0.037U	0.037U	0.037U	0.006J	0.038U	0.038U	0.037U
PCB-139/149	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-14	NC	ng/L	0.037U	0.037U	0.037U	0.011QJ	0.038U	0.038U	0.037U
PCB-140	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-141	NC	ng/L	0.037U	0.0058J	0.037U	0.002QJ	0.038U	0.038U	0.0019QJ
PCB-144	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-145	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-146/165	NC	ng/L	0.037U	0.0021QJ	0.037U	0.015J	0.038U	0.038U	0.037U
PCB-147	NC	ng/L	0.0076BCJ	0.016CJ	0.0049QCJ	0.0076QCJ	0.0046QBCJ	0.0084QBCJ	0.0068QBCJ
PCB-148	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-149	NC	ng/L	0.0076BC147J	0.016C147J	0.0049QC147J	0.0076QC147J	0.0046QBC147J	0.0084QBC147J	0.0068QBC147J
PCB-15	NC	ng/L	0.006QBJ	0.015QJ	0.0058QJ	0.0088QJ	0.0048QBJ	0.0053QBJ	0.0069QBJ
PCB-150	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-151	NC	ng/L	0.037U	0.0057QC135J	0.037U	0.0043QC135J	0.038U	0.038U	0.0036C135J
PCB-152	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-153	NC	ng/L	0.0051QC83J	0.01QC83J	0.037U	0.043C83	0.0048C83J	0.0058QC83J	0.037U
PCB-154	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-155	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-156	NC	ng/L	0.037U	0.0019SCJ	0.037U	0.015QCJ	0.038U	0.038U	0.037U
PCB-157	NC	ng/L	0.037U	0.0019SC156J	0.037U	0.015QC156J	0.038U	0.038U	0.037U
PCB-158/160	NC	ng/L	0.037U	0.0017QJ	0.037U	0.0052QJ	0.038U	0.002QJ	0.037U
PCB-159	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-16/32	NC	ng/L	0.0065QJ	0.02J	0.011J	0.073	0.0031QJ	0.038U	0.0076QJ
PCB-166	NC	ng/L	0.0014C128J	0.0030QC128J	0.037U	0.012C128J	0.0016C128J	0.038U	0.0021C128J
PCB-167	NC	ng/L	0.037U	0.037U	0.037U	0.0053QJ	0.038U	0.038U	0.037U
PCB-168	NC	ng/L	0.0072BC153J	0.016QBC153J	0.0048QBC153J	0.15BC153	0.0047QBC153J	0.0079QBC153J	0.0080BC153J
PCB-169	NC	ng/L	0.037U	0.037U	0.037U	0.0022QSJ	0.038U	0.038U	0.037U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample ng/L	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample ng/L	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample ng/L	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample ng/L	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample ng/L	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample ng/L	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample ng/L
PCB-17	NC		0.0078J	0.012QJ	0.0069QJ	0.046	0.0029QJ	0.0047QJ	0.0069QJ
PCB-170	NC		0.037U	0.0051J	0.037U	0.028J	0.0021QJ	0.038U	0.037U
PCB-171	NC		0.037U	0.037U	0.037U	0.0032QCJ	0.038U	0.038U	0.037U
PCB-172	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-173	NC		0.037U	0.037U	0.037U	0.0032QC171J	0.038U	0.038U	0.037U
PCB-174	NC		0.037U	0.0042QJ	0.037U	0.0044QJ	0.038U	0.038U	0.0034QJ
PCB-175	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-176	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-177	NC		0.037U	0.037U	0.037U	0.0043J	0.038U	0.038U	0.037U
PCB-178	NC		0.037U	0.037U	0.037U	0.0031QJ	0.038U	0.038U	0.037U
PCB-179	NC		0.037U	0.002J	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-18	NC		0.015CJ	0.039BCJ	0.022BCJ	0.2BC	0.0087CJ	0.0058QCJ	0.014CJ
PCB-180	NC		0.0015QCJ	0.011CJ	0.037U	0.078C	0.038U	0.0021QCJ	0.0051CJ
PCB-181	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-182/187	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-183	NC		0.037U	0.037U	0.037U	0.035QJ	0.038U	0.038U	0.037U
PCB-184	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-185	NC		0.037U	0.037U	0.037U	0.019C183J	0.038U	0.038U	0.037U
PCB-186	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-188	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-189	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-19	NC		0.037U	0.0037QJ	0.037U	0.03QJ	0.038U	0.038U	0.037U
PCB-190	NC		0.037U	0.037U	0.037U	0.0046QSJ	0.038U	0.038U	0.037U
PCB-191	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-192	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-193	NC		0.0015QC180J	0.011C180J	0.037U	0.078C180	0.038U	0.0021QC180J	0.0051C180J
PCB-194	NC		0.037U	0.0056J	0.037U	0.027J	0.038U	0.038U	0.037U
PCB-195	NC		0.037U	0.037U	0.037U	0.0052J	0.038U	0.038U	0.037U
PCB-196/203	NC		0.037U	0.037U	0.037U	0.0079J	0.038U	0.038U	0.037U
PCB-197	NC		0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-198	NC		0.037U	0.015QCJ	0.037U	0.043SC	0.038U	0.038U	0.0027QCJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-03 / SB915-MW-85D / 05/23/2012 / Regular sample	SB915-0058-01 / SB915-PZ-07D / 06/01/2012 / Regular sample	SB915-0058-02 / SB915-PZ-07I / 06/01/2012 / Regular sample	SB915-0058-03 / SB915-PZ-07S / 06/01/2012 / Regular sample	SB915-0053-02 / SB915-WB-01L / 05/24/2012 / Regular sample	SB915-0057-03 / SB915-WB-03L / 05/31/2012 / Regular sample	SB915-0053-01 / SB915-WB-05M / 05/24/2012 / Regular sample
PCB-199	NC	ng/L	0.037U	0.015QC198J	0.037U	0.043SC198	0.038U	0.038U	0.0027QC198J
PCB-2	NC	ng/L	0.0043QBJ	0.0056BJ	0.0068QBJ	0.14B	0.0039BJ	0.0043BJ	0.0047BJ
PCB-20/21/33	NC	ng/L	0.019BCJ	0.053BC	0.011QBCJ	0.063BC	0.011BCJ	0.0057QBCJ	0.018BCJ
PCB-200	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-201	NC	ng/L	0.037U	0.037U	0.037U	0.0028QJ	0.038U	0.038U	0.037U
PCB-202	NC	ng/L	0.037U	0.0082J	0.037U	0.017J	0.038U	0.038U	0.037U
PCB-204	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-205	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-206	NC	ng/L	0.037U	0.041	0.037U	0.05	0.038U	0.038U	0.037U
PCB-207	NC	ng/L	0.037U	0.037U	0.037U	0.0022QJ	0.038U	0.038U	0.037U
PCB-208	NC	ng/L	0.037U	0.016J	0.037U	0.013J	0.038U	0.038U	0.037U
PCB-22	NC	ng/L	0.0076BJ	0.028BJ	0.0047QBJ	0.019BJ	0.0047BJ	0.0025QJ	0.0076BJ
PCB-23	NC	ng/L	0.037U	0.037U	0.037U	0.0037QJ	0.038U	0.038U	0.037U
PCB-24/27	NC	ng/L	0.037U	0.037U	0.037U	0.018QJ	0.038U	0.038U	0.037U
PCB-25	NC	ng/L	0.0014BJ	0.0041J	0.037U	0.003QJ	0.038U	0.038U	0.0018BJ
PCB-26	NC	ng/L	0.0036BCJ	0.0075QCJ	0.0027QCJ	0.012CJ	0.0017QBCJ	0.038U	0.0041BCJ
PCB-27	NC	ng/L	0.037U	0.0029QJ	0.037U	0.0043QJ	0.038U	0.038U	0.037U
PCB-29	NC	ng/L	0.0036BC26J	0.0075QC26J	0.0027QC26J	0.012C26J	0.0017QBC26J	0.038U	0.0041BC26J
PCB-3	NC	ng/L	0.0025QBJ	0.0045BJ	0.0064BJ	0.056B	0.0034QBJ	0.0042BJ	0.0045QBJ
PCB-31	NC	ng/L	0.016BJ	0.046B	0.011QBJ	0.068B	0.0095BJ	0.0059QBJ	0.015BJ
PCB-32	NC	ng/L	0.0058J	0.011QJ	0.0041QJ	0.023J	0.0032J	0.038U	0.006J
PCB-33	NC	ng/L	0.011BC21J	0.030QBC21J	0.0071BC21J	0.027BC21J	0.0056BC21J	0.0052BC21J	0.011BC21J
PCB-34	NC	ng/L	0.037U	0.037U	0.037U	0.0083J	0.038U	0.038U	0.037U
PCB-35	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-36	NC	ng/L	0.037U	0.037U	0.037U	0.0011QJ	0.038U	0.038U	0.037U
PCB-37	NC	ng/L	0.0042BJ	0.026J	0.0027QJ	0.0032QJ	0.0031BJ	0.0025J	0.0057BJ
PCB-38	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-39	NC	ng/L	0.037U	0.037U	0.037U	0.0011QJ	0.038U	0.038U	0.037U
PCB-4/10	NC	ng/L	0.0048QBJ	0.025QJ	0.022QJ	2.3	0.0044QBJ	0.0057QBJ	0.0062QBJ
PCB-40	NC	ng/L	0.0041QCJ	0.026CJ	0.0048CJ	0.017QCJ	0.0041QCJ	0.038U	0.0049QCJ
PCB-42/59	NC	ng/L	0.0025J	0.011J	0.003QJ	0.0086J	0.038U	0.038U	0.0028QJ

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample
PCB-41/64/71/72	NC	ng/L	0.0041QC40J	0.026C40J	0.0048C40J	0.017QC40J	0.0041QC40J	0.038U	0.0049QC40J
PCB-43/49	NC	ng/L	0.037U	0.0018QCJ	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-44	NC	ng/L	0.012BCJ	0.035CJ	0.012CJ	0.077C	0.0083QBCJ	0.33BC	0.015BCJ
PCB-45	NC	ng/L	0.037U	0.0074QCJ	0.037U	0.032CJ	0.038U	0.062C	0.0029QCJ
PCB-46	NC	ng/L	0.037U	0.0032QJ	0.037U	0.0051J	0.038U	0.038U	0.037U
PCB-47	NC	ng/L	0.012BC44J	0.035C44J	0.012C44J	0.077C44	0.0083QBC44J	0.33BC44	0.015BC44J
PCB-48/75	NC	ng/L	0.0019QJ	0.0095J	0.037U	0.0078J	0.0018QJ	0.038U	0.037U
PCB-49	NC	ng/L	0.0053BCJ	0.019BCJ	0.0044QBCJ	0.026BCJ	0.0037BCJ	0.0078QCJ	0.0052BCJ
PCB-5	NC	ng/L	0.037U	0.037U	0.0028QJ	0.37	0.038U	0.038U	0.037U
PCB-50	NC	ng/L	0.037U	0.0055CJ	0.0031CJ	0.0099QCJ	0.0013QCJ	0.038U	0.0024CJ
PCB-51	NC	ng/L	0.037U	0.0074QC45J	0.037U	0.032C45J	0.038U	0.062C45	0.0029QC45J
PCB-53	NC	ng/L	0.037U	0.0055C50J	0.0031C50J	0.0099QC50J	0.0013QC50J	0.038U	0.0024C50J
PCB-54	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-55	NC	ng/L	0.037U	0.0027QJ	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-56/60	NC	ng/L	0.0029QBJ	0.024J	0.037U	0.0049J	0.0023BJ	0.038U	0.0042BJ
PCB-57	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-58	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-6	NC	ng/L	0.0034QBJ	0.0064QBJ	0.0061QBJ	0.11B	0.0023QBJ	0.038U	0.0045QBJ
PCB-61/70	NC	ng/L	0.012BCJ	0.067C	0.0061QCJ	0.071C	0.0086BCJ	0.0067QBCJ	0.013BCJ
PCB-62	NC	ng/L	0.0015C59J	0.0047QC59J	0.037U	0.0039QC59J	0.038U	0.0031QC59J	0.037U
PCB-63	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-65	NC	ng/L	0.012BC44J	0.035C44J	0.012C44J	0.077C44	0.0083QBC44J	0.33BC44	0.015BC44J
PCB-66	NC	ng/L	0.0056BJ	0.039B	0.0043BJ	0.03BJ	0.0044BJ	0.0035BJ	0.0078BJ
PCB-67	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-68	NC	ng/L	0.037U	0.037U	0.037U	0.012J	0.038U	0.042	0.0012QJ
PCB-69	NC	ng/L	0.0053BC49J	0.019BC49J	0.0044QBC49J	0.026BC49J	0.0037BC49J	0.0078QC49J	0.0052BC49J
PCB-7/9	NC	ng/L	0.037U	0.0042QBJ	0.0047QBJ	0.02QBJ	0.0016QJ	0.038U	0.0026QJ
PCB-70	NC	ng/L	0.012BC61J	0.067C61	0.0061QC61J	0.071C61	0.0086BC61J	0.0067QBC61J	0.013BC61J
PCB-71	NC	ng/L	0.0041QC40J	0.026C40J	0.0048C40J	0.017QC40J	0.0041QC40J	0.038U	0.0049QC40J
PCB-73	NC	ng/L	0.037U	0.0018QC43J	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-74	NC	ng/L	0.012BC61J	0.067C61	0.0061QC61J	0.071C61	0.0086BC61J	0.0067QBC61J	0.013BC61J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample ng/L	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample
PCB-76/66	NC	ng/L	0.012BC61J	0.067C61	0.0061QC61J	0.071C61	0.0086BC61J	0.0067QBC61J	0.013BC61J
PCB-77	NC	ng/L	0.037U	0.004QJ	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-78	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-79	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-8	NC	ng/L	0.013QBJ	0.02QBJ	0.013QBJ	0.39B	0.0092QBJ	0.0082BJ	0.012QBJ
PCB-80	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-81	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-82	NC	ng/L	0.037U	0.0031QJ	0.0017QJ	0.038U	0.038U	0.038U	0.037U
PCB-83	NC	ng/L	0.0051QCJ	0.01QCJ	0.037U	0.043C	0.0048CJ	0.0058QCJ	0.037U
PCB-84/92	NC	ng/L	0.0022QJ	0.0069QJ	0.0027QJ	0.0069QJ	0.038U	0.0079J	0.037U
PCB-85/116	NC	ng/L	0.037U	0.0044QCJ	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-86	NC	ng/L	0.022QBCJ	0.027BCJ	0.019QBCJ	0.028QBCJ	0.012QBCJ	0.021QBCJ	0.021QBCJ
PCB-87	NC	ng/L	0.022QBC86J	0.027BC86J	0.019QBC86J	0.028QBC86J	0.012QBC86J	0.021QBC86J	0.021QBC86J
PCB-88/91	NC	ng/L	0.037U	0.0035CJ	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-89	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-9	NC	ng/L	0.0018QBJ	0.0046QJ	0.0041QJ	0.43	0.038U	0.038U	0.037U
PCB-90/101	NC	ng/L	0.0097QBCJ	0.019QBCJ	0.0057QBCJ	0.015BCJ	0.0056BCJ	0.011QBCJ	0.0096BCJ
PCB-92	NC	ng/L	0.037U	0.0036QJ	0.037U	0.0026QJ	0.038U	0.038U	0.037U
PCB-93	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-94	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-95/98/102	NC	ng/L	0.0095QJ	0.019J	0.0065QJ	0.026J	0.0049QJ	0.018J	0.008J
PCB-96	NC	ng/L	0.037U	0.037U	0.037U	0.038U	0.038U	0.038U	0.037U
PCB-97	NC	ng/L	0.022QBC86J	0.027BC86J	0.019QBC86J	0.028QBC86J	0.012QBC86J	0.021QBC86J	0.021QBC86J
Total Di-CB	NC	ng/L	0.064EMPC,U	0.12EPMC,U	0.094EPMC,U	3.8EPMC	0.048EMPC,U	0.050EPMC,U	0.063EMPC,U
Total Hepta-CB	NC	ng/L	0.0015EMPC,U	0.030EPMC,J	0.037U	0.18EPMC,J	0.0040EMPC,U	0.0021EPMC,J	0.011EMPC,U
Total Hexa-CB	NC	ng/L	0.028EMPC,U	0.086EPMC,J	0.018EPMC,U	0.36EPMC,J	0.021EMPC,U	0.036EPMC,U	0.038EMPC,U
Total Mono-CB	NC	ng/L	0.0068EMPC,U	0.017EPMC,U	0.019EPMC,U	3.7	0.011EMPC,U	0.012EPMC,U	0.014EMPC,U
Total Nona-CB	NC	ng/L	0.037U	0.058	0.037U	0.064EPMC	0.038U	0.038U	0.037U
Total Octa-CB	NC	ng/L	0.037U	0.037EPMC,J	0.037U	0.14EPMC,J	0.038U	0.038U	0.0027EMPC,J
Total Penta-CB	NC	ng/L	0.073EMPC,U	0.16EPMC,J	0.045EPMC,U	0.27EPMC	0.042EMPC,U	0.093EPMC,J	0.061EMPC,U
Total Tetra-CB	NC	ng/L	0.069EMPC,U	0.34EPMC	0.060EPMC,U	0.39EPMC	0.050EMPC,U	0.47EPMC	0.084EMPC,U

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0052-03 / SB915-MW-85D / 05/23/2012 / Regular sample	SB915-0058-01 / SB915-PZ-07D / 06/01/2012 / Regular sample	SB915-0058-02 / SB915-PZ-07I / 06/01/2012 / Regular sample	SB915-0058-03 / SB915-PZ-07S / 06/01/2012 / Regular sample	SB915-0053-02 / SB915-WB-01L / 05/24/2012 / Regular sample	SB915-0057-03 / SB915-WB-03L / 05/31/2012 / Regular sample	SB915-0053-01 / SB915-WB-05M / 05/24/2012 / Regular sample
Total Tri-CB	NC	ng/L	0.098EMPC,U	0.28EPMC	0.083EPMC,U	0.60EPMC	0.054EMPC,U	0.032EPMC,U	0.099EMPC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample ng/L	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample
Total PCBs	90(S)	ng/L	2.4264	1.55849	0.8256	3.3842	4.8639	4.03745	1.0671
109-PeCB	NC	ng/L	0.029BC86J	0.04BC86	0.023QBC86J	0.048BC86	0.1BC86	0.05BC86	0.014QBC86J
10-DiCB	NC	ng/L	0.0013QJ	0.002QJ	0.0015QBJ	0.0012QJ	0.037U	0.00085QJ	0.038U
112-PeCB	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
142-HxCB	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
143-HxCB	NC	ng/L	0.0023QC134J	0.0017QC134J	0.036U	0.037U	0.005QC134J	0.008QC134J	0.038U
160-HxCB	NC	ng/L	0.045BC129	0.037QBC129J	0.017C129J	0.053C129	0.14C129	0.062C129	0.011BC129J
161-HxCB	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
162-HxCB	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
164-HxCB	NC	ng/L	0.0023QJ	0.002QJ	0.036U	0.0021QJ	0.0056QJ	0.038U	0.038U
165-HxCB	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.013J	0.0057QJ	0.036U	0.021QJ	0.02J	0.03QJ	0.0083BJ
203-OcCB	NC	ng/L	0.0023QJ	0.038U	0.036U	0.0036QJ	0.0017QJ	0.038U	0.038U
21-TrCB C33	NC	ng/L	0.034BCJ	0.0087QBCJ	0.0093BCJ	0.022BCJ	0.016BCJ	0.025BCJ	0.023BCJ
59-TeCB C62/75	NC	ng/L	0.0055CJ	0.038U	0.0018QCJ	0.0079CJ	0.0045CJ	0.0098QCJ	0.0016QCJ
64-TeCB	NC	ng/L	0.024BJ	0.0098QBJ	0.0098QBJ	0.036BJ	0.032BJ	0.055B	0.016BJ
72-TeCB	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
98-PeCB C102	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB 101	NC	ng/L	0.032BC90J	0.037BC90J	0.013BC90J	0.055BC90	0.13BC90	0.059BC90	0.0093QBC90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB 115 (BZ)	NC	ng/L	0.041BC110	0.052BC110	0.013QBC110J	0.065BC110	0.16BC110	0.078BC110	0.011QBC110J
PCB 116 (BZ)	NC	ng/L	0.0059QC85J	0.0048QC85J	0.036U	0.011QC85J	0.021QC85J	0.011QC85J	0.0026QBC85J
PCB 117 (BZ)	NC	ng/L	0.0059QC85J	0.0048QC85J	0.036U	0.011QC85J	0.021QC85J	0.011QC85J	0.0026QBC85J
PCB 118	NC	ng/L	0.036BJ	0.031BJ	0.013BJ	0.058B	0.13B	0.08B	0.009QBJ
PCB 125 (BZ)	NC	ng/L	0.029BC86J	0.040BC86	0.023QBC86J	0.048BC86	0.10BC86	0.050BC86	0.014QBC86J
PCB 13 (BZ)	NC	ng/L	0.0073QBC12J	0.0062QBC12J	0.0032QBC12J	0.0062QBC12J	0.0039QBC12J	0.0049QBC12J	0.0039QBC12J
PCB 138	NC	ng/L	0.045BC129	0.037QBC129J	0.017C129J	0.053C129	0.14C129	0.062C129	0.011BC129J
PCB 153	NC	ng/L	0.031BCJ	0.024BCJ	0.013QBCJ	0.037BC	0.076BC	0.044BC	0.0081BCJ
PCB 163 (BZ)	NC	ng/L	0.045BC129	0.037QBC129J	0.017C129J	0.053C129	0.14C129	0.062C129	0.011BC129J
PCB 209	NC	ng/L	0.042	0.038U	0.036U	0.15	0.25	0.038U	0.038U
PCB 28	NC	ng/L	0.066BC20	0.016BC20J	0.019BC20J	0.096BC20	0.081BC20	0.15BC20	0.036BC20J

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample ng/L	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample ng/L	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample ng/L	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample ng/L	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample ng/L	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample ng/L	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample ng/L
PCB 30	NC		0.041QBC18J	0.0090QBC18J	0.013C18J	0.033BC18J	0.018BC18J	0.025BC18J	0.019BC18J
PCB 52	NC		0.047B	0.02BJ	0.015QBJ	0.067B	0.09B	0.11B	0.019BJ
PCB 75 (BZ)	NC		0.0055C59J	0.038U	0.0018QC59J	0.0079C59J	0.0045C59J	0.0098QC59J	0.0016QC59J
PCB 91 (BZ)	NC		0.0041QC88J	0.0038QC88J	0.036U	0.0061QC88J	0.011QC88J	0.0098C88J	0.038U
PCB-1	NC		0.0023QBJ	0.0054BJ	0.036U	0.0033BJ	0.0019QBJ	0.0022QBJ	0.0029QBJ
PCB-100	NC		0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-103	NC		0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-104	NC		0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-105	NC		0.017J	0.015J	0.0052QJ	0.028J	0.053	0.038J	0.0058BJ
PCB-106/118	NC		0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-107/109	NC		0.0026J	0.0019QJ	0.0016QJ	0.0025QJ	0.005QJ	0.0039J	0.038U
PCB-108/112	NC		0.038U	0.0019QCJ	0.036U	0.0030QCJ	0.0037QCJ	0.0030QCJ	0.038U
PCB-11	NC		0.067B	0.028QBJ	0.026BJ	0.033BJ	0.026QBJ	0.036QBJ	0.028QBJ
PCB-110	NC		0.041BC	0.052BC	0.013QBCJ	0.065BC	0.16BC	0.078BC	0.011QBCJ
PCB-111/115	NC		0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-113	NC		0.032BC90J	0.037BC90J	0.013BC90J	0.055BC90	0.13BC90	0.059BC90	0.0093QBC90J
PCB-114	NC		0.038U	0.0016J	0.036U	0.0038J	0.0029QJ	0.038U	0.038U
PCB-119	NC		0.029BC86J	0.040BC86	0.023QBC86J	0.048BC86	0.10BC86	0.050BC86	0.014QBC86J
PCB-12/13	NC		0.0073QBCJ	0.0062QBCJ	0.0032QBCJ	0.0062QBCJ	0.0039QBCJ	0.0049QBCJ	0.0039QBCJ
PCB-120	NC		0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-121	NC		0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-122	NC		0.038U	0.038U	0.036U	0.037U	0.0021QJ	0.038U	0.038U
PCB-123	NC		0.038U	0.00079QJ	0.036U	0.0021J	0.0021J	0.038U	0.038U
PCB-124	NC		0.038U	0.0019QC108J	0.036U	0.0030QC108J	0.0037QC108J	0.0030QC108J	0.038U
PCB-126	NC		0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-127	NC		0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-128/162	NC		0.007CJ	0.006QCJ	0.036U	0.01CJ	0.021CJ	0.011CJ	0.0023CJ
PCB-129	NC		0.045BC	0.037QBCJ	0.017CJ	0.053C	0.14C	0.062C	0.011BCJ
PCB-130	NC		0.0031J	0.002QJ	0.036U	0.037U	0.0055QJ	0.0027QJ	0.038U
PCB-131	NC		0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-132/161	NC		0.014J	0.017J	0.0061J	0.013QJ	0.042	0.023J	0.0038QJ

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample
PCB-133/142	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-134/143	NC	ng/L	0.0023QCJ	0.0017QCJ	0.036U	0.037U	0.005QCJ	0.008QCJ	0.038U
PCB-135	NC	ng/L	0.0075QCJ	0.0065QCJ	0.036U	0.0081QCJ	0.017QCJ	0.0085QCJ	0.0023QCJ
PCB-136	NC	ng/L	0.0033J	0.0027QJ	0.036U	0.0038J	0.0081QJ	0.003QJ	0.038U
PCB-137	NC	ng/L	0.003J	0.0025QJ	0.036U	0.0036J	0.0079J	0.038U	0.038U
PCB-139/149	NC	ng/L	0.038U	0.001CJ	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-14	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-140	NC	ng/L	0.038U	0.0010C139J	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-141	NC	ng/L	0.0085QJ	0.0066J	0.036U	0.0092J	0.017J	0.0074QJ	0.038U
PCB-144	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.0035J	0.038U	0.038U
PCB-145	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-146/165	NC	ng/L	0.005J	0.0035J	0.036U	0.0049QJ	0.0092J	0.0076QJ	0.038U
PCB-147	NC	ng/L	0.024BCJ	0.024BCJ	0.014BCJ	0.033CJ	0.071C	0.049C	0.008BCJ
PCB-148	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-149	NC	ng/L	0.024BC147J	0.024BC147J	0.014BC147J	0.033C147J	0.071C147	0.049C147	0.0080BC147J
PCB-15	NC	ng/L	0.016QBJ	0.0064QBJ	0.0053QBJ	0.023BJ	0.02QBJ	0.025QBJ	0.011QBJ
PCB-150	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-151	NC	ng/L	0.0075QC135J	0.0065QC135J	0.036U	0.0081QC135J	0.017QC135J	0.0085QC135J	0.0023QC135J
PCB-152	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-153	NC	ng/L	0.013QBC83J	0.018BC83J	0.01C83J	0.041C83	0.07QC83	0.042C83	0.0056QBC83J
PCB-154	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-155	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-156	NC	ng/L	0.0054QCJ	0.0047QCJ	0.036U	0.0082QCJ	0.014CJ	0.0073CJ	0.038U
PCB-157	NC	ng/L	0.0054QC156J	0.0047QC156J	0.036U	0.0082QC156J	0.014C156J	0.0073C156J	0.038U
PCB-158/160	NC	ng/L	0.0042QJ	0.0042QJ	0.036U	0.0044QJ	0.014J	0.004QJ	0.0011QJ
PCB-159	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-16/32	NC	ng/L	0.025J	0.038U	0.0072J	0.017QJ	0.01J	0.014J	0.013BJ
PCB-166	NC	ng/L	0.0070C128J	0.0060QC128J	0.036U	0.010C128J	0.021C128J	0.011C128J	0.0023C128J
PCB-167	NC	ng/L	0.0018J	0.038U	0.036U	0.003J	0.0044QJ	0.038U	0.038U
PCB-168	NC	ng/L	0.031BC153J	0.024BC153J	0.013QBC153J	0.037BC153	0.076BC153	0.044BC153	0.0081BC153J
PCB-169	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample
PCB-17	NC	ng/L	0.021J	0.007QJ	0.0051QJ	0.016J	0.0062QJ	0.013J	0.0075QBJ
PCB-170	NC	ng/L	0.0084J	0.038U	0.036U	0.0074QJ	0.009J	0.0071J	0.038U
PCB-171	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.003CJ	0.038U	0.038U
PCB-172	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-173	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.0030C171J	0.038U	0.038U
PCB-174	NC	ng/L	0.0067J	0.0045J	0.036U	0.0061QJ	0.0055QJ	0.0055J	0.038U
PCB-175	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-176	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-177	NC	ng/L	0.0051J	0.038U	0.036U	0.0038J	0.0029J	0.002QJ	0.038U
PCB-178	NC	ng/L	0.0014QJ	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-179	NC	ng/L	0.002J	0.0014QJ	0.0021QJ	0.0028QJ	0.0026J	0.038U	0.038U
PCB-18	NC	ng/L	0.041QBCJ	0.009QBCJ	0.013CJ	0.033BCJ	0.018BCJ	0.025BCJ	0.019BCJ
PCB-180	NC	ng/L	0.016CJ	0.0046QCJ	0.0047CJ	0.017CJ	0.012CJ	0.011CJ	0.0044QBCJ
PCB-181	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-182/187	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-183	NC	ng/L	0.0089J	0.038U	0.036U	0.0087J	0.0068QJ	0.038U	0.0029QJ
PCB-184	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-185	NC	ng/L	0.0052C183J	0.038U	0.036U	0.0038QC183J	0.0042C183J	0.038U	0.0024C183J
PCB-186	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-188	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-189	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-19	NC	ng/L	0.0043QJ	0.038U	0.036U	0.006J	0.037U	0.0041QJ	0.038U
PCB-190	NC	ng/L	0.038U	0.038U	0.036U	0.0021J	0.037U	0.038U	0.038U
PCB-191	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-192	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-193	NC	ng/L	0.016C180J	0.0046QC180J	0.0047C180J	0.017C180J	0.012C180J	0.011C180J	0.0044QBC180J
PCB-194	NC	ng/L	0.0033J	0.038U	0.036U	0.006QJ	0.0022QJ	0.0047QJ	0.038U
PCB-195	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-196/203	NC	ng/L	0.0016QJ	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-197	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-198	NC	ng/L	0.0039QCJ	0.038U	0.036U	0.0072CJ	0.037U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample
PCB-199	NC	ng/L	0.0039QC198J	0.038U	0.036U	0.0072C198J	0.037U	0.038U	0.038U
PCB-2	NC	ng/L	0.0017QBJ	0.0033QBJ	0.0047BJ	0.0026BJ	0.037U	0.038U	0.0065QBJ
PCB-20/21/33	NC	ng/L	0.066BC	0.016BCJ	0.019BCJ	0.096BC	0.081BC	0.15BC	0.036BCJ
PCB-200	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-201	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-202	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-204	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-205	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-206	NC	ng/L	0.0041J	0.038U	0.036U	0.0045QJ	0.0084J	0.038U	0.038U
PCB-207	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-208	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.0038QJ	0.038U	0.038U
PCB-22	NC	ng/L	0.024BJ	0.0067QBJ	0.0051QBJ	0.036BJ	0.032BJ	0.052B	0.015BJ
PCB-23	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-24/27	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-25	NC	ng/L	0.0048BJ	0.038U	0.0018QBJ	0.0046J	0.003QJ	0.0059J	0.0024BJ
PCB-26	NC	ng/L	0.011BCJ	0.0019BCJ	0.0041BCJ	0.0096CJ	0.0068CJ	0.012CJ	0.0051BCJ
PCB-27	NC	ng/L	0.038U	0.038U	0.036U	0.0036J	0.0024J	0.0027QJ	0.038U
PCB-29	NC	ng/L	0.011BC26J	0.0019BC26J	0.0041BC26J	0.0096C26J	0.0068C26J	0.012C26J	0.0051BC26J
PCB-3	NC	ng/L	0.0035BJ	0.0033QBJ	0.036U	0.003J	0.0023QJ	0.0024QJ	0.0044QBJ
PCB-31	NC	ng/L	0.052B	0.013BJ	0.015BJ	0.048B	0.039B	0.059B	0.028BJ
PCB-32	NC	ng/L	0.015BJ	0.0045QBJ	0.004QJ	0.017QJ	0.011J	0.019J	0.0065QBJ
PCB-33	NC	ng/L	0.034BC21J	0.0087QBC21J	0.0093BC21J	0.022BC21J	0.016BC21J	0.025BC21J	0.023BC21J
PCB-34	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-35	NC	ng/L	0.0022J	0.038U	0.036U	0.001QJ	0.037U	0.038U	0.038U
PCB-36	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-37	NC	ng/L	0.015BJ	0.006BJ	0.0054QBJ	0.034BJ	0.023QBJ	0.044B	0.019BJ
PCB-38	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-39	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-4/10	NC	ng/L	0.016QBJ	0.0093QBJ	0.0055QBJ	0.0072QBJ	0.0074QBJ	0.0056QBJ	0.0081QBJ
PCB-40	NC	ng/L	0.028CJ	0.0094CJ	0.0065QCJ	0.04C	0.031CJ	0.057C	0.017QBCJ
PCB-42/59	NC	ng/L	0.013J	0.038U	0.0042J	0.018J	0.014J	0.026J	0.0068J

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0046-04 / SB915-WB-05R / 05/01/2012 / Regular sample	SB915-0046-01 / SB915-WB-05U / 05/01/2012 / Regular sample	SB915-0052-01 / SB915-WB-06 / 05/23/2012 / Regular sample	SB915-0043-03 / SB915-WB-07L / 04/26/2012 / Regular sample	SB915-0043-04 / SB915-WB-07R / 04/26/2012 / Regular sample	SB915-0043-02 / SB915-WB-07U / 04/26/2012 / Regular sample	SB915-0041-01 / SB915-WB-09L / 04/24/2012 / Regular sample
PCB-41/64/71/72	NC	ng/L	0.028C40J	0.0094C40J	0.0065QC40J	0.04C40	0.031C40J	0.057C40	0.017QBC40J
PCB-43/49	NC	ng/L	0.0023QCJ	0.038U	0.036U	0.0036QCJ	0.0026QCJ	0.0035QCJ	0.038U
PCB-44	NC	ng/L	0.047BC	0.047BC	0.017BCJ	0.065BC	0.065BC	0.099BC	0.027BCJ
PCB-45	NC	ng/L	0.011BCJ	0.02BCJ	0.036U	0.011CJ	0.0075QCJ	0.014QCJ	0.0044QBCJ
PCB-46	NC	ng/L	0.0047QJ	0.038U	0.036U	0.0057J	0.0031QJ	0.0048QJ	0.038U
PCB-47	NC	ng/L	0.047BC44	0.047BC44	0.017BC44J	0.065BC44	0.065BC44	0.099BC44	0.027BC44J
PCB-48/75	NC	ng/L	0.0086QJ	0.038U	0.0031QJ	0.011J	0.0071J	0.015J	0.0055J
PCB-49	NC	ng/L	0.025BCJ	0.0066BCJ	0.0083QBCJ	0.038C	0.032CJ	0.055C	0.013BCJ
PCB-5	NC	ng/L	0.0015QJ	0.0014QJ	0.0015QBJ	0.0023QJ	0.0011QJ	0.0016QJ	0.038U
PCB-50	NC	ng/L	0.005QCJ	0.038U	0.0027QCJ	0.0078CJ	0.0061CJ	0.012CJ	0.0029QCJ
PCB-51	NC	ng/L	0.011BC45J	0.020BC45J	0.036U	0.011C45J	0.0075QC45J	0.014QC45J	0.0044QBC45J
PCB-53	NC	ng/L	0.0050QC50J	0.038U	0.0027QC50J	0.0078C50J	0.0061C50J	0.012C50J	0.0029QC50J
PCB-54	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-55	NC	ng/L	0.002J	0.038U	0.036U	0.0054J	0.0025QJ	0.005J	0.038U
PCB-56/60	NC	ng/L	0.021BJ	0.0089BJ	0.0054BJ	0.037	0.032J	0.05	0.014BJ
PCB-57	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-58	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-6	NC	ng/L	0.0089QBJ	0.0051QBJ	0.0027QBJ	0.0057QBJ	0.0042QBJ	0.0027QBJ	0.0038QBJ
PCB-61/70	NC	ng/L	0.068BC	0.029BCJ	0.019BCJ	0.11BC	0.11BC	0.16BC	0.04BC
PCB-62	NC	ng/L	0.0055C59J	0.038U	0.0018QC59J	0.0079C59J	0.0045C59J	0.0098QC59J	0.0016QC59J
PCB-63	NC	ng/L	0.0022J	0.038U	0.036U	0.0027J	0.0022J	0.0051J	0.038U
PCB-65	NC	ng/L	0.047BC44	0.047BC44	0.017BC44J	0.065BC44	0.065BC44	0.099BC44	0.027BC44J
PCB-66	NC	ng/L	0.037BJ	0.014BJ	0.01QBJ	0.076B	0.067B	0.11B	0.024BJ
PCB-67	NC	ng/L	0.038U	0.038U	0.036U	0.0017QJ	0.0014J	0.0017QJ	0.038U
PCB-68	NC	ng/L	0.0014J	0.012J	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-69	NC	ng/L	0.025BC49J	0.0066BC49J	0.0083QBC49J	0.038C49	0.032C49J	0.055C49	0.013BC49J
PCB-7/9	NC	ng/L	0.0027QJ	0.038U	0.0016QJ	0.0025QBJ	0.0013QBJ	0.0022QBJ	0.0013QBJ
PCB-70	NC	ng/L	0.068BC61	0.029BC61J	0.019BC61J	0.11BC61	0.11BC61	0.16BC61	0.040BC61
PCB-71	NC	ng/L	0.028C40J	0.0094C40J	0.0065QC40J	0.040C40	0.031C40J	0.057C40	0.017QBC40J
PCB-73	NC	ng/L	0.0023QC43J	0.038U	0.036U	0.0036QC43J	0.0026QC43J	0.0035QC43J	0.038U
PCB-74	NC	ng/L	0.068BC61	0.029BC61J	0.019BC61J	0.11BC61	0.11BC61	0.16BC61	0.040BC61

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample
PCB-76/66	NC	ng/L	0.068BC61	0.029BC61J	0.019BC61J	0.11BC61	0.11BC61	0.16BC61	0.040BC61
PCB-77	NC	ng/L	0.0034QBJ	0.0029BJ	0.0015QJ	0.0056J	0.0047J	0.0066J	0.003QJ
PCB-78	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-79	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-8	NC	ng/L	0.033QBJ	0.0093QBJ	0.012QBJ	0.017BJ	0.015QBJ	0.012QBJ	0.013QBJ
PCB-80	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-81	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-82	NC	ng/L	0.038U	0.0071J	0.036U	0.011J	0.013QJ	0.011J	0.0036J
PCB-83	NC	ng/L	0.013QBCJ	0.018BCJ	0.01CJ	0.041C	0.07QC	0.042C	0.0056QBCJ
PCB-84/92	NC	ng/L	0.0098J	0.0083QJ	0.0043QJ	0.015J	0.022QJ	0.017J	0.0038J
PCB-85/116	NC	ng/L	0.0059QCJ	0.0048QCJ	0.036U	0.011QCJ	0.021QCJ	0.011QCJ	0.0026QBCJ
PCB-86	NC	ng/L	0.029BCJ	0.04BC	0.023QBCJ	0.048BC	0.1BC	0.05BC	0.014QBCJ
PCB-87	NC	ng/L	0.029BC86J	0.040BC86	0.023QBC86J	0.048BC86	0.10BC86	0.050BC86	0.014QBC86J
PCB-88/91	NC	ng/L	0.0041QCJ	0.0038QCJ	0.036U	0.0061QCJ	0.011QCJ	0.0098CJ	0.038U
PCB-89	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-9	NC	ng/L	0.0047QJ	0.038U	0.0024QBJ	0.0021QJ	0.037U	0.038U	0.0011QBJ
PCB-90/101	NC	ng/L	0.032BCJ	0.037BCJ	0.013BCJ	0.055BC	0.13BC	0.059BC	0.0093QBCJ
PCB-92	NC	ng/L	0.0038QJ	0.0056QJ	0.036U	0.0095J	0.017J	0.0067QJ	0.038U
PCB-93	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-94	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-95/98/102	NC	ng/L	0.025J	0.025J	0.012QJ	0.036QBJ	0.091B	0.049B	0.0081QBJ
PCB-96	NC	ng/L	0.038U	0.038U	0.036U	0.037U	0.037U	0.038U	0.038U
PCB-97	NC	ng/L	0.029BC86J	0.040BC86	0.023QBC86J	0.048BC86	0.10BC86	0.050BC86	0.014QBC86J
Total Di-CB	NC	ng/L	0.16EMPC,U	0.068EMPC,U	0.061EMPC,U	0.099EMPC,U	0.079EMPC,U	0.090EMPC,U	0.070EMPC,U
Total Hepta-CB	NC	ng/L	0.053EMPC,J	0.014EMPC,J	0.0068EMPC,UJ	0.052EMPC,J	0.046EMPC,J	0.031EMPC,J	0.0097EMPC,U
Total Hexa-CB	NC	ng/L	0.17EMPC	0.15EMPC,U	0.051EMPC,U	0.19EMPC	0.46EMPC	0.24EMPC	0.037EMPC,U
Total Mono-CB	NC	ng/L	0.0075EMPC,U	0.012EMPC,U	0.0047U	0.0089EMPC,U	0.0042EMPC,U	0.0046EMPC,U	0.014EMPC,U
Total Nona-CB	NC	ng/L	0.0041J	0.038U	0.036U	0.0045EMPC,J	0.012EMPC,J	0.038U	0.038U
Total Octa-CB	NC	ng/L	0.011EMPC,J	0.038U	0.036U	0.017EMPC,J	0.0039EMPC,J	0.0047EMPC,J	0.038U
Total Penta-CB	NC	ng/L	0.22EMPC	0.25EMPC	0.096EMPC,U	0.39EMPC	0.83EMPC	0.46EMPC	0.074EMPC,U
Total Tetra-CB	NC	ng/L	0.37EMPC	0.19EMPC	0.10EMPC,U	0.57EMPC	0.54EMPC	0.82EMPC	0.20EMPC,U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0046-04 / SB915-WB-05R / 05/01/2012 / Regular sample	SB915-0046-01 / SB915-WB-05U / 05/01/2012 / Regular sample	SB915-0052-01 / SB915-WB-06 / 05/23/2012 / Regular sample	SB915-0043-03 / SB915-WB-07L / 04/26/2012 / Regular sample	SB915-0043-04 / SB915-WB-07R / 04/26/2012 / Regular sample	SB915-0043-02 / SB915-WB-07U / 04/26/2012 / Regular sample	SB915-0041-01 / SB915-WB-09L / 04/24/2012 / Regular sample
Total Tri-CB	NC	ng/L	0.32EMPC	0.074EMPC,U	0.090EMPC,U	0.34EMPC	0.25EMPC	0.42EMPC	0.17EMPC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample
Total PCBs	90(S)	ng/L	1.03212	2.34436	1.62284	3.9242	2.6629	2.6629
109-PeCB	NC	ng/L	0.014BC86J	0.03BC86J	0.02QBC86J	0.022QBC86J	0.038BC86	0.012QBC86J
10-DiCB	NC	ng/L	0.00092QBJ	0.00072QBJ	0.0016QBJ	0.038U	0.0013QBJ	0.038U
112-PeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
142-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
143-HxCB	NC	ng/L	0.038U	0.0024QC134J	0.038U	0.038U	0.038U	0.038U
160-HxCB	NC	ng/L	0.0043BC129J	0.037BC129J	0.011BC129J	0.011BC129J	0.04BC129	0.01BC129J
161-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
162-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
164-HxCB	NC	ng/L	0.038U	0.002QJ	0.038U	0.038U	0.038U	0.038U
165-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.038U	0.02BJ	0.0067BJ	0.024QJ	0.014J	0.038U
203-OcCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0093QJ	0.038U
21-TrCB C33	NC	ng/L	0.0075BCJ	0.043BC	0.030BCJ	0.120BC	0.041BC	0.0064QBCJ
59-TeCB C62/75	NC	ng/L	0.0022QCJ	0.0054QCJ	0.0031QCJ	0.014CJ	0.0065CJ	0.038U
64-TeCB	NC	ng/L	0.0061QBJ	0.029BJ	0.016BJ	0.06B	0.027BJ	0.0055QBJ
72-TeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
98-PeCB C102	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB 101	NC	ng/L	0.0021QBC90J	0.023BC90J	0.0084QBC90J	0.014QC90J	0.030C90J	0.0035C90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB 115 (BZ)	NC	ng/L	0.0032QBC110J	0.031BC110J	0.011BC110J	0.019BC110J	0.039BC110	0.0052QBC110J
PCB 116 (BZ)	NC	ng/L	0.038U	0.0059BC85J	0.0021QBC85J	0.0039C85J	0.0065C85J	0.038U
PCB 117 (BZ)	NC	ng/L	0.038U	0.0059BC85J	0.0021QBC85J	0.0039C85J	0.0065C85J	0.038U
PCB 118	NC	ng/L	0.0024QBJ	0.026BJ	0.0092QBJ	0.012BJ	0.038B	0.003QBJ
PCB 125 (BZ)	NC	ng/L	0.014BC86J	0.030BC86J	0.020QBC86J	0.022QBC86J	0.038BC86	0.012QBC86J
PCB 13 (BZ)	NC	ng/L	0.0045QBC12J	0.0042QBC12J	0.0039QBC12J	0.0070QBC12J	0.0063QBC12J	0.0033QBC12J
PCB 138	NC	ng/L	0.0043BC129J	0.037BC129J	0.011BC129J	0.011BC129J	0.040BC129	0.010BC129J
PCB 153	NC	ng/L	0.0029QBCJ	0.02BCJ	0.0069BCJ	0.0072QCJ	0.025CJ	0.0053QCJ
PCB 163 (BZ)	NC	ng/L	0.0043BC129J	0.037BC129J	0.011BC129J	0.011BC129J	0.040BC129	0.010BC129J
PCB 209	NC	ng/L	0.038U	0.038U	0.0058QJ	0.038U	0.024QJ	0.038U
PCB 28	NC	ng/L	0.012BC20J	0.061BC20	0.044BC20	0.17BC20	0.082BC20	0.0092BC20J

NOTES:

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Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample
PCB 30	NC	ng/L	0.0077QBC18J	0.037BC18J	0.041BC18J	0.13BC18	0.043BC18J	0.0062QBC18J
PCB 52	NC	ng/L	0.0084QBJ	0.049B	0.024BJ	0.1B	0.055B	0.0055BJ
PCB 75 (BZ)	NC	ng/L	0.0022QC59J	0.0054QC59J	0.0031QC59J	0.014C59J	0.0065C59J	0.038U
PCB 91 (BZ)	NC	ng/L	0.038U	0.0039BC88J	0.038U	0.0036C88J	0.038U	0.038U
PCB-1	NC	ng/L	0.014BJ	0.0031BJ	0.0045BJ	0.0035QBJ	0.0044QBJ	0.0041QBJ
PCB-100	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-103	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-104	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-105	NC	ng/L	0.038U	0.018BJ	0.0048BJ	0.0072J	0.015QJ	0.0027J
PCB-106/118	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-107/109	NC	ng/L	0.038U	0.0013QJ	0.038U	0.038U	0.0031J	0.038U
PCB-108/112	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-11	NC	ng/L	0.02QBJ	0.026QBJ	0.022QBJ	0.027QBJ	0.065QB	0.019QBJ
PCB-110	NC	ng/L	0.0032QBCJ	0.031BCJ	0.011BCJ	0.019BCJ	0.039BC	0.0052QBCJ
PCB-111/115	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-113	NC	ng/L	0.0021QBC90J	0.023BC90J	0.0084QBC90J	0.014QC90J	0.030C90J	0.0035C90J
PCB-114	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-119	NC	ng/L	0.014BC86J	0.030BC86J	0.020QBC86J	0.022QBC86J	0.038BC86	0.012QBC86J
PCB-12/13	NC	ng/L	0.0045QBCJ	0.0042QBCJ	0.0039QBCJ	0.007QBCJ	0.0063QBCJ	0.0033QBCJ
PCB-120	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-121	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-122	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-123	NC	ng/L	0.038U	0.00064J	0.038U	0.038U	0.038U	0.038U
PCB-124	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-126	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-127	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-128/162	NC	ng/L	0.038U	0.0086QCJ	0.0021QCJ	0.038U	0.0056QCJ	0.038U
PCB-129	NC	ng/L	0.0043BCJ	0.037BCJ	0.011BCJ	0.011BCJ	0.04BC	0.01BCJ
PCB-130	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-131	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-132/161	NC	ng/L	0.0016QJ	0.011QJ	0.0023QJ	0.0032QJ	0.012J	0.038U

NOTES:

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Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample ng/L	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample ng/L	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample ng/L	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample ng/L	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample ng/L	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample ng/L
PCB-133/142	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-134/143	NC		0.038U	0.0024QCJ	0.038U	0.038U	0.038U	0.038U
PCB-135	NC		0.038U	0.0054QCJ	0.038U	0.038U	0.0079QCJ	0.038U
PCB-136	NC		0.038U	0.038U	0.038U	0.038U	0.0035QJ	0.038U
PCB-137	NC		0.038U	0.0021QJ	0.038U	0.038U	0.038U	0.038U
PCB-139/149	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-14	NC		0.0014QJ	0.038U	0.038U	0.0024QJ	0.0021QJ	0.0018QJ
PCB-140	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-141	NC		0.038U	0.0065J	0.038U	0.038U	0.0059J	0.038U
PCB-144	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-145	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-146/165	NC		0.038U	0.0028QJ	0.038U	0.038U	0.0058J	0.038U
PCB-147	NC		0.0041BCJ	0.017BCJ	0.0073BCJ	0.014BCJ	0.024QBCJ	0.0058BCJ
PCB-148	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-149	NC		0.0041BC147J	0.017BC147J	0.0073BC147J	0.014BC147J	0.024QBC147J	0.0058BC147J
PCB-15	NC		0.0068QBJ	0.012QBJ	0.012QBJ	0.056QB	0.017QBJ	0.004QBJ
PCB-150	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-151	NC		0.038U	0.0054QC135J	0.038U	0.038U	0.0079QC135J	0.038U
PCB-152	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-153	NC		0.038U	0.013BC83J	0.0047QBC83J	0.011BC83J	0.017QBC83J	0.0022QBC83J
PCB-154	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-155	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-156	NC		0.038U	0.0058QCJ	0.00089QCJ	0.038U	0.0047CJ	0.038U
PCB-157	NC		0.038U	0.0058QC156J	0.00089QC156J	0.038U	0.0047C156J	0.038U
PCB-158/160	NC		0.038U	0.0044J	0.00092QJ	0.038U	0.0037QJ	0.038U
PCB-159	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-16/32	NC		0.0037QBJ	0.02QBJ	0.021BJ	0.081	0.023J	0.0032J
PCB-166	NC		0.038U	0.0086QC128J	0.0021QC128J	0.038U	0.0056QC128J	0.038U
PCB-167	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-168	NC		0.0029QBC153J	0.020BC153J	0.0069BC153J	0.0072QC153J	0.025C153J	0.0053QC153J
PCB-169	NC		0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

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Total PCBs determined by summing the detected PCB congeners.

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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample
PCB-17	NC	ng/L	0.0043BJ	0.016BJ	0.017BJ	0.056	0.017QJ	0.0055J
PCB-170	NC	ng/L	0.038U	0.0078J	0.0024QJ	0.038U	0.0058QJ	0.0017QJ
PCB-171	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-172	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-173	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-174	NC	ng/L	0.038U	0.0044QJ	0.0012QJ	0.038U	0.0048QJ	0.0037J
PCB-175	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-176	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-177	NC	ng/L	0.038U	0.038U	0.038U	0.0012QJ	0.003QJ	0.038U
PCB-178	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-179	NC	ng/L	0.038U	0.0014QJ	0.00064QJ	0.038U	0.0023QJ	0.038U
PCB-18	NC	ng/L	0.0077QBCJ	0.037BCJ	0.041BCJ	0.13BC	0.043BCJ	0.0062QBCJ
PCB-180	NC	ng/L	0.0023QBCJ	0.0096QBCJ	0.005BCJ	0.0057CJ	0.012CJ	0.0038CJ
PCB-181	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-182/187	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-183	NC	ng/L	0.038U	0.0037QJ	0.038U	0.038U	0.0065QJ	0.038U
PCB-184	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-185	NC	ng/L	0.038U	0.0035C183J	0.038U	0.038U	0.0036QC183J	0.038U
PCB-186	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-188	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-189	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-19	NC	ng/L	0.038U	0.038U	0.0051QJ	0.012QJ	0.0037QJ	0.038U
PCB-190	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-191	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-192	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-193	NC	ng/L	0.0023QBC180J	0.0096QBC180J	0.0050BC180J	0.0057C180J	0.012C180J	0.0038C180J
PCB-194	NC	ng/L	0.038U	0.038U	0.0019QJ	0.038U	0.0049QJ	0.038U
PCB-195	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-196/203	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0027QJ	0.038U
PCB-197	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-198	NC	ng/L	0.038U	0.0029QCJ	0.0021QCJ	0.038U	0.016BCJ	0.038U

NOTES:

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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample
PCB-199	NC	ng/L	0.038U	0.0029QC198J	0.0021QC198J	0.038U	0.016BC198J	0.038U
PCB-2	NC	ng/L	0.005BJ	0.0027QBJ	0.0035BJ	0.0043BJ	0.0075BJ	0.0035QBJ
PCB-20/21/33	NC	ng/L	0.012BCJ	0.061BC	0.044BC	0.17BC	0.082BC	0.0092BCJ
PCB-200	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-201	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-202	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0033QJ	0.038U
PCB-204	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-205	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-206	NC	ng/L	0.038U	0.038U	0.0061QJ	0.038U	0.034QJ	0.038U
PCB-207	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.0026QJ	0.038U
PCB-208	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.011QJ	0.038U
PCB-22	NC	ng/L	0.0058BJ	0.03BJ	0.019BJ	0.1B	0.035BJ	0.0039BJ
PCB-23	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-24/27	NC	ng/L	0.038U	0.038U	0.038U	0.0016QJ	0.038U	0.038U
PCB-25	NC	ng/L	0.0012BJ	0.0042BJ	0.0034BJ	0.011J	0.005QJ	0.00085QJ
PCB-26	NC	ng/L	0.0021BCJ	0.01BCJ	0.0079BCJ	0.025QCJ	0.011QCJ	0.0016QCJ
PCB-27	NC	ng/L	0.038U	0.038U	0.0023J	0.01J	0.0043J	0.038U
PCB-29	NC	ng/L	0.0021BC26J	0.010BC26J	0.0079BC26J	0.025QC26J	0.011QC26J	0.0016QC26J
PCB-3	NC	ng/L	0.0042QBJ	0.0037BJ	0.0024QBJ	0.0038BJ	0.0038BJ	0.003QBJ
PCB-31	NC	ng/L	0.011BJ	0.056B	0.038B	0.14B	0.062B	0.0078BJ
PCB-32	NC	ng/L	0.0041BJ	0.014BJ	0.012BJ	0.046	0.016J	0.0025QJ
PCB-33	NC	ng/L	0.0075BC21J	0.043BC21	0.030BC21J	0.12BC21	0.041BC21	0.0064QBC21J
PCB-34	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-35	NC	ng/L	0.038U	0.038U	0.0014QJ	0.0035QJ	0.0041J	0.038U
PCB-36	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-37	NC	ng/L	0.003BJ	0.028BJ	0.013BJ	0.081B	0.025BJ	0.0018BJ
PCB-38	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-39	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-4/10	NC	ng/L	0.0089QBJ	0.0061QBJ	0.019QBJ	0.028QBJ	0.0084QBJ	0.0045QBJ
PCB-40	NC	ng/L	0.0056BCJ	0.043BC	0.018BCJ	0.1C	0.034CJ	0.0028CJ
PCB-42/59	NC	ng/L	0.038U	0.017J	0.0067QJ	0.041Q	0.012QJ	0.038U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample
PCB-41/64/71/72	NC	ng/L	0.0056BC40J	0.043BC40	0.018BC40J	0.1C40	0.034C40J	0.0028C40J
PCB-43/49	NC	ng/L	0.038U	0.0026QBCJ	0.038U	0.0039QCJ	0.0029QCJ	0.038U
PCB-44	NC	ng/L	0.16BC	0.063BC	0.13BC	0.13BC	0.063BC	0.13BC
PCB-45	NC	ng/L	0.046BC	0.013BCJ	0.033BCJ	0.029CJ	0.015CJ	0.031CJ
PCB-46	NC	ng/L	0.038U	0.0036QJ	0.0021QJ	0.015J	0.0038QJ	0.038U
PCB-47	NC	ng/L	0.16BC44	0.063BC44	0.13BC44	0.13BC44	0.063BC44	0.13BC44
PCB-48/75	NC	ng/L	0.0021QJ	0.015J	0.0059J	0.023QJ	0.012J	0.038U
PCB-49	NC	ng/L	0.0074BCJ	0.026BCJ	0.014BCJ	0.062C	0.03QCJ	0.0035QCJ
PCB-5	NC	ng/L	0.038U	0.038U	0.0027QJ	0.0043QJ	0.0012QJ	0.0016QJ
PCB-50	NC	ng/L	0.038U	0.0058QCJ	0.0056CJ	0.018CJ	0.0083CJ	0.0012QCJ
PCB-51	NC	ng/L	0.046BC45	0.013BC45J	0.033BC45J	0.029C45J	0.015C45J	0.031C45J
PCB-53	NC	ng/L	0.038U	0.0058QC50J	0.0056C50J	0.018C50J	0.0083C50J	0.0012QC50J
PCB-54	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-55	NC	ng/L	0.0013J	0.0047QJ	0.0018QJ	0.0067QJ	0.038U	0.038U
PCB-56/60	NC	ng/L	0.0038BJ	0.034BJ	0.011BJ	0.048	0.021J	0.0019J
PCB-57	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-58	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-6	NC	ng/L	0.0033QBJ	0.0058QBJ	0.0079QBJ	0.015QBJ	0.0075QBJ	0.0042QBJ
PCB-61/70	NC	ng/L	0.0072BCJ	0.086BC	0.034BCJ	0.13BC	0.073BC	0.0052QBCJ
PCB-62	NC	ng/L	0.0022QC59J	0.0054QC59J	0.0031QC59J	0.014C59J	0.0065C59J	0.038U
PCB-63	NC	ng/L	0.038U	0.002QJ	0.038U	0.038U	0.0022QJ	0.038U
PCB-65	NC	ng/L	0.16BC44	0.063BC44	0.13BC44	0.13BC44	0.063BC44	0.13BC44
PCB-66	NC	ng/L	0.0047BJ	0.05B	0.021BJ	0.072B	0.041B	0.003BJ
PCB-67	NC	ng/L	0.038U	0.0014QJ	0.001QJ	0.0026QJ	0.038U	0.038U
PCB-68	NC	ng/L	0.049	0.038U	0.0091J	0.038U	0.038U	0.0089QJ
PCB-69	NC	ng/L	0.0074BC49J	0.026BC49J	0.014BC49J	0.062C49	0.030QC49J	0.0035QC49J
PCB-7/9	NC	ng/L	0.0013QBJ	0.038U	0.0018QBJ	0.0063QJ	0.0022QJ	0.0017QJ
PCB-70	NC	ng/L	0.0072BC61J	0.086BC61	0.034BC61J	0.13BC61	0.073BC61	0.0052QBC61J
PCB-71	NC	ng/L	0.0056BC40J	0.043BC40	0.018BC40J	0.10C40	0.034C40J	0.0028C40J
PCB-73	NC	ng/L	0.038U	0.0026QBC43J	0.038U	0.0039QC43J	0.0029QC43J	0.038U
PCB-74	NC	ng/L	0.0072BC61J	0.086BC61	0.034BC61J	0.13BC61	0.073BC61	0.0052QBC61J

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample
PCB-76/66	NC	ng/L	0.0072BC61J	0.086BC61	0.034BC61J	0.13BC61	0.073BC61	0.0052QBC61J
PCB-77	NC	ng/L	0.038U	0.0056J	0.0025QJ	0.005QJ	0.0048J	0.038U
PCB-78	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-79	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-8	NC	ng/L	0.0088QBJ	0.017QBJ	0.031BJ	0.044QBJ	0.023BJ	0.0085QBJ
PCB-80	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-81	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-82	NC	ng/L	0.038U	0.0054QJ	0.0012QJ	0.038U	0.0062J	0.038U
PCB-83	NC	ng/L	0.038U	0.013BCJ	0.0047QBCJ	0.011BCJ	0.017QBCJ	0.0022QBCJ
PCB-84/92	NC	ng/L	0.038U	0.0081QJ	0.002QJ	0.0083J	0.0088QJ	0.038U
PCB-85/116	NC	ng/L	0.038U	0.0059BCJ	0.0021QBCJ	0.0039CJ	0.0065CJ	0.038U
PCB-86	NC	ng/L	0.014BCJ	0.03BCJ	0.02QBCJ	0.022QBCJ	0.038BC	0.012QBCJ
PCB-87	NC	ng/L	0.014BC86J	0.030BC86J	0.020QBC86J	0.022QBC86J	0.038BC86	0.012QBC86J
PCB-88/91	NC	ng/L	0.038U	0.0039BCJ	0.038U	0.0036CJ	0.038U	0.038U
PCB-89	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-9	NC	ng/L	0.003QBJ	0.0021QBJ	0.0037QBJ	0.0068QBJ	0.0022QBJ	0.0016QBJ
PCB-90/101	NC	ng/L	0.0021QBCJ	0.023BCJ	0.0084QBCJ	0.014QCJ	0.03CJ	0.0035CJ
PCB-92	NC	ng/L	0.038U	0.0033QJ	0.038U	0.038U	0.0042QJ	0.038U
PCB-93	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-94	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-95/98/102	NC	ng/L	0.0029QBJ	0.016QBJ	0.0087BJ	0.019QBJ	0.024QBJ	0.0034BJ
PCB-96	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-97	NC	ng/L	0.014BC86J	0.030BC86J	0.020QBC86J	0.022QBC86J	0.038BC86	0.012QBC86J
Total Di-CB	NC	ng/L	0.059EMPC,U	0.074EMPC,U	0.10EMPC,U	0.20EMPC,U	0.14EMPC,U	0.050EMPC,U
Total Hepta-CB	NC	ng/L	0.0039EMPC,U	0.030EMPC,J	0.012EMPC,U	0.0096EMPC,J	0.038EMPC,J	0.012EMPC,J
Total Hexa-CB	NC	ng/L	0.013EMPC,U	0.13EMPC,J	0.031EMPC,U	0.036EMPC,UJ	0.14EMPC	0.021EMPC,U
Total Mono-CB	NC	ng/L	0.023EMPC,U	0.0095EMPC,U	0.010EMPC,U	0.012EMPC,U	0.016EMPC,U	0.011EMPC,U
Total Nona-CB	NC	ng/L	0.038U	0.038U	0.0061EMPC,J	0.038U	0.048EMPC,J	0.038U
Total Octa-CB	NC	ng/L	0.038U	0.0029EMPC,J	0.0040EMPC,J	0.038U	0.036EMPC,J	0.038U
Total Penta-CB	NC	ng/L	0.025EMPC,U	0.19EMPC,J	0.072EMPC,U	0.12EMPC,J	0.23EMPC	0.032EMPC,U
Total Tetra-CB	NC	ng/L	0.30EMPC	0.48EMPC	0.35EMPC	0.89EMPC	0.43EMPC	0.20EMPC

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Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample
Total Tri-CB	NC	ng/L	0.063EMPC,U	0.32EMPC	0.26EMPC	0.99EMPC	0.37EMPC	0.049EMPC,U

NOTES:
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Total PCBs determined by summing the detected PCB congeners.
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Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
Total PCBs	90(S)	ng/L	0.9127	0.9577	2.8718	0.86988
109-PeCB	NC	ng/L	0.029QBC86J	0.016QBC86J	0.015QBC86J	0.016QBC86J
10-DiCB	NC	ng/L	0.038U	0.0025QBJ	0.0081BJ	0.037U
112-PeCB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
142-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
143-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
160-HxCB	NC	ng/L	0.011QBC129J	0.0062BC129J	0.007QBC129J	0.016BC129J
161-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
162-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
164-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
165-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.0031J	0.0016QJ	0.0076QJ	0.005J
203-OcCB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
21-TrCB C33	NC	ng/L	0.014BCJ	0.011BCJ	0.100BC	0.013BCJ
59-TeCB C62/75	NC	ng/L	0.038U	0.0018QCJ	0.0048QCJ	0.037U
64-TeCB	NC	ng/L	0.01BJ	0.0083QBJ	0.024J	0.0078J
72-TeCB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
98-PeCB C102	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB 101	NC	ng/L	0.010C90J	0.0033QC90J	0.011QC90J	0.010C90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB 115 (BZ)	NC	ng/L	0.013QBC110J	0.0058BC110J	0.013C110J	0.016QC110J
PCB 116 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB 117 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB 118	NC	ng/L	0.0089QBJ	0.0039QBJ	0.013BJ	0.014BJ
PCB 125 (BZ)	NC	ng/L	0.029QBC86J	0.016QBC86J	0.015QBC86J	0.016QBC86J
PCB 13 (BZ)	NC	ng/L	0.0055QBC12J	0.0033QBC12J	0.014QBC12J	0.0028QBC12J
PCB 138	NC	ng/L	0.011QBC129J	0.0062BC129J	0.0070QBC129J	0.016BC129J
PCB 153	NC	ng/L	0.0066QCJ	0.0048QCJ	0.0047QCJ	0.0073CJ
PCB 163 (BZ)	NC	ng/L	0.011QBC129J	0.0062BC129J	0.0070QBC129J	0.016BC129J
PCB 209	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB 28	NC	ng/L	0.020BC20J	0.017BC20J	0.14BC20	0.025BC20J

NOTES:

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Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
PCB 30	NC	ng/L	0.020QBC18J	0.086BC18	0.15C18	0.025C18J
PCB 52	NC	ng/L	0.017BJ	0.029BJ	0.055B	0.014QBJ
PCB 75 (BZ)	NC	ng/L	0.038U	0.0018QC59J	0.0048QC59J	0.037U
PCB 91 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-1	NC	ng/L	0.013QBJ	0.016BJ	0.025BJ	0.0035QBJ
PCB-100	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-103	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-104	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-105	NC	ng/L	0.0055J	0.0015J	0.0058J	0.0079QJ
PCB-106/118	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-107/109	NC	ng/L	0.038U	0.038U	0.038U	0.00058QJ
PCB-108/112	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-11	NC	ng/L	0.038QBJ	0.033QBJ	0.023QBJ	0.034QBJ
PCB-110	NC	ng/L	0.013QBCJ	0.0058BCJ	0.013CJ	0.016QCJ
PCB-111/115	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-113	NC	ng/L	0.010C90J	0.0033QC90J	0.011QC90J	0.010C90J
PCB-114	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-119	NC	ng/L	0.029QBC86J	0.016QBC86J	0.015QBC86J	0.016QBC86J
PCB-12/13	NC	ng/L	0.0055QBCJ	0.0033QBCJ	0.014QBCJ	0.0028QBCJ
PCB-120	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-121	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-122	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-123	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-124	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-126	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-127	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-128/162	NC	ng/L	0.0023QCJ	0.038U	0.038U	0.0018QCJ
PCB-129	NC	ng/L	0.011QBCJ	0.0062BCJ	0.007QBCJ	0.016BCJ
PCB-130	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-131	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-132/161	NC	ng/L	0.038U	0.0017QJ	0.038U	0.0063J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
PCB-133/142	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-134/143	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-135	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-136	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-137	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-139/149	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-14	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-140	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-141	NC	ng/L	0.038U	0.038U	0.038U	0.0025QJ
PCB-144	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-145	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-146/165	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-147	NC	ng/L	0.0088QBCJ	0.0047BCJ	0.0059CJ	0.0093CJ
PCB-148	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-149	NC	ng/L	0.0088QBC147J	0.0047BC147J	0.0059C147J	0.0093C147J
PCB-15	NC	ng/L	0.0095QBJ	0.0087QBJ	0.065QB	0.012QBJ
PCB-150	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-151	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-152	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-153	NC	ng/L	0.038U	0.038U	0.0055QC83J	0.0061C83J
PCB-154	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-155	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-156	NC	ng/L	0.0022CJ	0.038U	0.038U	0.037U
PCB-157	NC	ng/L	0.0022C156J	0.038U	0.038U	0.037U
PCB-158/160	NC	ng/L	0.0012QJ	0.038U	0.038U	0.0015QJ
PCB-159	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-16/32	NC	ng/L	0.0093J	0.031QJ	0.064	0.012J
PCB-166	NC	ng/L	0.0023QC128J	0.038U	0.038U	0.0018QC128J
PCB-167	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-168	NC	ng/L	0.0066QC153J	0.0048QC153J	0.0047QC153J	0.0073C153J
PCB-169	NC	ng/L	0.038U	0.038U	0.038U	0.037U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0042-03 / SB915-IMW-05S / 04/25/2012 / Regular sample	SB915-0042-02 / SB915-IMW-06S / 04/25/2012 / Regular sample	SB915-0049-04 / WB18-MW-14BR / 05/04/2012 / Regular sample	SB915-0049-03 / WB18-MW-14D / 05/04/2012 / Regular sample
PCB-17	NC	ng/L	0.01QJ	0.025QJ	0.059	0.013J
PCB-170	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-171	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-172	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-173	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-174	NC	ng/L	0.038U	0.038U	0.038U	0.0017J
PCB-175	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-176	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-177	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-178	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-179	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-18	NC	ng/L	0.02QBCJ	0.086BC	0.15C	0.025CJ
PCB-180	NC	ng/L	0.0026QCJ	0.0024QCJ	0.038U	0.037U
PCB-181	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-182/187	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-183	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-184	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-185	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-186	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-188	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-189	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-19	NC	ng/L	0.038U	0.023J	0.018J	0.037U
PCB-190	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-191	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-192	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-193	NC	ng/L	0.0026QC180J	0.0024QC180J	0.038U	0.037U
PCB-194	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-195	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-196/203	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-197	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-198	NC	ng/L	0.038U	0.038U	0.038U	0.037U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0042-03 / SB915-IMW-05S / 04/25/2012 / Regular sample	SB915-0042-02 / SB915-IMW-06S / 04/25/2012 / Regular sample	SB915-0049-04 / WB18-MW-14BR / 05/04/2012 / Regular sample	SB915-0049-03 / WB18-MW-14D / 05/04/2012 / Regular sample
PCB-199	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-2	NC	ng/L	0.0077BJ	0.006BJ	0.0028QBJ	0.0031BJ
PCB-20/21/33	NC	ng/L	0.02BCJ	0.017BCJ	0.14BC	0.025BCJ
PCB-200	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-201	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-202	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-204	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-205	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-206	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-207	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-208	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-22	NC	ng/L	0.0088BJ	0.0089BJ	0.056B	0.01BJ
PCB-23	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-24/27	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-25	NC	ng/L	0.038U	0.0017J	0.01QJ	0.0012QJ
PCB-26	NC	ng/L	0.0036QCJ	0.0036CJ	0.026CJ	0.0032QCJ
PCB-27	NC	ng/L	0.038U	0.0048QJ	0.0075QJ	0.037U
PCB-29	NC	ng/L	0.0036QC26J	0.0036C26J	0.026C26J	0.0032QC26J
PCB-3	NC	ng/L	0.0045QBJ	0.0047QBJ	0.0069QBJ	0.0043BJ
PCB-31	NC	ng/L	0.018BJ	0.016BJ	0.13B	0.021BJ
PCB-32	NC	ng/L	0.0067QJ	0.019QJ	0.033QJ	0.0092J
PCB-33	NC	ng/L	0.014BC21J	0.011BC21J	0.10BC21	0.013BC21J
PCB-34	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-35	NC	ng/L	0.038U	0.038U	0.0029J	0.037U
PCB-36	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-37	NC	ng/L	0.0056QBJ	0.0031QBJ	0.036J	0.0071QJ
PCB-38	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-39	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-4/10	NC	ng/L	0.013QBJ	0.04QBJ	0.11B	0.0066QBJ
PCB-40	NC	ng/L	0.01CJ	0.0089CJ	0.031QCJ	0.0093CJ
PCB-42/59	NC	ng/L	0.0042J	0.0034J	0.016QJ	0.003QJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
PCB-41/64/71/72	NC	ng/L	0.01C40J	0.0089C40J	0.031QC40J	0.0093C40J
PCB-43/49	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-44	NC	ng/L	0.021BCJ	0.021QBCJ	0.057BC	0.018BCJ
PCB-45	NC	ng/L	0.0017QCJ	0.013QCJ	0.016CJ	0.0036QCJ
PCB-46	NC	ng/L	0.038U	0.0054J	0.0062J	0.037U
PCB-47	NC	ng/L	0.021BC44J	0.021QBC44J	0.057BC44	0.018BC44J
PCB-48/75	NC	ng/L	0.0034QJ	0.0034QJ	0.014J	0.0028J
PCB-49	NC	ng/L	0.0054QCJ	0.0077CJ	0.03CJ	0.007CJ
PCB-5	NC	ng/L	0.0015QJ	0.038U	0.0066QJ	0.037U
PCB-50	NC	ng/L	0.038U	0.013CJ	0.013CJ	0.0027CJ
PCB-51	NC	ng/L	0.0017QC45J	0.013QC45J	0.016C45J	0.0036QC45J
PCB-53	NC	ng/L	0.038U	0.013C50J	0.013C50J	0.0027C50J
PCB-54	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-55	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-56/60	NC	ng/L	0.0068QJ	0.0033J	0.019J	0.0083J
PCB-57	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-58	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-6	NC	ng/L	0.0081QBJ	0.0062QBJ	0.048Q	0.0046QJ
PCB-61/70	NC	ng/L	0.025QBCJ	0.0091BCJ	0.06BC	0.023BCJ
PCB-62	NC	ng/L	0.038U	0.0018QC59J	0.0048QC59J	0.037U
PCB-63	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-65	NC	ng/L	0.021BC44J	0.021QBC44J	0.057BC44	0.018BC44J
PCB-66	NC	ng/L	0.014BJ	0.0053QBJ	0.033J	0.012J
PCB-67	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-68	NC	ng/L	0.0013QJ	0.038U	0.038U	0.037U
PCB-69	NC	ng/L	0.0054QC49J	0.0077C49J	0.030C49J	0.0070C49J
PCB-7/9	NC	ng/L	0.0041QJ	0.0045QJ	0.012QBJ	0.0032QBJ
PCB-70	NC	ng/L	0.025QBC61J	0.0091BC61J	0.060BC61	0.023BC61J
PCB-71	NC	ng/L	0.010C40J	0.0089C40J	0.031QC40J	0.0093C40J
PCB-73	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-74	NC	ng/L	0.025QBC61J	0.0091BC61J	0.060BC61	0.023BC61J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
PCB-76/66	NC	ng/L	0.025QBC61J	0.0091BC61J	0.060BC61	0.023BC61J
PCB-77	NC	ng/L	0.038U	0.038U	0.0028QJ	0.0013QJ
PCB-78	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-79	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-8	NC	ng/L	0.017QBJ	0.021QBJ	0.22B	0.013QBJ
PCB-80	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-81	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-82	NC	ng/L	0.038U	0.038U	0.038U	0.0025QJ
PCB-83	NC	ng/L	0.038U	0.038U	0.0055QCJ	0.0061CJ
PCB-84/92	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-85/116	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-86	NC	ng/L	0.029QBCJ	0.016QBCJ	0.015QBCJ	0.016QBCJ
PCB-87	NC	ng/L	0.029QBC86J	0.016QBC86J	0.015QBC86J	0.016QBC86J
PCB-88/91	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-89	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-9	NC	ng/L	0.0036QBJ	0.0027QBJ	0.015QBJ	0.0021QBJ
PCB-90/101	NC	ng/L	0.01CJ	0.0033QCJ	0.011QCJ	0.01CJ
PCB-92	NC	ng/L	0.038U	0.038U	0.038U	0.0015QJ
PCB-93	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-94	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-95/98/102	NC	ng/L	0.0065QBJ	0.0063BJ	0.011QJ	0.0078J
PCB-96	NC	ng/L	0.038U	0.038U	0.038U	0.037U
PCB-97	NC	ng/L	0.029QBC86J	0.016QBC86J	0.015QBC86J	0.016QBC86J
Total Di-CB	NC	ng/L	0.099EMPC,U	0.12EMPC,U	0.52EMPC	0.078EMPC,U
Total Hepta-CB	NC	ng/L	0.0026EMPC,J	0.0024EMPC,J	0.038U	0.0041EMPC,J
Total Hexa-CB	NC	ng/L	0.032EMPC,U	0.017EMPC,U	0.018EMPC,U	0.045EMPC,U
Total Mono-CB	NC	ng/L	0.025EMPC,U	0.027EMPC,U	0.035EMPC,U	0.011EMPC,U
Total Nona-CB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
Total Octa-CB	NC	ng/L	0.038U	0.038U	0.038U	0.037U
Total Penta-CB	NC	ng/L	0.073EMPC,U	0.036EMPC,U	0.075EMPC,U	0.082EMPC,U
Total Tetra-CB	NC	ng/L	0.12EMPC,U	0.13EMPC,U	0.39EMPC	0.12EMPC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 12
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0042-03 / SB915-IMW-05S / 04/25/2012 / Regular sample	SB915-0042-02 / SB915-IMW-06S / 04/25/2012 / Regular sample	SB915-0049-04 / WB18-MW-14BR / 05/04/2012 / Regular sample	SB915-0049-03 / WB18-MW-14D / 05/04/2012 / Regular sample
Total Tri-CB	NC	ng/L	0.12EMPC,U	0.25EMPC	0.83EMPC	0.14EMPC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample
ALUMINUM	NC	mg/L	0.2U	0.28B	0.2U	0.2U	0.26B	2B	0.2U
ANTIMONY	0.003(S)	mg/L	0.01U	0.01U	0.01U	[0.0032J]	0.01U	0.01U	0.01U
ARSENIC	0.025(S)	mg/L	0.01U	0.0029J	0.0041J	0.0038J	0.01U	0.0066J	0.01U
BARIUM	1(S)	mg/L	[3.6]	0.34	0.11J	[1.1]	0.044J	[27]	0.056J
BERYLLIUM	0.003(G)	mg/L	0.00097J	0.004U	0.004U	0.004U	0.004U	0.004U	0.004U
BORON	1(S)	mg/L	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
CADMIUM	0.005(S)	mg/L	0.005U	0.00034J	0.00021J	0.00042J	0.005U	0.0026J	0.005U
CALCIUM	NC	mg/L	7700B	130B	1400B	4200B	170B	17000B	70B
CHROMIUM	0.05(S)	mg/L	0.0044J	0.0044J	0.005U	0.025U	0.0023J	0.0066	0.0056
COBALT	NC	mg/L	0.0071J	0.034J	0.05U	0.01J	0.00067J	0.023J	0.00045J
COPPER	0.2(S)	mg/L	0.041J	0.18	0.025U	0.025U	0.025U	0.014J	0.025U
CYANIDE	0.2(S)	mg/L	[0.24]	0.0017J	0.01U	0.01U	0.0019J	0.041B	0.002J
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0069J	0.001UJ	0.01U	0.01UJ	0.001UJ	0.0091J	0.001U
IRON	0.3(S)	mg/L	[4.1B]	[5.5]	[8.1]	[16]	0.23	[43]	0.19
LEAD	0.025(S)	mg/L	0.15U	0.0022J	0.003U	0.015U	0.003U	0.15U	0.003U
MAGNESIUM	35(G)	mg/L	[60J]	32	[47]	[250]	[36]	[500]	8.1
MANGANESE	0.3(S)	mg/L	[13]	[12]	[1.2]	[21]	0.15	[9]	0.1
MERCURY	0.0007(S)	mg/L	2.7e-006J	0.00013	0.00000054	4.3e-007J	0.00000088	0.00004	0.0000017
NICKEL	0.1(S)	mg/L	0.012J	0.032J	0.04U	0.032J	0.0026J	0.04	0.0068J
POTASSIUM	NC	mg/L	130J	1.6J	100J	44J	3.4J	33J	7.5J
SELENIUM	0.01(S)	mg/L	0.005U	0.005U	0.005U	0.025U	0.005U	0.025U	0.005U
SILVER	0.05(S)	mg/L	0.005U	0.005U	0.005U	0.025U	0.005U	0.005U	0.00073J
SODIUM	20(S)	mg/L	[4900B]	[32]	[1900]	[3900]	[73]	[13000]	[91]
THALLIUM	0.0005(G)	mg/L	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
TIN	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
VANADIUM	NC	mg/L	0.05U	0.0026J	0.0023J	0.0046J	0.0039J	0.0034J	0.0024J
ZINC	2(G)	mg/L	0.0081J	0.073B	0.02U	0.02U	0.02U	0.02U	0.02U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
ALUMINUM	NC	mg/L	0.37B	0.2U	2U	2U	0.25B	0.35B
ANTIMONY	0.003(S)	mg/L	0.01U	0.01U	0.1U	0.1U	0.01U	0.01U
ARSENIC	0.025(S)	mg/L	0.0079J	0.01U	0.1U	0.1U	0.0067J	0.0064J
BARIUM	1(S)	mg/L	[10]	0.1J	0.044J	0.11J	0.078J	[5.5]
BERYLLIUM	0.003(G)	mg/L	0.00044J	0.004U	0.04U	0.04U	0.004U	0.004U
BORON	1(S)	mg/L	0.023J	0.027J	[2.8]	0.33J	0.12J	0.082J
CADMIUM	0.005(S)	mg/L	0.005U	0.005U	0.05U	0.05U	0.005U	0.00014J
CALCIUM	NC	mg/L	5000B	140B	2500B	10000B	1400B	8600B
CHROMIUM	0.05(S)	mg/L	0.015	0.0018J	0.05U	0.05U	0.0007J	0.0018J
COBALT	NC	mg/L	0.05U	0.05U	0.5U	0.5U	0.05U	0.017J
COPPER	0.2(S)	mg/L	0.029	0.022J	0.094J	0.25U	0.025U	0.035
CYANIDE	0.2(S)	mg/L	0.011	0.01U	0.01U	0.013J	0.01U	0.021B
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.006J	0.0066J	0.01U	0.01U	0.01U	0.01U
IRON	0.3(S)	mg/L	[16]	0.1U	[16]	[17]	[4.6]	[8.1]
LEAD	0.025(S)	mg/L	0.075U	0.003U	0.03U	0.03U	0.003U	0.03U
MAGNESIUM	35(G)	mg/L	[290]	29	[470]	[430]	[69]	[560]
MANGANESE	0.3(S)	mg/L	[2.9]	[0.36]	[2.9]	[4.6]	[0.72]	[20]
MERCURY	0.0007(S)	mg/L	1.3e-006J	2.9e-006J	5e-007U	5e-007U	8.9e-007J	1.7e-006J
NICKEL	0.1(S)	mg/L	0.0092J	0.0018J	0.4U	0.4U	0.04U	0.021J
POTASSIUM	NC	mg/L	40J	3.3J	600J	350J	33J	21
SELENIUM	0.01(S)	mg/L	0.005U	0.005U	0.05U	0.05U	0.005U	0.005U
SILVER	0.05(S)	mg/L	0.005U	0.005U	0.05U	0.05U	0.005U	0.005U
SODIUM	20(S)	mg/L	[3900]	[98]	[64000]	[30000]	[920]	[6000]
THALLIUM	0.0005(G)	mg/L	0.01U	0.01U	0.1U	0.1U	0.01U	0.01U
TIN	NC	mg/L	0.1U	0.1U	1U	1U	0.1U	0.1U
VANADIUM	NC	mg/L	0.0053J	0.0027J	0.034J	0.031J	0.0049J	0.0068J
ZINC	2(G)	mg/L	0.02U	0.02U	0.2B	0.2U	0.02U	0.025B

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose	Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
ALUMINUM	NC		mg/L	0.2U	0.2U	0.2B	1.5B	0.48B	0.2U
ANTIMONY	0.003(S)		mg/L	0.01U	0.01U	0.01U	0.01U	0.0015J	0.01U
ARSENIC	0.025(S)		mg/L	0.014	0.0049J	0.01U	0.0028J	0.01U	0.0044J
BARIUM	1(S)		mg/L	0.0078J	0.061J	0.039J	0.29	[1.3]	0.57
BERYLLIUM	0.003(G)		mg/L	0.004U	0.004U	0.004U	0.00041J	0.004U	0.004U
BORON	1(S)		mg/L	0.89	0.1J	0.2U	0.62B	0.2U	0.2U
CADMIUM	0.005(S)		mg/L	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
CALCIUM	NC		mg/L	500B	130B	220B	2200B	4600B	810B
CHROMIUM	0.05(S)		mg/L	0.0059	0.0042J	0.018	0.016	0.005U	0.005U
COBALT	NC		mg/L	0.05U	0.05U	0.00084J	0.00089J	0.05U	0.05U
COPPER	0.2(S)		mg/L	0.025UJ	0.025UJ	0.025U	0.0088J	0.025U	0.025UJ
CYANIDE	0.2(S)		mg/L	0.01U	0.01U	0.0095J	0.0049J	0.01U	0.004J
HEXAVALENT CHROMIUM	0.05(S)		mg/L	0.001U	0.001U	0.01U	0.01U	0.0079J	0.01U
IRON	0.3(S)		mg/L	[1.6]	0.21	[0.32]	[3.8]	[0.45B]	[22B]
LEAD	0.025(S)		mg/L	0.003U	0.003U	0.003U	0.003U	0.15U	0.003U
MAGNESIUM	35(G)		mg/L	[54J]	34J	20	[85]	0.3J	11J
MANGANESE	0.3(S)		mg/L	0.26	0.18	0.019	[0.37]	0.006J	[2.3]
MERCURY	0.0007(S)		mg/L	4.2e-007J	7.8e-007J	9.3e-007J	4.5e-006J	8.1e-005J	9.3e-007J
NICKEL	0.1(S)		mg/L	0.004J	0.0047J	0.016J	0.013J	0.011J	0.04U
POTASSIUM	NC		mg/L	26J	6.9J	9.5J	110J	270	43J
SELENIUM	0.01(S)		mg/L	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
SILVER	0.05(S)		mg/L	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
SODIUM	20(S)		mg/L	[89B]	[53B]	[61B]	[1300B]	[2500]	[480B]
THALLIUM	0.0005(G)		mg/L	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
TIN	NC		mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
VANADIUM	NC		mg/L	0.0024J	0.05U	0.05U	0.0059J	0.05U	0.05U
ZINC	2(G)		mg/L	0.0087J	0.02U	0.02U	0.02U	0.0031J	0.02U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
ALUMINUM	NC	mg/L	2U	2U	0.2U	0.46B	0.34B	0.39B
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.01U	0.01U	0.01U	0.01U
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.0083J	0.01U	0.018	0.0048J
BARIUM	1(S)	mg/L	0.12J	[4.3]	0.88	[1.9]	[1.3]	0.11J
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.0014J	0.00039J	0.004U	0.004U
BORON	1(S)	mg/L	[23]	[1.1J]	0.1J	0.047J	0.2U	0.2U
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.00087J	0.00033J	0.00082J	0.005U
CALCIUM	NC	mg/L	18000B	19000B	13000B	2800B	13000B	1400B
CHROMIUM	0.05(S)	mg/L	0.023J	0.05U	0.0068	0.0034J	0.005U	0.005U
COBALT	NC	mg/L	0.5U	0.5U	0.05U	0.05U	0.0051J	0.00064J
COPPER	0.2(S)	mg/L	0.052J	0.25U	0.025U	0.025U	0.014J	0.025U
CYANIDE	0.2(S)	mg/L	0.01U	0.014	0.014	0.0046J	0.022B	0.01U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0058J	0.0057J	0.011	0.01U	0.01R	0.01R
IRON	0.3(S)	mg/L	[91]	[84]	[65]	[73]	[42B]	0.26B
LEAD	0.025(S)	mg/L	0.15U	0.15U	0.15U	0.15U	0.15U	0.003U
MAGNESIUM	35(G)	mg/L	[3600]	[150]	[190]	[68]	[79]	1.3J
MANGANESE	0.3(S)	mg/L	[25]	[7.4]	[5.1]	[3.1]	[15]	[0.62]
MERCURY	0.0007(S)	mg/L	5e-007U	1.2e-006J	5e-007U	5e-007R	8.7e-007J	4e-005J
NICKEL	0.1(S)	mg/L	0.016J	0.4U	0.008J	0.0029J	0.0086J	0.0058J
POTASSIUM	NC	mg/L	3500	280J	250J	48J	230	88
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.25U	0.25U	0.25U	0.005U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.005U	0.005U	0.005U	0.005U
SODIUM	20(S)	mg/L	[36000B]	[16000B]	[9200B]	[1800B]	[8600]	[640]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.01U	0.01U	0.01U	0.01U
TIN	NC	mg/L	1U	1U	0.1U	0.1U	0.1U	0.1U
VANADIUM	NC	mg/L	0.064J	0.5U	0.05U	0.05U	0.05U	0.0053J
ZINC	2(G)	mg/L	0.09J	0.034J	0.024	0.02U	0.043	0.0028J

NOTES:

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Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample
ALUMINUM	NC	mg/L	0.2U	0.074J	0.13J	0.74	0.2U	0.15J
ANTIMONY	0.003(S)	mg/L	0.01U	0.01U	0.0014J	0.01U	0.01U	0.01U
ARSENIC	0.025(S)	mg/L	0.01U	0.01	0.01U	0.01U	0.0074J	0.0028J
BARIUM	1(S)	mg/L	0.65	0.085J	0.13J	0.23	0.03J	[4.5]
BERYLLIUM	0.003(G)	mg/L	0.004U	0.004U	0.004U	0.004U	0.004U	0.00089J
BORON	1(S)	mg/L	0.2U	[1.4B]	0.2U	0.2U	0.23	0.2U
CADMIUM	0.005(S)	mg/L	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
CALCIUM	NC	mg/L	3700B	3800B	630B	1100B	1400B	6200B
CHROMIUM	0.05(S)	mg/L	0.005U	0.003J	0.0058	0.00096J	0.00072J	0.0008J
COBALT	NC	mg/L	0.00084J	0.05U	0.0038J	0.0029J	0.05U	0.0019J
COPPER	0.2(S)	mg/L	0.025U	0.029	0.0082J	0.0039J	0.0093J	0.025U
CYANIDE	0.2(S)	mg/L	0.01U	0.01U	0.01U	0.01U	0.0015J	0.01U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.01R	0.01U	0.01U	0.01U	0.01R	0.01U
IRON	0.3(S)	mg/L	[6.6B]	[14]	[0.88]	[4.8]	[6.4]	[8.7]
LEAD	0.025(S)	mg/L	0.15U	0.075U	0.003U	0.0015J	0.003U	0.03U
MAGNESIUM	35(G)	mg/L	[44]	[320]	[110]	[160]	[50]	[340]
MANGANESE	0.3(S)	mg/L	[0.48]	[1.7]	[1.6]	[1.1]	[0.48]	[4.1]
MERCURY	0.0007(S)	mg/L	7.4e-006J	5e-007U	1.7e-006J	2.5e-006B	5e-007U	1.9e-006J
NICKEL	0.1(S)	mg/L	0.0061J	0.0024J	0.007J	0.0035J	0.04U	0.0045J
POTASSIUM	NC	mg/L	110	350J	8.1J	11J	62J	310J
SELENIUM	0.01(S)	mg/L	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
SILVER	0.05(S)	mg/L	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
SODIUM	20(S)	mg/L	[2000]	[14000]	[510]	[1100]	[1100]	[6600]
THALLIUM	0.0005(G)	mg/L	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
TIN	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
VANADIUM	NC	mg/L	0.0029J	0.0056J	0.0041J	0.007J	0.0028J	0.0058J
ZINC	2(G)	mg/L	0.008J	0.02U	0.02U	0.02U	0.02U	0.02U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample
ALUMINUM	NC	mg/L	2U	0.2U	0.2U	0.52B	0.2U	3B	0.2U
ANTIMONY	0.003(S)	mg/L	0.1U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
ARSENIC	0.025(S)	mg/L	0.1U	0.01U	0.01U	0.0034J	0.0027J	0.0045J	0.01U
BARIUM	1(S)	mg/L	0.12J	0.53	0.3	[13]	[3.9]	[2.9]	0.34
BERYLLIUM	0.003(G)	mg/L	0.04U	0.004U	0.004U	0.0016J	0.0016J	0.001J	0.004U
BORON	1(S)	mg/L	0.045J	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
CADMIUM	0.005(S)	mg/L	0.05U	0.005UJ	0.005UJ	0.0011J	0.005U	0.005U	0.005U
CALCIUM	NC	mg/L	540	840B	600B	15000B	16000B	6600B	1200B
CHROMIUM	0.05(S)	mg/L	0.013J	0.005U	0.005U	0.011	0.018	0.04	0.0028J
COBALT	NC	mg/L	0.5U	0.0017J	0.0022J	0.05U	0.05U	0.00051J	0.05U
COPPER	0.2(S)	mg/L	0.25U	0.019J	0.012J	0.025UJ	0.062J	0.028J	0.0068J
CYANIDE	0.2(S)	mg/L	0.01U	0.01	0.0055J	0.0038J	0.035	0.039	0.015J
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.01U	0.006J	0.01U	0.0088J	0.0091J	0.0065J	0.001UJ
IRON	0.3(S)	mg/L	[5.9J]	0.1U	0.1UJ	[96]	0.15	[2.8B]	0.1U
LEAD	0.025(S)	mg/L	0.03U	0.0016J	0.003U	0.03U	[0.028]	0.003U	0.003U
MAGNESIUM	35(G)	mg/L	[79]	0.051J	5U	[150J]	0.15J	6.2J	0.067J
MANGANESE	0.3(S)	mg/L	0.1J	0.00076J	0.015U	[3.2]	0.0036J	0.11	0.0014J
MERCURY	0.0007(S)	mg/L	1.4e-006J	0.000014	0.000036	1.7e-005J	0.00011J	6.5e-005J	6.3e-007J
NICKEL	0.1(S)	mg/L	0.022J	0.014J	0.0076J	0.0062J	0.04	0.025J	0.0027J
POTASSIUM	NC	mg/L	50U	10	4.8J	260J	460J	320J	28
SELENIUM	0.01(S)	mg/L	0.05U	0.005U	0.005U	0.05U	0.005U	0.005U	0.005U
SILVER	0.05(S)	mg/L	0.05U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
SODIUM	20(S)	mg/L	[370]	[190]	19	[10000]	[10000]	[3900B]	[100J]
THALLIUM	0.0005(G)	mg/L	0.1U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
TIN	NC	mg/L	1U	0.1U	0.1U	0.1U	0.1U	0.0032J	0.1U
VANADIUM	NC	mg/L	0.5U	0.05U	0.05U	0.05U	0.05U	0.0056J	0.05U
ZINC	2(G)	mg/L	0.2U	0.013J	0.02U	0.0037J	0.19	0.047	0.02U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample
ALUMINUM	NC	mg/L	0.2U	2U	0.2U	0.2U	0.9B	0.2U	0.2U
ANTIMONY	0.003(S)	mg/L	0.0013J	0.1U	0.01U	0.01U	0.01U	0.0019J	0.01U
ARSENIC	0.025(S)	mg/L	0.012	0.1U	0.012	0.0071J	0.01U	0.019	0.0034J
BARIUM	1(S)	mg/L	0.028J	[3.7]	0.74	0.87	[12]	[1.6]	[36]
BERYLLIUM	0.003(G)	mg/L	0.004U	0.04U	0.00031J	0.00027J	0.0016J	0.00035J	0.0014J
BORON	1(S)	mg/L	0.2U	2U	0.2U	0.2U	0.2U	0.2U	0.2U
CADMIUM	0.005(S)	mg/L	0.005U	0.05U	0.005U	0.005U	0.00081J	0.005U	0.0013J
CALCIUM	NC	mg/L	240B	22000B	3200B	1800B	15000B	3300B	18000B
CHROMIUM	0.05(S)	mg/L	0.0058B	0.05U	0.0034J	0.0036J	0.01	0.005U	0.0017J
COBALT	NC	mg/L	0.05U	0.5U	0.05U	0.05U	0.05U	0.05U	0.05U
COPPER	0.2(S)	mg/L	0.025U	0.25U	0.0034J	0.0062J	0.0083J	0.025U	0.056
CYANIDE	0.2(S)	mg/L	0.01U	0.052B	0.0058J	0.0026J	0.012	0.0021J	0.021J
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.01R	0.01R	0.0057J	0.01U	0.01	0.01U	0.0092J
IRON	0.3(S)	mg/L	[0.96B]	1U	[13]	[35]	[60]	[22]	[80B]
LEAD	0.025(S)	mg/L	0.003U	0.3U	0.075U	0.003U	0.075U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	28	0.24J	[130]	[49]	[120]	[81]	[110]
MANGANESE	0.3(S)	mg/L	0.076	0.15U	[0.83]	[1.9]	[2.3]	[0.85]	[2.9]
MERCURY	0.0007(S)	mg/L	1.4e-005J	[0.0014J]	5e-007U	2.4e-006J	5e-007U	1.4e-006J	2.7e-007J
NICKEL	0.1(S)	mg/L	0.0037J	0.1J	0.0036J	0.0032J	0.0087J	0.0017J	0.04U
POTASSIUM	NC	mg/L	10	610	160J	57J	280J	130J	270
SELENIUM	0.01(S)	mg/L	0.005U	0.05U	0.005U	0.005U	0.13U	0.005U	0.05U
SILVER	0.05(S)	mg/L	0.005U	0.05U	0.005U	0.005U	0.005U	0.005U	0.005U
SODIUM	20(S)	mg/L	[160]	[14000]	[2200B]	[1100B]	[10000B]	[2100B]	[11000]
THALLIUM	0.0005(G)	mg/L	0.01U	0.1U	0.01U	0.01U	0.01U	0.01U	0.01U
TIN	NC	mg/L	0.1U	1U	0.1U	0.1U	0.0044J	0.1U	0.0036J
VANADIUM	NC	mg/L	0.002J	0.5U	0.0039J	0.05U	0.05U	0.05U	0.05U
ZINC	2(G)	mg/L	0.0096J	0.2U	0.02U	0.02U	0.02U	0.02U	0.02U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0044-04 SB915-MW-87BR 05/07/2012 Regular sample	SCA-0044-03 SB915-MW-87I 05/07/2012 Regular sample	SCA-0044-01 SB915-MW-87S 05/07/2012 Regular sample	SCA-0045-04 SB915-MW-88BR 05/08/2012 Regular sample	SCA-0045-03 SB915-MW-88D 05/08/2012 Regular sample	SCA-0045-02 SB915-MW-88I 05/08/2012 Regular sample	SCA-0045-01 SB915-MW-88S 05/08/2012 Regular sample
ALUMINUM	NC	mg/L	10U	0.289	0.2U	10U	2U	0.6U	0.54
ANTIMONY	0.003(S)	mg/L	0.3U	0.006U	0.006U	0.3U	0.06U	0.0024J	0.006U
ARSENIC	0.025(S)	mg/L	0.15U	0.003U	0.003U	0.15U	0.03U	0.009U	0.003U
BARIUM	1(S)	mg/L	0.296	0.027	0.092	0.24	[6.11]	[6.43]	0.224
BERYLLIUM	0.003(G)	mg/L	0.05U	0.001U	0.001U	0.05U	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	[1.05J]	0.0535J	0.0172J	[2.79J]	0.0527J	0.0479J	0.0396J
CADMIUM	0.005(S)	mg/L	0.05U	0.001U	0.001U	0.05U	0.01U	0.001U	0.001U
CALCIUM	NC	mg/L	10500	343	113	9320	3750	1640	401
CHROMIUM	0.05(S)	mg/L	[0.216]	0.005	0.0071	[0.195J]	0.04U	0.0039J	0.0116
COBALT	NC	mg/L	0.2U	0.004U	0.004U	0.2U	0.04U	0.001J	0.0018J
COPPER	0.2(S)	mg/L	0.134J	0.0044J	0.0023J	0.155J	0.0242J	0.0077J	0.0032J
CYANIDE	0.2(S)	mg/L	0.010UJ	0.027J	0.0087J	0.0053J	0.026J	0.010U	0.010UJ
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055UJ	0.0055UJ	0.0064UJ	0.0055R	0.0055R	0.0055U	0.0055R
IRON	0.3(S)	mg/L	[3.56J]	[0.996J]	0.133J	[11.1J]	[16.9J]	[8.43J]	[2.27J]
LEAD	0.025(S)	mg/L	0.15U	0.003U	0.003U	0.15U	0.03U	0.009U	0.003U
MAGNESIUM	35(G)	mg/L	[912]	[50.8]	16.8	[746]	[241]	[134]	[39.2]
MANGANESE	0.3(S)	mg/L	[5.76]	0.0917	0.0055J	[6.24]	[1.69]	[1.93]	[0.452]
MERCURY	0.0007(S)	mg/L	4.7e-006J	1.3e-006J	3.6e-006J	1.1e-006J	1.2e-006J	4.7e-006J	2.5e-006J
NICKEL	0.1(S)	mg/L	0.5UJ	0.0014J	0.002J	0.5UJ	0.1UJ	0.01U	0.0061J
POTASSIUM	NC	mg/L	416J	12.2J	7.68J	405J	197J	106J	18.3J
SELENIUM	0.01(S)	mg/L	0.5U	0.01U	0.01U	0.5U	0.1U	0.01U	0.01U
SILVER	0.05(S)	mg/L	0.15R	0.003R	0.003R	0.15U	0.03R	0.003U	0.003U
SODIUM	20(S)	mg/L	[9290]	[378]	[47.6]	[7140]	[2000]	[756]	[192]
THALLIUM	0.0005(G)	mg/L	0.5U	[0.003J]	0.01U	0.5U	0.1U	0.03U	0.01U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.25U	0.005U	0.005U	0.25U	0.05U	0.0028J	0.0015J
ZINC	2(G)	mg/L	0.5U	0.0135R	0.0166R	0.5U	0.1U	0.0211J	0.0142R

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SCA-0044-02 SB915-WB-02L 05/07/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample
ALUMINUM	NC	mg/L		0.9B	0.2U	0.2U	0.95	10U	0.2U	0.021J
ANTIMONY	0.003(S)	mg/L		0.01U	0.01U	0.01U	[0.003J]	0.3U	0.01U	0.01U
ARSENIC	0.025(S)	mg/L		0.01U	0.01U	0.01U	0.0088J	0.15U	0.0092J	0.01U
BARIUM	1(S)	mg/L		[2.4]	[2.6]	0.48	0.014J	0.229	0.14J	[1.4]
BERYLLIUM	0.003(G)	mg/L		0.00083J	0.0011J	0.004U	0.004U	0.05U	0.00084J	0.00047J
BORON	1(S)	mg/L		0.2U	0.2U	0.2U	0.2U	0.0915J	0.31B	0.2U
CADMIUM	0.005(S)	mg/L		0.005UJ	0.00016J	0.00013J	0.005U	0.05U	0.0009J	0.005U
CALCIUM	NC	mg/L		7000B	11000B	1100B	270B	15600	7800B	4300B
CHROMIUM	0.05(S)	mg/L		0.016	0.005U	0.0021J	0.006	0.2U	0.005U	0.0015J
COBALT	NC	mg/L		0.05U	0.05U	0.05U	0.00063J	0.2U	0.018J	0.05U
COPPER	0.2(S)	mg/L		0.089	0.025U	0.025U	0.025U	0.187J	0.025U	0.025U
CYANIDE	0.2(S)	mg/L		0.011	0.023	0.0098J	0.01U	0.010UJ	0.0029J	0.01U
HEXAVALENT CHROMIUM	0.05(S)	mg/L		0.01UJ	0.01UJ	0.01UJ	0.001U	0.0055UJ	0.01U	0.001U
IRON	0.3(S)	mg/L		[0.62J]	0.11J	0.1U	[2.7]	[23.1J]	[39J]	[30]
LEAD	0.025(S)	mg/L		0.075U	0.075U	0.003U	0.003U	0.15U	0.075U	0.075U
MAGNESIUM	35(G)	mg/L		1.8J	0.24J	0.032J	[50]	[854]	[350]	[110]
MANGANESE	0.3(S)	mg/L		0.033	0.0039J	0.015U	0.12	[2.6]	[2.5]	[1.9]
MERCURY	0.0007(S)	mg/L		[0.00085]	0.00014	0.00042	4.1e-006J	1.2e-006J	2.4e-007J	5.2e-007J
NICKEL	0.1(S)	mg/L		0.012J	0.004J	0.04U	0.0046J	0.5U	0.007J	0.04U
POTASSIUM	NC	mg/L		190	340	23	3.1J	139J	100	190J
SELENIUM	0.01(S)	mg/L		0.005U	0.13U	0.005U	0.005U	0.5U	0.005U	0.005U
SILVER	0.05(S)	mg/L		0.005U	0.005U	0.005U	0.005U	0.15U	0.005U	0.005U
SODIUM	20(S)	mg/L		[4100]	[6000]	[130]	[35]	[9370]	[5200]	[3800]
THALLIUM	0.0005(G)	mg/L		0.01U	0.01U	0.01U	0.01U	0.5U	0.01U	0.01U
TIN	NC	mg/L		0.1U	0.1U	0.1U	0.1U	NA	0.0029J	0.1U
VANADIUM	NC	mg/L		0.05U	0.05U	0.05U	0.0051J	0.25U	0.0051J	0.0025J
ZINC	2(G)	mg/L		0.023	0.0049J	0.0035J	0.026B	0.5U	0.049	0.02U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose	Units	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample
ALUMINUM	NC		mg/L	2U	0.2U	0.2U	0.2U	2U	0.2U	1.1B
ANTIMONY	0.003(S)		mg/L	0.1U	0.0014J	0.0021J	0.01U	0.1U	0.01U	0.01U
ARSENIC	0.025(S)		mg/L	0.027U	0.01U	0.0054J	0.0047J	0.1U	0.0077J	0.0067J
BARIUM	1(S)		mg/L	0.071J	[1.3]	[40]	[3.4]	0.064J	0.045J	0.11J
BERYLLIUM	0.003(G)		mg/L	0.04U	0.004U	0.0015J	0.0012J	0.04U	0.00036J	0.0014J
BORON	1(S)		mg/L	[5.8B]	0.2U	0.54B	0.2U	2U	0.2U	0.53B
CADMIUM	0.005(S)		mg/L	0.05U	0.005U	0.00082J	0.005U	0.05U	0.005U	0.005U
CALCIUM	NC		mg/L	8000	3100	20000B	8100B	2400B	3000B	11000B
CHROMIUM	0.05(S)		mg/L	0.049J	0.005U	0.005U	0.0031J	0.015J	0.0012J	0.0053
COBALT	NC		mg/L	0.5U	0.05U	0.05U	0.05U	0.5U	0.0025J	0.005J
COPPER	0.2(S)		mg/L	0.25U	0.0095J	0.011J	0.013J	0.044J	0.021J	0.058J
CYANIDE	0.2(S)		mg/L	0.01U	0.0034J	0.019J	0.01U	0.01U	0.01U	0.029
HEXAVALENT CHROMIUM	0.05(S)		mg/L	0.014J	0.01U	0.011J	0.0086J	0.0059J	0.006J	0.0074J
IRON	0.3(S)		mg/L	[30]	0.1U	[53B]	0.17B	[0.96J]	[18B]	[31]
LEAD	0.025(S)		mg/L	0.013U	0.075U	0.03U	0.15U	0.03U	0.15U	0.03U
MAGNESIUM	35(G)		mg/L	[1500]	0.18J	[100]	0.99J	[450J]	[140J]	[170J]
MANGANESE	0.3(S)		mg/L	[9.9]	0.015U	[6]	0.0092J	[3.4]	[0.58]	[2.6]
MERCURY	0.0007(S)		mg/L	1.2e-007U	0.0000015	1.6e-007J	1.9e-005J	9.8e-007J	6.2e-007J	2e-006J
NICKEL	0.1(S)		mg/L	0.036J	0.0083J	0.04U	0.0061J	0.018J	0.0054J	0.0074J
POTASSIUM	NC		mg/L	2100J	190J	280	3800J	500J	75J	110J
SELENIUM	0.01(S)		mg/L	0.05U	0.005U	0.05U	0.005U	0.05U	0.005U	0.005U
SILVER	0.05(S)		mg/L	0.0094J	0.005U	0.005U	0.005U	0.05U	0.005U	0.005U
SODIUM	20(S)		mg/L	[65000]	[1500]	[13000J]	[7400B]	[57000B]	[3100B]	[9200]
THALLIUM	0.0005(G)		mg/L	0.024U	0.01U	0.01U	0.01U	0.1U	0.01U	0.01U
TIN	NC		mg/L	0.032J	0.1U	0.0099J	0.0022J	1U	0.1U	0.0026J
VANADIUM	NC		mg/L	0.058J	0.0052J	0.05U	0.05U	0.036J	0.0034J	0.0033J
ZINC	2(G)		mg/L	0.053J	0.02U	0.027B	0.0039J	0.044J	0.01J	0.029

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose	Units	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
ALUMINUM	NC		mg/L	0.2U	0.9B	1.6B	0.2U	0.33B	0.2U	0.73B
ANTIMONY	0.003(S)		mg/L	0.01U	0.01U	0.01U	0.01U	0.0018J	0.01U	0.01U
ARSENIC	0.025(S)		mg/L	0.01U	0.01U	0.0048J	0.0032J	0.01U	0.0084J	0.0056J
BARIUM	1(S)		mg/L	[1]	0.18J	[3.6]	[1.2]	[4.3]	0.54	0.67
BERYLLIUM	0.003(G)		mg/L	0.004U	0.0015J	0.00074J	0.00027J	0.001J	0.004U	0.00031J
BORON	1(S)		mg/L	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U
CADMIUM	0.005(S)		mg/L	0.005U	0.0005J	0.005U	0.005U	0.0012J	0.005U	0.005U
CALCIUM	NC		mg/L	3200B	14000B	5500B	3200B	7700B	1300B	3100B
CHROMIUM	0.05(S)		mg/L	0.005U	0.011	0.0029J	0.0093	0.0039J	0.005U	0.005U
COBALT	NC		mg/L	0.05U	0.0026J	0.05U	0.0044J	0.05U	0.05U	0.05U
COPPER	0.2(S)		mg/L	0.025UJ	0.11J	0.025UJ	0.042J	0.0047J	0.025UJ	0.025UJ
CYANIDE	0.2(S)		mg/L	0.0042J	0.0016J	0.0043J	0.0035J	0.026	0.0092J	0.0032J
HEXAVALENT CHROMIUM	0.05(S)		mg/L	0.02U	0.017J	0.007J	0.0068J	0.0093J	0.01U	0.01U
IRON	0.3(S)		mg/L	0.27	[57]	[51]	[5.3]	[140]	[6.6]	0.075J
LEAD	0.025(S)		mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.003U	0.03U
MAGNESIUM	35(G)		mg/L	0.35J	[170J]	[130J]	[92J]	[74J]	5.9J	5UJ
MANGANESE	0.3(S)		mg/L	0.029	[2.4]	[5.7]	[4.1]	[12]	[2.5]	0.015U
MERCURY	0.0007(S)		mg/L	1.5e-005J	7.4e-007J	2.2e-006J	1.6e-006J	1.2e-006J	1.8e-006J	4.9e-005J
NICKEL	0.1(S)		mg/L	0.012J	0.0073J	0.0053J	0.016J	0.0033J	0.04U	0.012J
POTASSIUM	NC		mg/L	170J	170J	190J	56J	200J	80J	170J
SELENIUM	0.01(S)		mg/L	0.005U	0.05U	0.005U	0.005U	0.05U	0.005U	0.005U
SILVER	0.05(S)		mg/L	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U
SODIUM	20(S)		mg/L	[1600]	[11000]	[3400]	[2100]	[5000]	[620]	[1600]
THALLIUM	0.0005(G)		mg/L	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
TIN	NC		mg/L	0.0021J	0.0035J	0.1U	0.1U	0.1U	0.1U	0.1U
VANADIUM	NC		mg/L	0.05U	0.05U	0.0052J	0.0034J	0.05U	0.05U	0.05U
ZINC	2(G)		mg/L	0.02U	0.019J	0.02U	0.023	0.02U	0.02U	0.02U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample	SCA-0048-06 SB915-MW-100S 05/11/2012 Regular sample	SCA-0047-05 SB915-MW-101S 05/10/2012 Regular sample	SCA-0049-05 SB915-MW-102S 05/14/2012 Regular sample
ALUMINUM	NC	mg/L	0.2U	2U	0.23B	0.6U	0.37	0.0668J
ANTIMONY	0.003(S)	mg/L	0.01U	0.1U	0.01U	0.006U	0.006U	0.006U
ARSENIC	0.025(S)	mg/L	0.01U	[0.028J]	0.011	0.0052	0.0024J	0.0029J
BARIUM	1(S)	mg/L	0.89	0.073J	0.72	[2.1]	[1.24]	0.1
BERYLLIUM	0.003(G)	mg/L	0.004U	0.04U	0.004U	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	0.2U	[3.4B]	0.65B	0.112J	0.134J	0.0568J
CADMIUM	0.005(S)	mg/L	0.005U	0.05U	0.00086J	0.001U	0.001U	0.001U
CALCIUM	NC	mg/L	2400B	3900B	10000B	1520	1230	646
CHROMIUM	0.05(S)	mg/L	0.005U	0.05U	0.005U	0.0023J	0.012U	0.004U
COBALT	NC	mg/L	0.05U	0.0071J	0.0027J	0.0027J	0.004U	0.0022J
COPPER	0.2(S)	mg/L	0.025UJ	0.25U	0.14	0.003J	0.0032J	0.0074J
CYANIDE	0.2(S)	mg/L	0.0085J	0.01U	0.01U	0.010U	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0064J	0.01R	0.0076J	0.0055U	0.0044J	0.0055U
IRON	0.3(S)	mg/L	0.041J	[7.1B]	[41B]	[0.722J]	[0.841J]	[3.95]
LEAD	0.025(S)	mg/L	0.003U	0.03U	0.3U	0.009U	0.0053J	0.003U
MAGNESIUM	35(G)	mg/L	0.44J	[490]	[100]	[188]	[124]	[36.9J]
MANGANESE	0.3(S)	mg/L	0.0024J	[2.7]	[2.8]	0.079	[0.657]	[0.686J]
MERCURY	0.0007(S)	mg/L	8.7e-006J	5e-007R	1.7e-006J	5.2e-007R	1.3e-006J	5.5e-007R
NICKEL	0.1(S)	mg/L	0.011J	0.4U	0.008J	0.03U	0.03U	0.0032J
POTASSIUM	NC	mg/L	130J	610	100	103	59J	24.6
SELENIUM	0.01(S)	mg/L	0.005U	0.05U	0.5U	0.03U	0.0038J	0.0089J
SILVER	0.05(S)	mg/L	0.005U	0.05U	0.005U	0.009U	0.003U	0.0027J
SODIUM	20(S)	mg/L	[1000]	[65000]	[6200]	[882]	[685]	[356]
THALLIUM	0.0005(G)	mg/L	0.01U	0.1U	0.01U	0.006U	0.006U	0.002U
TIN	NC	mg/L	0.1U	1U	0.1U	NA	NA	NA
VANADIUM	NC	mg/L	0.05U	0.03J	0.0019J	0.0011J	0.005U	0.0011J
ZINC	2(G)	mg/L	0.02U	0.2U	0.11	0.0159R	0.0161R	0.022J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0051-04 SB915-MW-103S 05/16/2012 Regular sample	SCA-0046-04 SB915-MW-89BR 05/09/2012 Regular sample	SCA-0046-03 SB915-MW-89D 05/09/2012 Regular sample	SCA-0046-02 SB915-MW-89I 05/09/2012 Regular sample	SCA-0046-01 SB915-MW-89S 05/09/2012 Regular sample	SCA-0047-04 SB915-MW-90BR 05/10/2012 Regular sample	SCA-0047-02 SB915-MW-90I 05/10/2012 Regular sample
ALUMINUM	NC	mg/L	0.2U	2U	1U	0.266	0.444	1.27J	0.283
ANTIMONY	0.003(S)	mg/L	0.006U	[0.129]	0.006U	0.006U	0.006U	0.06U	0.006U
ARSENIC	0.025(S)	mg/L	0.003U	0.03U	0.0113J	0.006U	0.003U	0.03U	0.0033
BARIUM	1(S)	mg/L	0.224	0.102	[2.16]	0.215	0.0662	0.0616	0.201
BERYLLIUM	0.003(G)	mg/L	0.001U	0.01U	0.001U	0.001U	0.001U	0.01U	0.001U
BORON	1(S)	mg/L	0.1U	[5.8J]	0.102J	0.0576J	0.0563J	[1.73J]	0.113J
CADMIUM	0.005(S)	mg/L	0.001U	0.0104R	0.0016J	0.001U	0.001U	0.01U	0.001U
CALCIUM	NC	mg/L	292	7410	1920	894	242	4900	1120
CHROMIUM	0.05(S)	mg/L	0.004U	0.04U	0.02U	0.0025J	0.007	[0.14J]	0.0051J
COBALT	NC	mg/L	0.0007J	0.04U	0.0047	0.004U	0.004U	0.0101J	0.004U
COPPER	0.2(S)	mg/L	0.0035J	0.0135J	0.0042J	0.0035J	0.0031J	0.0407J	0.0043J
CYANIDE	0.2(S)	mg/L	0.010U	0.0052J	0.010U	0.010UJ	0.010UJ	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055U	0.0055U	0.0055U	0.0055U	0.0055U	0.0055R	0.0055R
IRON	0.3(S)	mg/L	0.0426	[24.5J]	[0.968J]	[0.531J]	[0.728J]	[8.92J]	[2.15J]
LEAD	0.025(S)	mg/L	0.003U	0.3U	0.015U	0.006U	0.003U	0.03U	0.003U
MAGNESIUM	35(G)	mg/L	29.4J	[1390]	[155]	[101]	28.4	[884]	[89.3]
MANGANESE	0.3(S)	mg/L	0.0174J	[8.42]	[7.81]	[3.53]	[0.646]	[5.58]	[1.17]
MERCURY	0.0007(S)	mg/L	1.5e-006J	6.6e-007R	3.8e-006J	2.2e-006J	1.8e-006J	1.8e-006J	1.2e-006J
NICKEL	0.1(S)	mg/L	0.01U	1U	0.05U	0.0109	0.01U	0.1U	0.03U
POTASSIUM	NC	mg/L	9.77	959J	86.4J	51.5J	12.9J	292J	51.3J
SELENIUM	0.01(S)	mg/L	0.01U	[0.247]	0.05U	0.0073J	0.01U	[0.0345J]	0.01U
SILVER	0.05(S)	mg/L	0.0062	0.042	0.003U	0.003U	0.003U	0.075U	0.003U
SODIUM	20(S)	mg/L	[214]	[12200]	[1060]	[564]	[127]	[7040]	[875]
THALLIUM	0.0005(G)	mg/L	0.002U	0.2U	[0.009J]	0.002U	0.002U	0.05U	0.006U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.0011J	0.05U	0.005U	0.005U	0.005U	0.0162J	0.005U
ZINC	2(G)	mg/L	0.0147R	0.1U	0.0114R	0.0152R	0.018R	0.1U	0.0176R

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0047-01 SB915-MW-90S 05/10/2012 Regular sample	SCA-0045-05 SB915-MW-91BR 05/08/2012 Regular sample	SCA-0050-04 SB915-MW-91D 05/15/2012 Regular sample	SCA-0050-03 SB915-MW-91I 05/15/2012 Regular sample	SCA-0050-02 SB915-MW-91SN 05/15/2012 Regular sample	SCA-0050-01 SB915-MW-91S 05/15/2012 Regular sample	SCA-0046-07 SB915-MW-92BR 05/09/2012 Regular sample
ALUMINUM	NC	mg/L	0.686	0.981J	0.6U	0.359J	0.112J	2.58J	2U
ANTIMONY	0.003(S)	mg/L	0.0014J	0.3U	0.006U	0.006U	0.0016J	0.06U	0.03U
ARSENIC	0.025(S)	mg/L	0.003U	0.15U	0.0013J	0.0033	0.003U	0.03U	0.03U
BARIUM	1(S)	mg/L	0.128	0.147J	0.106	0.074	0.323	[2.39]	0.0535
BERYLLIUM	0.003(G)	mg/L	0.001U	0.05U	0.001U	0.001U	0.001U	0.01U	0.005U
BORON	1(S)	mg/L	0.1J	[2.08J]	0.0666J	0.0599J	0.061J	0.0116J	[3.52J]
CADMIUM	0.005(S)	mg/L	0.001U	0.05U	0.001U	0.001U	0.001U	0.01U	[0.0068J]
CALCIUM	NC	mg/L	814	3760	856	849	1110	7010	4680
CHROMIUM	0.05(S)	mg/L	0.0071J	[0.151J]	0.012U	0.012U	0.02U	0.04U	0.04U
COBALT	NC	mg/L	0.004U	0.2U	0.0023J	0.0033J	0.0028J	0.04U	0.02U
COPPER	0.2(S)	mg/L	0.0045J	0.141J	0.0037J	0.0035J	0.0057J	0.021J	0.0076J
CYANIDE	0.2(S)	mg/L	0.010U	0.0095J	0.010U	0.010U	0.010U	0.010U	0.010UJ
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055R	0.0055R	0.0055U	0.0055U	0.0055U	0.0055U	0.0055U
IRON	0.3(S)	mg/L	[2.47J]	5U	[1.33]	[2.46]	[0.302]	0.162J	[13.9J]
LEAD	0.025(S)	mg/L	0.003U	0.15U	0.003U	0.003U	0.0032	0.03U	0.3U
MAGNESIUM	35(G)	mg/L	[60.4]	[582]	[50.1J]	[57J]	[44.1J]	0.542J	[919]
MANGANESE	0.3(S)	mg/L	[1.27]	[2.11]	[0.433J]	[0.969J]	[0.639J]	0.0823J	[5.67]
MERCURY	0.0007(S)	mg/L	1.1e-006J	1.8e-006J	2.2e-006J	3.1e-006J	9.5e-006J	0.000341	1.8e-006J
NICKEL	0.1(S)	mg/L	0.01U	0.5UJ	0.01U	0.01U	0.0053J	0.1U	1U
POTASSIUM	NC	mg/L	27J	500J	29.4	30.2	34.3	279	527J
SELENIUM	0.01(S)	mg/L	0.01U	0.5U	0.01U	0.0035J	0.01U	0.1U	[0.144]
SILVER	0.05(S)	mg/L	0.003U	0.15R	0.003U	0.003U	0.003U	0.03U	0.0222
SODIUM	20(S)	mg/L	[497]	[36600]	[585]	[567]	[635]	[2820]	[8750]
THALLIUM	0.0005(G)	mg/L	0.004U	0.5U	0.006U	0.006U	0.01U	0.02U	0.2U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.005U	0.25U	0.0009J	0.0012J	0.005U	0.05U	0.025U
ZINC	2(G)	mg/L	0.0181R	0.5U	0.0371J	0.0162R	0.0734J	0.1U	0.05U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0051-03 SB915-MW-92D 05/16/2012 Regular sample	SCA-0051-02 SB915-MW-92I 05/16/2012 Regular sample	SCA-0051-01 SB915-MW-92S 05/16/2012 Regular sample	SCA-0049-04 SB915-MW-93BR 05/14/2012 Regular sample	SCA-0049-03 SB915-MW-93D 05/14/2012 Regular sample	SCA-0049-02 SB915-MW-93I 05/14/2012 Regular sample	SCA-0049-01 SB915-MW-93S 05/14/2012 Regular sample
ALUMINUM	NC	mg/L	0.2U	0.0557J	0.282J	5U	0.63J	0.459J	1.79J
ANTIMONY	0.003(S)	mg/L	0.006U	0.006U	0.018U	0.06U	0.006U	0.006U	0.006U
ARSENIC	0.025(S)	mg/L	0.003U	0.0017J	0.0037J	[0.0323]	0.0016J	0.0013J	0.0022J
BARIUM	1(S)	mg/L	0.0814	0.267	[1.52]	0.0873	0.105	0.114	0.162
BERYLLIUM	0.003(G)	mg/L	0.001U	0.001U	0.001U	0.005U	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	0.1U	0.1U	0.3U	[2.37]	0.0747J	0.0633J	0.0605J
CADMIUM	0.005(S)	mg/L	0.001U	0.001U	0.003U	0.05U	0.001U	0.001U	0.001U
CALCIUM	NC	mg/L	317	970	3900	12100	775	767	747
CHROMIUM	0.05(S)	mg/L	0.004U	0.0053R	0.0053R	0.075R	0.0048R	0.0057R	0.0058R
COBALT	NC	mg/L	0.0014J	0.0025J	0.0083J	0.0239J	0.0057	0.0047	0.0055
COPPER	0.2(S)	mg/L	0.0027J	0.0034J	0.0053J	0.176	0.0105	0.0123	0.0149
CYANIDE	0.2(S)	mg/L	0.010U	0.010U	0.010U	0.17	0.010U	0.010U	0.0037J
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055U	0.0055U	0.0055U	0.0055U	0.0055U	0.0055U	0.0055U
IRON	0.3(S)	mg/L	0.0608	0.152	0.0854	[28.4]	[1.23]	[0.998]	[3.31]
LEAD	0.025(S)	mg/L	0.003U	0.006U	0.03U	0.075U	0.003U	0.003U	0.003U
MAGNESIUM	35(G)	mg/L	[35.8J]	32.1J	0.147J	[1940J]	[61.9J]	[58.9J]	[52.7J]
MANGANESE	0.3(S)	mg/L	0.238J	0.151J	0.0127J	[10.5J]	[1.23J]	[1.26J]	[1.27J]
MERCURY	0.0007(S)	mg/L	5.6e-007R	0.0000468	0.000153	1.5e-006J	4.3e-006J	2.1e-006J	1.1e-005J
NICKEL	0.1(S)	mg/L	0.004J	0.0069J	0.0475J	0.0302J	0.0081J	0.0094J	0.0087J
POTASSIUM	NC	mg/L	8.1	33.3	113	896	31.8	31.8	38.1
SELENIUM	0.01(S)	mg/L	0.01U	0.01U	0.05U	[0.246J]	[0.0102]	[0.0105]	[0.0105]
SILVER	0.05(S)	mg/L	0.0067	0.0207	[0.0896]	0.15U	0.0024J	0.0023J	0.0024J
SODIUM	20(S)	mg/L	[221]	[597]	[2210]	[16700]	[424]	[431]	[346]
THALLIUM	0.0005(G)	mg/L	0.002U	0.002U	0.01U	0.1U	0.002U	0.002U	0.002U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.005U	0.0011J	0.005U	0.0286	0.0026J	0.0022J	0.0043J
ZINC	2(G)	mg/L	0.0128R	0.0163R	0.0433R	0.302J	0.0276J	0.044J	0.0516J

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 13
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0048-01 SB915-MW-94S 05/11/2012 Regular sample	SCA-0048-02 SB915-MW-95S 05/11/2012 Regular sample	SCA-0048-03 SB915-MW-96S 05/11/2012 Regular sample	SCA-0048-04 SB915-MW-97S 05/11/2012 Regular sample	SCA-0046-05 SB915-MW-98S 05/09/2012 Regular sample	SCA-0048-05 SB915-MW-99S 05/11/2012 Regular sample	SCA-0047-03 SB915-WB-04L 05/10/2012 Regular sample
ALUMINUM	NC	mg/L	0.203J	0.2U	0.549	0.198J	0.2U	0.45	0.35
ANTIMONY	0.003(S)	mg/L	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U
ARSENIC	0.025(S)	mg/L	0.003U	0.003U	0.003U	0.003U	0.0011J	0.0018J	0.015U
BARIUM	1(S)	mg/L	0.0838	0.158	0.0791	0.0569	0.141	0.168	0.464
BERYLLIUM	0.003(G)	mg/L	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	0.0134J	0.0311J	0.0251J	0.0389J	0.0493J	0.0737J	0.162J
CADMIUM	0.005(S)	mg/L	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
CALCIUM	NC	mg/L	190	218	113	225	324	530	2530
CHROMIUM	0.05(S)	mg/L	0.0356J	0.0027J	0.0029J	0.0016J	0.004U	0.0044R	0.02U
COBALT	NC	mg/L	0.0016J	0.004U	0.0007J	0.0008J	0.004U	0.0029J	0.0041
COPPER	0.2(S)	mg/L	0.0125	0.0017J	0.0034J	0.0034J	0.0069J	0.0036J	0.0154J
CYANIDE	0.2(S)	mg/L	0.010U	0.010U	0.010U	0.010U	0.010UJ	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055U	0.0055U	0.0055U	0.0055U	0.0055U	0.0055U	0.0055R
IRON	0.3(S)	mg/L	[0.445J]	0.1U	[0.934J]	[0.348J]	0.256J	[1.44J]	[9.23J]
LEAD	0.025(S)	mg/L	0.003U	0.003U	0.003U	0.003U	0.003U	0.003U	0.015U
MAGNESIUM	35(G)	mg/L	[39.6]	22.8	23	31.8	[39.1]	[46.6]	[250]
MANGANESE	0.3(S)	mg/L	[1.41]	0.0134J	0.235	0.191	[0.457]	[1.15]	[0.418]
MERCURY	0.0007(S)	mg/L	1.6e-006J	9.3e-007J	1.7e-006J	1.1e-006J	1.9e-006J	2.3e-006J	5e-007U
NICKEL	0.1(S)	mg/L	0.0266J	0.01U	0.0046J	0.0034J	0.01U	0.0067J	0.05U
POTASSIUM	NC	mg/L	4.54J	9.36	10.1J	12.1J	20J	33.8J	82.7J
SELENIUM	0.01(S)	mg/L	0.0034J	0.0037J	0.01U	0.0039J	0.01U	0.0077J	0.0034J
SILVER	0.05(S)	mg/L	0.003U	0.003U	0.003U	0.003U	0.001J	0.0015J	0.0046J
SODIUM	20(S)	mg/L	[61.4]	[199]	[73.4]	[160]	[188]	[298]	[1730]
THALLIUM	0.0005(G)	mg/L	0.002U	0.002U	0.002U	0.002U	0.002U	0.002U	0.01U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.0018J	0.001J	0.0013J	0.0009J	0.005U	0.0022J	0.025U
ZINC	2(G)	mg/L	0.024J	0.0127R	0.013R	0.0138R	0.011R	0.0185R	0.05U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0043-01 SB915-IMW-02S 04/26/2012 Regular sample	SB915-0055-03 SB915-MW-01 05/29/2012 Regular sample	SB915-0056-01 SB915-MW-03 05/30/2012 Regular sample	SB915-0056-02 SB915-MW-04 05/30/2012 Regular sample	SB915-0055-02 SB915-MW-104I 05/29/2012 Regular sample	SB915-0056-05 SB915-MW-104S 05/30/2012 Regular sample	SB915-0055-01 SB915-MW-105BR 05/29/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
1,2,3,4,7,8,9-HPCDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
1,2,3,4,7,8-HXCDD	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
1,2,3,4,7,8-HXCDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
1,2,3,6,7,8-HXCDD	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
1,2,3,6,7,8-HXCDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
1,2,3,7,8,9-HXCDD	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
1,2,3,7,8,9-HXCDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
1,2,3,7,8-PECDD	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
1,2,3,7,8-PECDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
2,3,4,6,7,8-HXCDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
2,3,4,7,8-PECDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
2,3,7,8-TCDD	NC	pg/L	9.3U	9.5U	9.5U	9.4U	9.5U	9.6U	9.6U
2,3,7,8-TCDF	NC	pg/L	9.3U	9.5U	9.5U	9.4U	9.5U	9.6U	9.6U
OCDD	NC	pg/L	1.8EMPC,J	2.4EMPC,J	95U	1.7EMPC,J	4.7EMPC,J	13EMPC,J	4.9EMPC,J
OCDF	NC	pg/L	93U	95U	95U	94U	95U	96U	96U
TOTAL HPCDD	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
TOTAL HPCDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
TOTAL HXCDD	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
TOTAL HXCDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
TOTAL PECDD	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
TOTAL PECDF	NC	pg/L	46U	47U	47U	47U	48U	48U	48U
TOTAL TCDD	NC	pg/L	9.3U	9.5U	9.5U	9.4U	9.5U	9.6U	9.6U
Total TCDF	NC	pg/L	9.3U	2.2QBJ	2.7QBJ	1.7QBJ	9.9JBQ	2QBJ	3BJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	47U	47U	48U	47U	47U	46U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	47U	47U	48U	47U	47U	46U
1,2,3,4,7,8,9-HPCDF	NC	pg/L	47U	47U	48U	47U	47U	46U
1,2,3,4,7,8-HXCDD	NC	pg/L	47U	47U	48U	47U	47U	46U
1,2,3,4,7,8-HXCDF	NC	pg/L	47U	47U	48U	47U	47U	46U
1,2,3,6,7,8-HXCDD	NC	pg/L	47U	47U	48U	47U	47U	46U
1,2,3,6,7,8-HXCDF	NC	pg/L	47U	47U	48U	47U	47U	46U
1,2,3,7,8,9-HXCDD	NC	pg/L	47U	47U	48U	47U	47U	46U
1,2,3,7,8,9-HXCDF	NC	pg/L	47U	47U	48U	47U	47U	46U
1,2,3,7,8-PECDD	NC	pg/L	47U	47U	48U	47U	47U	46U
1,2,3,7,8-PECDF	NC	pg/L	47U	47U	48U	47U	47U	46U
2,3,4,6,7,8-HXCDF	NC	pg/L	47U	47U	48U	47U	47U	46U
2,3,4,7,8-PECDF	NC	pg/L	47U	47U	48U	47U	47U	46U
2,3,7,8-TCDD	NC	pg/L	9.4U	9.4U	9.6U	9.4U	9.5U	9.2U
2,3,7,8-TCDF	NC	pg/L	9.4U	9.4U	9.6U	9.4U	9.5U	9.2U
OCDD	NC	pg/L	94U	9.6EMPC,J	3.4EMPC,J	94U	1.9EMPC,J	15EMPC,J
OCDF	NC	pg/L	94U	94U	96U	94U	95U	92U
TOTAL HPCDD	NC	pg/L	47U	47U	48U	47U	47U	46U
TOTAL HPCDF	NC	pg/L	47U	47U	48U	47U	47U	46U
TOTAL HXCDD	NC	pg/L	47U	47U	48U	47U	47U	46U
TOTAL HXCDF	NC	pg/L	47U	47U	48U	47U	47U	46U
TOTAL PECDD	NC	pg/L	47U	47U	48U	47U	47U	46U
TOTAL PECDF	NC	pg/L	47U	47U	48U	47U	47U	46U
TOTAL TCDD	NC	pg/L	9.4U	9.4U	9.6U	9.4U	9.5U	9.2U
Total TCDF	NC	pg/L	9.4U	3.8QBJ	9.6U	2.3QBJ	9.5U	9.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	48U	47U	49U	47U	47U	47U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	48U	47U	49U	47U	47U	47U
1,2,3,4,7,8,9-HPCDF	NC	pg/L	48U	47U	49U	47U	47U	47U
1,2,3,4,7,8-HXCDD	NC	pg/L	48U	47U	49U	47U	47U	47U
1,2,3,4,7,8-HXCDF	NC	pg/L	48U	47U	49U	47U	47U	47U
1,2,3,6,7,8-HXCDD	NC	pg/L	48U	47U	49U	47U	47U	47U
1,2,3,6,7,8-HXCDF	NC	pg/L	48U	47U	49U	47U	47U	47U
1,2,3,7,8,9-HXCDD	NC	pg/L	48U	47U	49U	47U	47U	47U
1,2,3,7,8,9-HXCDF	NC	pg/L	48U	47U	49U	47U	47U	47U
1,2,3,7,8-PECDD	NC	pg/L	48U	47U	49U	47U	47U	47U
1,2,3,7,8-PECDF	NC	pg/L	48U	47U	49U	47U	47U	47U
2,3,4,6,7,8-HXCDF	NC	pg/L	48U	47U	49U	47U	47U	47U
2,3,4,7,8-PECDF	NC	pg/L	48U	47U	49U	47U	47U	47U
2,3,7,8-TCDD	NC	pg/L	9.7U	9.5U	9.7U	9.4U	9.3U	9.5U
2,3,7,8-TCDF	NC	pg/L	9.7U	9.5U	9.7U	9.4U	9.3U	9.5U
OCDD	NC	pg/L	2.4EMPC,J	95U	10J	7.5EMPC,J	7.5EMPC,J	95U
OCDF	NC	pg/L	97U	95U	97U	94U	93U	95U
TOTAL HPCDD	NC	pg/L	48U	47U	49U	47U	47U	47U
TOTAL HPCDF	NC	pg/L	48U	47U	49U	47U	47U	47U
TOTAL HXCDD	NC	pg/L	48U	47U	49U	47U	47U	47U
TOTAL HXCDF	NC	pg/L	48U	47U	49U	0.68J	47U	47U
TOTAL PECDD	NC	pg/L	48U	47U	2.4J	47U	47U	47U
TOTAL PECDF	NC	pg/L	48U	47U	49U	47U	47U	47U
TOTAL TCDD	NC	pg/L	9.7U	9.5U	9.7U	9.4U	9.3U	9.5U
Total TCDF	NC	pg/L	9.7U	9.5U	9.7U	9.4U	18QB	9.5U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	48U	48U	48U	47U	48U	47U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	48U	48U	48U	47U	48U	0.83EMPC,J
1,2,3,4,7,8,9-HPCDF	NC	pg/L	48U	48U	48U	47U	48U	47U
1,2,3,4,7,8-HXCDD	NC	pg/L	48U	48U	48U	47U	48U	47U
1,2,3,4,7,8-HXCDF	NC	pg/L	48U	48U	48U	47U	48U	47U
1,2,3,6,7,8-HXCDD	NC	pg/L	48U	48U	48U	47U	48U	47U
1,2,3,6,7,8-HXCDF	NC	pg/L	48U	48U	48U	47U	48U	47U
1,2,3,7,8,9-HXCDD	NC	pg/L	48U	48U	48U	47U	48U	47U
1,2,3,7,8,9-HXCDF	NC	pg/L	48U	48U	48U	47U	48U	47U
1,2,3,7,8-PECDD	NC	pg/L	48U	48U	48U	47U	48U	47U
1,2,3,7,8-PECDF	NC	pg/L	48U	48U	48U	47U	48U	47U
2,3,4,6,7,8-HXCDF	NC	pg/L	48U	48U	48U	47U	48U	47U
2,3,4,7,8-PECDF	NC	pg/L	48U	48U	48U	47U	48U	47U
2,3,7,8-TCDD	NC	pg/L	9.5U	9.6U	9.5U	9.4U	9.6U	9.5U
2,3,7,8-TCDF	NC	pg/L	9.5U	9.6U	9.5U	9.4U	9.6U	9.5U
OCDD	NC	pg/L	4.3EMPC,J	3.3EMPC,J	95U	1.6EMPC,J	18EMPC,J	25J
OCDF	NC	pg/L	95U	96U	95U	94U	96U	95U
TOTAL HPCDD	NC	pg/L	48U	48U	48U	47U	48U	47U
TOTAL HPCDF	NC	pg/L	48U	48U	48U	47U	48U	0.83QJ
TOTAL HXCDD	NC	pg/L	48U	48U	48U	47U	48U	47U
TOTAL HXCDF	NC	pg/L	48U	48U	48U	47U	48U	47U
TOTAL PECDD	NC	pg/L	48U	48U	48U	47U	48U	47U
TOTAL PECDF	NC	pg/L	48U	48U	48U	47U	48U	47U
TOTAL TCDD	NC	pg/L	9.5U	9.6U	9.5U	9.4U	9.6U	9.5U
Total TCDF	NC	pg/L	9.5U	9.6U	9.5U	9.4U	37QB	6.7BJQ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	47U	46U	48U	47U	47U	46U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	47U	46U	48U	47U	47U	46U
1,2,3,4,7,8,9-HPCDF	NC	pg/L	47U	46U	48U	47U	47U	46U
1,2,3,4,7,8-HXCDD	NC	pg/L	47U	46U	48U	47U	47U	46U
1,2,3,4,7,8-HXCDF	NC	pg/L	47U	46U	48U	47U	47U	46U
1,2,3,6,7,8-HXCDD	NC	pg/L	47U	46U	48U	47U	47U	46U
1,2,3,6,7,8-HXCDF	NC	pg/L	47U	46U	48U	47U	47U	46U
1,2,3,7,8,9-HXCDD	NC	pg/L	47U	46U	48U	47U	47U	46U
1,2,3,7,8,9-HXCDF	NC	pg/L	47U	46U	48U	47U	47U	46U
1,2,3,7,8-PECDD	NC	pg/L	47U	46U	48U	47U	47U	46U
1,2,3,7,8-PECDF	NC	pg/L	47U	46U	48U	47U	47U	46U
2,3,4,6,7,8-HXCDF	NC	pg/L	47U	46U	48U	47U	47U	46U
2,3,4,7,8-PECDF	NC	pg/L	47U	46U	48U	47U	47U	46U
2,3,7,8-TCDD	NC	pg/L	9.4U	9.1U	9.5U	9.4U	9.4U	9.2U
2,3,7,8-TCDF	NC	pg/L	9.4U	9.1U	9.5U	9.4U	9.4U	9.2U
OCDD	NC	pg/L	94U	6.0EMPC,J	8.4J	1.8EMPC,J	4.1EMPC,J	15J
OCDF	NC	pg/L	94U	91U	95U	94U	94U	92U
TOTAL HPCDD	NC	pg/L	47U	46U	48U	47U	47U	46U
TOTAL HPCDF	NC	pg/L	47U	46U	48U	47U	47U	46U
TOTAL HXCDD	NC	pg/L	47U	46U	48U	47U	47U	46U
TOTAL HXCDF	NC	pg/L	47U	46U	48U	47U	47U	46U
TOTAL PECDD	NC	pg/L	47U	46U	48U	47U	47U	46U
TOTAL PECDF	NC	pg/L	47U	46U	48U	47U	47U	46U
TOTAL TCDD	NC	pg/L	9.4U	9.1U	9.5U	9.4U	9.4U	9.2U
Total TCDF	NC	pg/L	10BQJ	9.1U	4.2QBJ	8.9JQB	4.2BJ	5.6BJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	0.65EMPC,J	48U	48U	47U	48U	48U	47U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	0.53EMPC,J	48U	48U	47U	48U	48U	47U
1,2,3,4,7,8,9-HPCDF	NC	pg/L	48U	48U	48U	47U	48U	48U	47U
1,2,3,4,7,8-HXCDD	NC	pg/L	48U	48U	48U	47U	48U	48U	47U
1,2,3,4,7,8-HXCDF	NC	pg/L	0.16EMPC,J	48U	48U	47U	48U	48U	47U
1,2,3,6,7,8-HXCDD	NC	pg/L	48U	48U	48U	47U	48U	48U	47U
1,2,3,6,7,8-HXCDF	NC	pg/L	0.31EMPC,J	48U	48U	47U	48U	48U	47U
1,2,3,7,8,9-HXCDD	NC	pg/L	0.65EMPC,J	48U	48U	47U	48U	48U	47U
1,2,3,7,8,9-HXCDF	NC	pg/L	0.75EMPC,J	48U	48U	47U	48U	48U	47U
1,2,3,7,8-PECDD	NC	pg/L	48U	48U	48U	47U	48U	48U	47U
1,2,3,7,8-PECDF	NC	pg/L	48U	48U	48U	47U	48U	48U	47U
2,3,4,6,7,8-HXCDF	NC	pg/L	0.27EMPC,J	48U	48U	47U	48U	48U	47U
2,3,4,7,8-PECDF	NC	pg/L	0.40J	48U	48U	47U	48U	48U	47U
2,3,7,8-TCDD	NC	pg/L	9.6U	9.5U	9.7U	9.4U	9.5U	9.6U	9.5U
2,3,7,8-TCDF	NC	pg/L	0.33EMPC,J	9.5U	9.7U	9.4U	9.5U	9.6U	9.5U
OCDD	NC	pg/L	8.2EMPC,J	1.3EMPC,J	97U	9.1EMPC,J	3.8EMPC,J	96U	1.6EMPC,J
OCDF	NC	pg/L	0.67EMPC,J	95U	97U	94U	95U	96U	95U
TOTAL HPCDD	NC	pg/L	1.1QJB	48U	48U	47U	48U	48U	47U
TOTAL HPCDF	NC	pg/L	0.53QBJ	48U	48U	47U	48U	48U	47U
TOTAL HXCDD	NC	pg/L	1.7QJB	48U	48U	47U	48U	48U	47U
TOTAL HXCDF	NC	pg/L	1.7QJB	48U	48U	47U	48U	48U	47U
TOTAL PECDD	NC	pg/L	1BJQ	48U	48U	47U	48U	48U	47U
TOTAL PECDF	NC	pg/L	1.5QJB	48U	48U	47U	48U	48U	47U
TOTAL TCDD	NC	pg/L	0.83QJ	9.5U	9.7U	9.4U	9.5U	9.6U	9.5U
Total TCDF	NC	pg/L	1.9QBJ	2.4QBJ	3QJB	9.4U	9.5U	9.6U	6.5QJB

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
1,2,3,4,7,8,9-HPCDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
1,2,3,4,7,8-HXCDD	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
1,2,3,4,7,8-HXCDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
1,2,3,6,7,8-HXCDD	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
1,2,3,6,7,8-HXCDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
1,2,3,7,8,9-HXCDD	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
1,2,3,7,8,9-HXCDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
1,2,3,7,8-PECDD	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
1,2,3,7,8-PECDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
2,3,4,6,7,8-HXCDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
2,3,4,7,8-PECDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
2,3,7,8-TCDD	NC	pg/L	9.5U	9.5U	9.5U	9.5U	10U	9.3U	9.2U
2,3,7,8-TCDF	NC	pg/L	9.5U	9.5U	9.5U	9.5U	10U	9.3U	9.2U
OCDD	NC	pg/L	1.6EMPC,J	95U	2.0J,EMPC	95U	2.1J,EMPC	93U	92U
OCDF	NC	pg/L	95U	95U	2.2J,EMPC	95U	100U	93U	92U
TOTAL HPCDD	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
TOTAL HPCDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
TOTAL HXCDD	NC	pg/L	47U	48U	4.4QJ	47U	50U	47U	46U
TOTAL HXCDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
TOTAL PECDD	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
TOTAL PECDF	NC	pg/L	47U	48U	47U	47U	50U	47U	46U
TOTAL TCDD	NC	pg/L	9.5U	9.5U	9.5U	9.5U	1.2QJ	9.3U	9.2U
Total TCDF	NC	pg/L	9QBJ	9.7QJB	9.5U	46Q	23QB	9.3U	13QJB

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0058-01 SB915-PZ-07D 06/01/2012 Regular sample	SB915-0058-02 SB915-PZ-07I 06/01/2012 Regular sample	SB915-0058-03 SB915-PZ-07S 06/01/2012 Regular sample	SB915-0053-02 SB915-WB-01L 05/24/2012 Regular sample	SB915-0057-03 SB915-WB-03L 05/31/2012 Regular sample	SB915-0053-01 SB915-WB-05M 05/24/2012 Regular sample	SB915-0046-04 SB915-WB-05R 05/01/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
1,2,3,4,7,8,9-HPCDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
1,2,3,4,7,8-HXCDD	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
1,2,3,4,7,8-HXCDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
1,2,3,6,7,8-HXCDD	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
1,2,3,6,7,8-HXCDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
1,2,3,7,8,9-HXCDD	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
1,2,3,7,8,9-HXCDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
1,2,3,7,8-PECDD	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
1,2,3,7,8-PECDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
2,3,4,6,7,8-HXCDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
2,3,4,7,8-PECDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
2,3,7,8-TCDD	NC	pg/L	9.2U	9.2U	9.5U	9.5U	9.5U	9.3U	9.6U
2,3,7,8-TCDF	NC	pg/L	9.2U	9.2U	9.5U	9.5U	9.5U	9.3U	9.6U
OCDD	NC	pg/L	11EMPC,J	5.2EMPC,J	5.4EMPC,J	2.0EMPC,J	95U	2.0EMPC,J	4.4EMPC,J
OCDF	NC	pg/L	92U	92U	95U	95U	95U	93U	96U
TOTAL HPCDD	NC	pg/L	1.8QJ	46U	47U	48U	47U	47U	48U
TOTAL HPCDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
TOTAL HXCDD	NC	pg/L	46U	46U	47U	48U	0.9QJ	47U	48U
TOTAL HXCDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
TOTAL PECDD	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
TOTAL PECDF	NC	pg/L	46U	46U	47U	48U	47U	47U	48U
TOTAL TCDD	NC	pg/L	9.2U	9.2U	9.5U	9.5U	9.5U	9.3U	9.6U
Total TCDF	NC	pg/L	4.9QBJ	5.2QBJ	9.5U	6.7QJB	9.5U	7.8QJB	9.6U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0046-01 SB915-WB-05U 05/01/2012 Regular sample	SB915-0052-01 SB915-WB-06 05/23/2012 Regular sample	SB915-0043-03 SB915-WB-07L 04/26/2012 Regular sample	SB915-0043-04 SB915-WB-07R 04/26/2012 Regular sample	SB915-0043-02 SB915-WB-07U 04/26/2012 Regular sample	SB915-0041-01 SB915-WB-09L 04/24/2012 Regular sample	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
1,2,3,4,7,8,9-HPCDF	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
1,2,3,4,7,8-HXCDD	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
1,2,3,4,7,8-HXCDF	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
1,2,3,6,7,8-HXCDD	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
1,2,3,6,7,8-HXCDF	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
1,2,3,7,8,9-HXCDD	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
1,2,3,7,8,9-HXCDF	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
1,2,3,7,8-PECDD	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
1,2,3,7,8-PECDF	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
2,3,4,6,7,8-HXCDF	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
2,3,4,7,8-PECDF	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
2,3,7,8-TCDD	NC	pg/L	9.4U	8.9U	9.2U	9.3U	9.4U	9.4U	9.4U
2,3,7,8-TCDF	NC	pg/L	9.4U	8.9U	1.4EMPC,J	9.3U	9.4U	9.4U	9.4U
OCDD	NC	pg/L	94U	89U	92U	4.1EMPC,J	94U	7.7EMPC,J	94U
OCDF	NC	pg/L	94U	89U	92U	93U	94U	94U	94U
TOTAL HPCDD	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
TOTAL HPCDF	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
TOTAL HXCDD	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
TOTAL HXCDF	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
TOTAL PECDD	NC	pg/L	47U	44U	46U	46U	47U	47U	47U
TOTAL PECDF	NC	pg/L	47U	44U	46U	46U	47U	47U	0.59QJ
TOTAL TCDD	NC	pg/L	9.4U	8.9U	9.2U	9.3U	9.4U	9.4U	9.4U
Total TCDF	NC	pg/L	9.4U	9.2QJB	1.4QJ	9.3U	9.4U	9.4U	9.4U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	47U	47U	47U	2.7J,EMPC	47U	47U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	47U	47U	47U	1.8J,EMPC	47U	47U
1,2,3,4,7,8,9-HPCDF	NC	pg/L	47U	47U	47U	47U	47U	47U
1,2,3,4,7,8-HXCDD	NC	pg/L	47U	47U	47U	47U	47U	47U
1,2,3,4,7,8-HXCDF	NC	pg/L	47U	47U	47U	47U	47U	47U
1,2,3,6,7,8-HXCDD	NC	pg/L	47U	47U	47U	47U	47U	47U
1,2,3,6,7,8-HXCDF	NC	pg/L	47U	47U	47U	47U	47U	47U
1,2,3,7,8,9-HXCDD	NC	pg/L	47U	47U	47U	47U	47U	47U
1,2,3,7,8,9-HXCDF	NC	pg/L	47U	47U	47U	47U	47U	47U
1,2,3,7,8-PECDD	NC	pg/L	47U	47U	47U	47U	47U	47U
1,2,3,7,8-PECDF	NC	pg/L	47U	47U	47U	47U	47U	47U
2,3,4,6,7,8-HXCDF	NC	pg/L	47U	47U	47U	47U	47U	47U
2,3,4,7,8-PECDF	NC	pg/L	47U	47U	47U	47U	47U	47U
2,3,7,8-TCDD	NC	pg/L	9.4U	9.4U	9.4U	9.4U	9.4U	9.4U
2,3,7,8-TCDF	NC	pg/L	9.4U	9.4U	9.4U	9.4U	9.4U	9.4U
OCDD	NC	pg/L	4.1EMPC,J	4.3EMPC,J	67J	39J	7.4J	7.2J,EMPC
OCDF	NC	pg/L	94U	94U	94U	3.2J	94U	94U
TOTAL HPCDD	NC	pg/L	47U	47U	47U	5QJ	47U	47U
TOTAL HPCDF	NC	pg/L	47U	47U	47U	3.7QJ	47U	47U
TOTAL HXCDD	NC	pg/L	1.7QJ	47U	47U	47U	47U	47U
TOTAL HXCDF	NC	pg/L	47U	47U	47U	1.2QJ	47U	47U
TOTAL PECDD	NC	pg/L	47U	47U	47U	47U	47U	47U
TOTAL PECDF	NC	pg/L	47U	47U	47U	47U	47U	47U
TOTAL TCDD	NC	pg/L	2.4QJ	9.4U	9.4U	9.4U	9.4U	9.4U
Total TCDF	NC	pg/L	9.4U	9.4U	9.4U	9.4U	9.4U	9.4U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 14
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	47U	47U	46U
1,2,3,4,6,7,8-HPCDF	NC	pg/L	47U	47U	46U
1,2,3,4,7,8,9-HPCDF	NC	pg/L	47U	47U	46U
1,2,3,4,7,8-HXCDD	NC	pg/L	47U	47U	46U
1,2,3,4,7,8-HXCDF	NC	pg/L	47U	47U	46U
1,2,3,6,7,8-HXCDD	NC	pg/L	47U	47U	46U
1,2,3,6,7,8-HXCDF	NC	pg/L	47U	47U	46U
1,2,3,7,8,9-HXCDD	NC	pg/L	47U	47U	46U
1,2,3,7,8,9-HXCDF	NC	pg/L	47U	47U	46U
1,2,3,7,8-PECDD	NC	pg/L	47U	47U	46U
1,2,3,7,8-PECDF	NC	pg/L	47U	47U	46U
2,3,4,6,7,8-HXCDF	NC	pg/L	47U	47U	46U
2,3,4,7,8-PECDF	NC	pg/L	47U	47U	46U
2,3,7,8-TCDD	NC	pg/L	9.4U	9.5U	9.3U
2,3,7,8-TCDF	NC	pg/L	9.4U	9.5U	9.3U
OCDD	NC	pg/L	6.0J	17EMPC,J	93U
OCDF	NC	pg/L	94U	95U	93U
TOTAL HPCDD	NC	pg/L	47U	47U	46U
TOTAL HPCDF	NC	pg/L	47U	47U	46U
TOTAL HXCDD	NC	pg/L	47U	47U	46U
TOTAL HXCDF	NC	pg/L	47U	47U	46U
TOTAL PECDD	NC	pg/L	47U	47U	46U
TOTAL PECDF	NC	pg/L	47U	47U	46U
TOTAL TCDD	NC	pg/L	9.4U	9.5U	9.3U
Total TCDF	NC	pg/L	1.3J	15QB	2.7QBJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID / Location / Sample Date / Sample Purpose	SB915-0043-01 / SB915-IMW-02S / 04/26/2012 / Regular sample	SB915-0055-03 / SB915-MW-01 / 05/29/2012 / Regular sample	SB915-0056-01 / SB915-MW-03 / 05/30/2012 / Regular sample	SB915-0056-02 / SB915-MW-04 / 05/30/2012 / Regular sample	SB915-0055-02 / SB915-MW-104I / 05/29/2012 / Regular sample	SB915-0056-05 / SB915-MW-104S / 05/30/2012 / Regular sample	SB915-0055-01 / SB915-MW-105BR / 05/29/2012 / Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		95J	410B	270B	470J	230B	110J	230B
ALKALINITY, TOTAL	NC	mg/L		95J	410B	270B	470J	230B	110R	230B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		11	2.0U	2.0U	1.2J	2.0U	4.0J	14
BROMIDE	2(G)	mg/L		[12]	0.20U	[2.8]	[6.9]	0.20U	[27]	0.20U
CHEMICAL OXYGEN DEMAND	NC	mg/L		2000B	8.7J	280J	1800J	8.8J	5000J	5.3J
CHLORIDE	250(S)	mg/L		[22000]	50	[5200]	[13000]	170	[58000]	95
HARDNESS (AS CACO3)	NC	mg/L		21000	500	3800	11000	580	49000	210
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[3.3J]	0.15B	[20B]	[12B]	0.16B	0.45R	[4.5B]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		5.0U	25U	28	23J	25U	25U	14J
NITROGEN, NITRATE (AS N)	10(S)	mg/L		2.5U	0.062	0.50U	1.3U	0.77	5.0U	0.050U
NITROGEN, NITRITE	1(S)	mg/L		2.5U	0.050UJ	0.50UJ	1.3UJ	0.050UJ	5.0UJ	0.050UJ
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L		50U	40B	[330]	170J	230B	100U	48B
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		41000	490	10000	12000	810	96000	430
TOTAL ORGANIC CARBON	NC	mg/L		2.1	4.1J	2.2J	5.1J	0.83J	2.1J	3.4
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		0.010U	[0.009J]	0.010U	0.010U	[0.012]	0.010U	[0.0071J]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0051-02 SB915-MW-106I 05/18/2012 Regular sample	SB915-0051-01 SB915-MW-106S 05/18/2012 Regular sample	SB915-0050-04 SB915-MW-107BR 05/17/2012 Regular sample	SB915-0050-03 SB915-MW-107D 05/17/2012 Regular sample	SB915-0050-02 SB915-MW-107I 05/17/2012 Regular sample	SB915-0050-01 SB915-MW-107S 05/17/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	60B	160B	59B	80B	190B	140B
ALKALINITY, TOTAL	NC	mg/L	60B	160B	59B	80B	190B	140B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5U	5U	5.0U	5.0U	5.0U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	1.3J	2U	6.0U	2.0U	2.0U	2
BROMIDE	2(G)	mg/L	[13]	0.2U	[130]	[39]	[2.3]	[12]
CHEMICAL OXYGEN DEMAND	NC	mg/L	2500J	28J	79000J	4000J	1300J	2600J
CHLORIDE	250(S)	mg/L	[35000]	[310]	[120000]	[68000]	[4200]	[30000]
HARDNESS (AS CACO3)	NC	mg/L	14000	490	9300	28000	3700	25000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	1.8	0.2U	[17]	[24]	1.5	0.62
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	25U	23J	23J	25U	460
NITROGEN, NITRATE (AS N)	10(S)	mg/L	2.5U	0.072	25U	5.0U	0.50U	2.5U
NITROGEN, NITRITE	1(S)	mg/L	2.5U	0.05U	25U	5.0U	0.50U	2.5U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	16J	72	[4200]	[1300]	170	33J
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	33000	840	190000	140000	11000	77000
TOTAL ORGANIC CARBON	NC	mg/L	0.63J	1.4	1.0U	0.32J	0.79J	1.2
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.01U	0.01U	[0.024]	0.010U	[0.038]	[0.040]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0044-04 SB915-MW-108BR 04/27/2012 Regular sample	SB915-0044-03 SB915-MW-108D 04/27/2012 Regular sample	SB915-0047-05 SB915-MW-108S 05/02/2012 Regular sample	SB915-0047-06 SB915-MW-109I 05/02/2012 Regular sample	SB915-0049-01 SB915-MW-109S 05/04/2012 Regular sample	SB915-0043-05 SB915-MW-110S 04/26/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	190J	230J	370J	120J	5.0U	180J
ALKALINITY, TOTAL	NC	mg/L	190J	230J	370J	120J	800B	180J
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	90	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.8	2.0U	6.0U	2.4	6.5
BROMIDE	2(G)	mg/L	0.9	0.20U	0.20U	[2.7]	[6.1]	1.3
CHEMICAL OXYGEN DEMAND	NC	mg/L	27	21	200J	2700J	880J	210B
CHLORIDE	250(S)	mg/L	170	110	[250]	[5500]	[12000]	[2300]
HARDNESS (AS CACO3)	NC	mg/L	1700	500	640	6500	11000	2200
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.78J	0.20J	0.20U	[2.2]	[3.1]	[4.6J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	10U	10U	25U	25U	25U	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.13U	0.050U	0.060R	0.50U	1.3U	0.25U
NITROGEN, NITRITE	1(S)	mg/L	0.13U	0.050U	0.050U	0.50U	1.3U	0.25U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	[1400]	230	120	[1200]	28	49J
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	2200	680	1000J	14000	22000	5100
TOTAL ORGANIC CARBON	NC	mg/L	0.68J	1.3	2	2.2	2.9	3.7
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	[0.0078J]	0.010U	[0.0091J]	[0.024]	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0045-01 SB915-MW-111BR 04/30/2012 Regular sample	SB915-0045-02 SB915-MW-111D 04/30/2012 Regular sample	SB915-0045-03 SB915-MW-111I 04/30/2012 Regular sample	SB915-0045-04 SB915-MW-111S 04/30/2012 Regular sample	SB915-0048-06 SB915-MW-112I 05/03/2012 Regular sample	SB915-0048-05 SB915-MW-112S 05/03/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	5R	5R	5R	270J	90J	5.0U
ALKALINITY, TOTAL	NC	mg/L	5R	5R	5R	270J	90J	41B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	32
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0U	2.0U	7.6	6.9	2.0U
BROMIDE	2(G)	mg/L	[900]	[27]	[23]	[5.7]	[14]	1.6
CHEMICAL OXYGEN DEMAND	NC	mg/L	12000J	5300J	7600J	750J	15000J	650J
CHLORIDE	250(S)	mg/L	[100000]	[62000]	[39000]	[8600]	[37000]	[3700]
HARDNESS (AS CACO3)	NC	mg/L	64000	52000	37000	7500	33000	3900
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[160B]	[25B]	[12B]	[5.3B]	[7.9]	[2.3]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	150	28	17J	25U	25U	25U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	13U	5.0U	5.0U	1.3U	2.5U	0.25U
NITROGEN, NITRITE	1(S)	mg/L	13U	5.0U	5.0U	1.3U	2.5U	0.25U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	[630]	160	130	17J	89	56
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	180000	120000	73000	21000	65000	7200
TOTAL ORGANIC CARBON	NC	mg/L	1.0U	2.2	2.1	13	2.8	3.4
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	0.010U	0.010U	[0.017]	0.010U	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0049-02 SB915-MW-113S 05/04/2012 Regular sample	SB915-0054-03 SB915-MW-115BR 05/25/2012 Regular sample	SB915-0054-04 SB915-MW-116S 05/25/2012 Regular sample	SB915-0054-02 SB915-MW-117S 05/25/2012 Regular sample	SB915-0051-04 SB915-MW-118BR 05/18/2012 Regular sample	SB915-0053-05 SB915-MW-118S 05/24/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	5.0U	110B	250B	150B	200B	63B
ALKALINITY, TOTAL	NC	mg/L	320J	110B	250B	150B	200B	63B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	77J	5.0U	5.0U	5.0U	5U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	5.4J	1.3J	2.0U	2.0U	1.3J	1.9J
BROMIDE	2(G)	mg/L	[6.0]	[22]	1.0U	[2.3]	2U	[11]
CHEMICAL OXYGEN DEMAND	NC	mg/L	450J	990J	200J	190J	220J	700J
CHLORIDE	250(S)	mg/L	[10000]	[29000]	[1700]	[3900]	[3600]	[24000]
HARDNESS (AS CACO3)	NC	mg/L	9900	11000	2300	3400	3700	20000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[2.7]	[10B]	0.27B	0.34B	[6.3]	[8.7]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	25U	25U	25U	14J	17J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.3U	2.5U	0.25U	0.50U	0.5U	2.5U
NITROGEN, NITRITE	1(S)	mg/L	1.3U	2.5U	0.25U	0.50U	0.5U	2.5U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	[250]	[1600]	200	190	[1100]	43J
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	18000	42000	3100	7800	8800	37000
TOTAL ORGANIC CARBON	NC	mg/L	4.3	0.30J	2.3	1.1	1.1	1.6
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.019]	[0.013]	[0.020]	[0.028]	[0.0082J]	[0.012]

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0057-02 SB915-MW-36I 05/31/2012 Regular sample	SB915-0057-01 SB915-MW-36S 05/31/2012 Regular sample	SB915-0041-05 SB915-MW-42D 04/24/2012 Regular sample	SB915-0041-04 SB915-MW-42I 04/24/2012 Regular sample	SB915-0043-06 SB915-MW-42S 04/26/2012 Regular sample	SB915-0052-02 SB915-MW-43S 05/23/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	230B	5.0U	5.0U	5R	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	230B	1100J	990	5R	1100B	750B	920B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	46J	37	5.0U	120	69	91
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	6.2	1.4J	6.0U	6.4	2.3	2.0U
BROMIDE	2(G)	mg/L	0.50U	1.0U	1.0U	20U	20U	[12]	1.4
CHEMICAL OXYGEN DEMAND	NC	mg/L	80B	96	39	3100B	3300B	2800B	380J
CHLORIDE	250(S)	mg/L	[1500]	[1000]	[380]	[52000]	[46000]	[18000]	[1600]
HARDNESS (AS CACO3)	NC	mg/L	1600	2100	1500	42000	43000	18000	2900
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.42B	[2.9B]	2.0B	[15J]	[9.2J]	1.4J	0.68B
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	25U	25U	26J	9.2J	5R	25U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.13U	0.25U	0.25U	5.0U	5.0U	2.5U	0.25U
NITROGEN, NITRITE	1(S)	mg/L	0.13U	0.25UJ	0.25UJ	5.0U	5.0U	2.5U	0.25U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	170	5R	15	160	100U	50U	2.9J
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	3100	3600	1800	80000	77000	39000	5500
TOTAL ORGANIC CARBON	NC	mg/L	0.84J	6.5J	3.7J	2.6	4	2.9	2.2
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	[0.012J]	[0.0076J]	[0.13]	[0.070]	[0.18]	[0.019]

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0048-01 SB915-MW-53D 05/03/2012 Regular sample	SB915-0048-02 SB915-MW-53I 05/03/2012 Regular sample	SB915-0047-03 SB915-MW-59S 05/02/2012 Regular sample	SB915-0047-04 SB915-MW-60S 05/02/2012 Regular sample	SB915-0047-02 SB915-MW-70D 05/02/2012 Regular sample	SB915-0047-01 SB915-MW-70S 05/02/2012 Regular sample	SB915-0052-03 SB915-MW-85D 05/23/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	210J	5.0U	5R	210J	5R	84J	17B
ALKALINITY, TOTAL	NC	mg/L	210J	1600B	5R	210J	5R	5R	17B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	98J	5.0U	5.0U	5.0U	5.0U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	32	5.3J	10	6.0U	7.2	2.0U
BROMIDE	2(G)	mg/L	0.43	[25]	[6.0]	[2.6]	[24]	[6.2]	[23]
CHEMICAL OXYGEN DEMAND	NC	mg/L	48J	5900J	1000J	430J	4900J	1800J	2000J
CHLORIDE	250(S)	mg/L	[470]	[60000]	[11000]	[5500]	[47000]	[9900]	[53000]
HARDNESS (AS CACO3)	NC	mg/L	720	53000	9000	5100	41000	8700	45000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	1.1	[16]	[9.9]	[6.3]	[22]	[6.7]	[18B]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	17J	17J	17J	28	25U	26
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.050U	5.0U	1.3U	0.50U	5.0U	1.3U	5.0U
NITROGEN, NITRITE	1(S)	mg/L	0.050U	5.0U	1.3U	0.50U	5.0U	1.3U	5.0U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	190	45J	56	12	23J	87	100U
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	1300J	100000	25000	12000	120000	22000	120000
TOTAL ORGANIC CARBON	NC	mg/L	0.75J	12	1.6	4	2.1	1.7	1.8
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	[0.39]	0.010U	0.0062J	[0.009J]	0.010U	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0044-04 SB915-MW-87BR 05/07/2012 Regular sample	SCA-0044-03 SB915-MW-87I 05/07/2012 Regular sample	SCA-0044-01 SB915-MW-87S 05/07/2012 Regular sample	SCA-0045-04 SB915-MW-88BR 05/08/2012 Regular sample	SCA-0045-03 SB915-MW-88D 05/08/2012 Regular sample	SCA-0045-02 SB915-MW-88I 05/08/2012 Regular sample	SCA-0045-01 SB915-MW-88S 05/08/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	49.3J	202J	144J	57.1J	15.7J	54.6	191J
ALKALINITY, TOTAL	NC	mg/L	49.5J	203J	146J	57.1J	15.7J	54.8	191J
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	1J	1.8J	1.4J	1.3J	7.8J	5.0U	2.6J
BROMIDE	2(G)	mg/L	[193]	[5.1J]	0.68J	[142]	[18.3]	[8.2]	[2.9J]
CHEMICAL OXYGEN DEMAND	NC	mg/L	2520	22.1	14.8J	2210	1410J	43.5	20U
CHLORIDE	250(S)	mg/L	[36800]	[1310]	146	[30100]	[11200]	[4840]	[943]
HARDNESS (AS CACO3)	NC	mg/L	29700	1200	333	23900	9880	4870	974
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[18.0J]	1.4	0.089J	[16.1]	[36]	[27.5]	[5.8]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	11.0J	1.9J	0.8U	97.9	271	232	34.4
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.028J	0.11U	1.1	0.039J	0.0095J	0.0067J	0.012J
NITROGEN, NITRITE	1(S)	mg/L	0.010U	0.010U	0.0071J	0.010U	0.010U	0.010U	0.010U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.028J	0.10U	1.1J	0.039J	0.0095J	0.0067J	0.012J
SULFATE	250(S)	mg/L	[1170]	248	49.9	[1110]	34.2	27.9	82.3
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	87000	3390	496	49400J	18400J	8420	2230J
TOTAL ORGANIC CARBON	NC	mg/L	1.0U	1.0U	2.1J	1.0J	2.8J	5.2J	2.3J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.20U	[0.029J]	0.20UJ	0.20UJ	0.20U	0.20UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID / Location / Sample Date / Sample Purpose	SB915-0058-01 / SB915-PZ-07D / 06/01/2012 / Regular sample	SB915-0058-02 / SB915-PZ-07I / 06/01/2012 / Regular sample	SB915-0058-03 / SB915-PZ-07S / 06/01/2012 / Regular sample	SB915-0053-02 / SB915-WB-01L / 05/24/2012 / Regular sample	SCA-0044-02 / SB915-WB-02L / 05/07/2012 / Regular sample	SB915-0057-03 / SB915-WB-03L / 05/31/2012 / Regular sample	SB915-0053-01 / SB915-WB-05M / 05/24/2012 / Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	290B	7.3J	73B	86B
ALKALINITY, TOTAL	NC	mg/L		950J	510J	1400	290B	72.8J	73B	86B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		120J	120J	53	5.0U	5.0U	5.0U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		10	4.4J	2.0U	2.0U	3J	1.6J	5.4J
BROMIDE	2(G)	mg/L		[10]	[14]	1.0U	0.20U	[81.0J]	[9.8J]	[6.0]
CHEMICAL OXYGEN DEMAND	NC	mg/L		1000U	920B	84B	16J	2420	2900	540J
CHLORIDE	250(S)	mg/L		[22000]	[33000]	[1300]	80	[45500]	[25000]	[15000]
HARDNESS (AS CACO3)	NC	mg/L		20000	28000	2900	880	41100	24000	11000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[12B]	[9.8B]	[6.6B]	0.25	[10.8]	[4.7B]	[20]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		23J	17J	25U	25U	10.8J	25U	34
NITROGEN, NITRATE (AS N)	10(S)	mg/L		2.5U	2.5U	0.25U	0.050U	0.11U	2.5U	1.3U
NITROGEN, NITRITE	1(S)	mg/L		2.5UJ	2.5UJ	0.25UJ	0.050U	0.010U	2.5UJ	1.3U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	0.10U	NA	NA
SULFATE	250(S)	mg/L		50U	50U	18	[550]	[836]	[530]	48
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		36000	54000	4600	1100	109000	43000	26000
TOTAL ORGANIC CARBON	NC	mg/L		3.0J	1.9J	1.7J	1.6	0.63J	0.27J	1.1
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.20J]	[0.022J]	[0.024J]	0.010U	[0.015J]	0.010U	[0.011]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID / Location / Sample Date / Sample Purpose	SB915-0046-04 / SB915-WB-05R / 05/01/2012 / Regular sample	SB915-0046-01 / SB915-WB-05U / 05/01/2012 / Regular sample	SB915-0052-01 / SB915-WB-06 / 05/23/2012 / Regular sample	SB915-0043-03 / SB915-WB-07L / 04/26/2012 / Regular sample	SB915-0043-04 / SB915-WB-07R / 04/26/2012 / Regular sample	SB915-0043-02 / SB915-WB-07U / 04/26/2012 / Regular sample	SB915-0041-01 / SB915-WB-09L / 04/24/2012 / Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		5R	0.41U	52B	5.0U	5R	140J	98J
ALKALINITY, TOTAL	NC	mg/L		5R	240B	52B	910B	5R	140J	98J
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		0.41U	63	5.0U	84	5.0U	5.0U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		2U	3.5	2.0U	29	2.0U	2.0U	2.3
BROMIDE	2(G)	mg/L		[380]	[5.8]	[23]	[12]	[75]	[6.0]	20U
CHEMICAL OXYGEN DEMAND	NC	mg/L		18000J	1300J	1400J	3300B	7400B	1700B	3100B
CHLORIDE	250(S)	mg/L		[130000]	[8100]	[56000]	[30000]	[97000]	[11000]	[35000]
HARDNESS (AS CACO3)	NC	mg/L		29000	7800	53000	21000	9000	8200	31000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[70B]	[2.5B]	[14B]	[5.7J]	[11J]	[3.2J]	1.6J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		68	25U	23J	5R	11J	5.0U	25U
NITROGEN, NITRATE (AS N)	10(S)	mg/L		21U	1.1U	5.0U	2.5U	13U	1.3U	5.0U
NITROGEN, NITRITE	1(S)	mg/L		12U	0.60U	5.0U	2.5U	13U	1.3U	5.0U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L		[1200]	35	100U	[280]	[4200]	[720]	[1100]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		230000	20000	120000	57000	180000	22000	57000
TOTAL ORGANIC CARBON	NC	mg/L		0.19U	3	0.92J	15	0.2J	0.69J	0.94J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.037]	[0.036]	0.010U	[0.013]	0.010U	0.010U	[0.0093J]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-0040-01 SB915-WB-09U 04/23/2012 Regular sample	SB915-0040-02 SB915-WB-10L 04/23/2012 Regular sample	SB915-0041-03 SB915-WB-10U 04/24/2012 Regular sample	SB915-0042-01 SB915-IMW-01S 04/25/2012 Regular sample	SB915-0042-07 SB915-IMW-03S 04/25/2012 Regular sample	SB915-0042-04 SB915-IMW-04S 04/25/2012 Regular sample	SB915-0042-03 SB915-IMW-05S 04/25/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		5.0U	5R	210B	150J	260J	90B	5.0U
ALKALINITY, TOTAL	NC	mg/L		240J	5R	210B	150J	260J	90B	220J
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		56	5.0U	5.0U	5.0U	5.0U	5.0U	87
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		9.6	6.1	26	2.2	42	7.5	16
BROMIDE	2(G)	mg/L		10U	20U	20U	5.0U	[9.6J]	1.4	5.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L		1100B	3300B	1500B	430	1300	210	840
CHLORIDE	250(S)	mg/L		[8800]	[44000]	[24000]	[9300]	[25000]	[3300]	[8700]
HARDNESS (AS CACO3)	NC	mg/L		9100	35000	18000	10000	21000	4000	9200
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[2.6J]	[6.5J]	[11J]	1.9J	[23J]	[3.4J]	[6.8J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		5.0U	5R	20J	10U	25J	6.8J	13J
NITROGEN, NITRATE (AS N)	10(S)	mg/L		2.5U	5.0U	5.0U	1.3U	2.5U	0.25U	1.3U
NITROGEN, NITRITE	1(S)	mg/L		2.5U	5.0U	5.0U	1.3U	2.5U	0.25U	1.3U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L		73J	[880]	100U	66J	50U	44J	34J
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		12000	67000	40000	16000	45000	5800	15000
TOTAL ORGANIC CARBON	NC	mg/L		5.7	1.1	10	1.5	19	6.1	9.7
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.028]	[0.0086J]	[0.62]	0.010U	[0.68]	0.010U	[0.049]

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0042-02 SB915-IMW-06S 04/25/2012 Regular sample	SB915-0049-04 WB18-MW-14BR 05/04/2012 Regular sample	SB915-0049-03 WB18-MW-14D 05/04/2012 Regular sample	SCA-0048-06 SB915-MW-100S 05/11/2012 Regular sample	SCA-0047-05 SB915-MW-101S 05/10/2012 Regular sample	SCA-0049-05 SB915-MW-102S 05/14/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	5.0U	5R	100J	17.5J	58.7J	130
ALKALINITY, TOTAL	NC	mg/L	640J	5R	100J	17.5J	58.9J	130
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	80	5.0U	5.0U	5.0U	5.0U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	6.8	2.0U	3.4J	8.8	14.9	5.0U
BROMIDE	2(G)	mg/L	5.0U	[120]	[13]	[8.7J]	[7.1J]	[8.6J]
CHEMICAL OXYGEN DEMAND	NC	mg/L	570	3800J	2200J	35.8	10.2J	40.5
CHLORIDE	250(S)	mg/L	[5900]	[120000]	[31000]	[5190]	[3610]	[1970]
HARDNESS (AS CACO3)	NC	mg/L	6800	12000	27000	4540	3530	2270J
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[3.6J]	[20]	[3.1]	[20.2]	[7.4]	[3.3]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	10U	17J	25U	28.4J	12.6J	5.2J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.3U	25U	2.5U	0.11U	0.12J	0.11U
NITROGEN, NITRITE	1(S)	mg/L	1.3U	25U	2.5U	0.010U	0.010U	0.010U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	0.10U	0.12J	0.10U
SULFATE	250(S)	mg/L	33J	[3100]	110	39.7	71.6	181
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	11000	180000	49000	9270	6620	3970J
TOTAL ORGANIC CARBON	NC	mg/L	4.8	1.0U	0.83J	2	3	1.1R
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.052]	[0.019]	0.010U	0.20U	0.20U	0.20U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0051-04 SB915-MW-103S 05/16/2012 Regular sample	SCA-0046-04 SB915-MW-89BR 05/09/2012 Regular sample	SCA-0046-03 SB915-MW-89D 05/09/2012 Regular sample	SCA-0046-02 SB915-MW-89I 05/09/2012 Regular sample	SCA-0046-01 SB915-MW-89S 05/09/2012 Regular sample	SCA-0047-04 SB915-MW-90BR 05/10/2012 Regular sample	SCA-0047-02 SB915-MW-90I 05/10/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	192	108J	47.5J	80.6J	75.4J	62.1J	52.8J
ALKALINITY, TOTAL	NC	mg/L	193	47.5J	80.9J	75.5J	260J	62.1J	52.9J
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	3.4U	2.4J	1.6J	2.1J	1.5J	1.9J	3.0J
BROMIDE	2(G)	mg/L	[3.5J]	[428]	[10.4J]	[6.3]	1.4J	[222]	[7.6J]
CHEMICAL OXYGEN DEMAND	NC	mg/L	30.5	3360	87	10.2J	20U	978	25.6J
CHLORIDE	250(S)	mg/L	[625]	[38400]	[5810]	[2970]	[469]	[23100]	[3680]
HARDNESS (AS CACO3)	NC	mg/L	1160J	23300	5170	2680	714	15800	3290
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.50J	[39.6]	[22.4]	[8.1]	1	[11.9]	[6.3]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	0.2Y	229	123	38.1	3.0J	13.9J	9.4J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.94J	0.021J	0.11U	0.11U	0.82	0.11U	0.11U
NITROGEN, NITRITE	1(S)	mg/L	0.031	0.010U	0.010U	0.010U	0.010U	0.010U	0.014
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.97J	0.021J	0.10U	0.10U	0.82	0.10U	0.10U
SULFATE	250(S)	mg/L	197	[1380]	19.6	65.9	94.7	[1430]	139
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	1920	85300J	12400J	5930J	1510	47100	6290
TOTAL ORGANIC CARBON	NC	mg/L	1.1R	0.48J	2.1J	1.8J	1.2J	1U	1.2
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0047-01 SB915-MW-90S 05/10/2012 Regular sample	SCA-0045-05 SB915-MW-91BR 05/08/2012 Regular sample	SCA-0050-04 SB915-MW-91D 05/15/2012 Regular sample	SCA-0050-03 SB915-MW-91I 05/15/2012 Regular sample	SCA-0050-02 SB915-MW-91SN 05/15/2012 Regular sample	SCA-0050-01 SB915-MW-91S 05/15/2012 Regular sample	SCA-0046-07 SB915-MW-92BR 05/09/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	146J	40.2J	109	149	189	9.3	5.0U
ALKALINITY, TOTAL	NC	mg/L	147J	41.9J	110	149	189	960	58.7J
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	605	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.6J	11.0J	3.4U	3.4U	3.4U	4.8U	3J
BROMIDE	2(G)	mg/L	[5.2J]	[305]	[8.7J]	[8.6J]	[9.2J]	[66.1J]	[251]
CHEMICAL OXYGEN DEMAND	NC	mg/L	10.2J	5460	35.4J	30.4J	15.2J	863	1260
CHLORIDE	250(S)	mg/L	[2010]	[75200]	[2220]	[2410]	[2920]	[16800]	[27800]
HARDNESS (AS CACO3)	NC	mg/L	2350	11700	2330J	3720J	2790J	18100J	15000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[4.4]	[17.6]	1.5	1.4	1.5	[4.3]	[23]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.4J	77.4	2.0J	1.7J	2.1J	8.1J	115
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.84J	0.24J	0.11U	0.11U	0.27	0.11U	0.054J
NITROGEN, NITRITE	1(S)	mg/L	0.010U	0.0083J	0.010U	0.010U	0.0065J	0.099	0.010U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.84J	0.25J	0.10U	0.10U	0.28	0.051J	0.054J
SULFATE	250(S)	mg/L	168	[3000]	210	224	236	[277]	[1480]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	4240	111000J	5340	5070	5890	32600	53800J
TOTAL ORGANIC CARBON	NC	mg/L	1.1	6.1J	1.0U	1.0U	1.0U	6.5J	0.99J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.20UJ	0.20U	0.20U	0.20U	0.20U	0.20U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0051-03 SB915-MW-92D 05/16/2012 Regular sample	SCA-0051-02 SB915-MW-92I 05/16/2012 Regular sample	SCA-0051-01 SB915-MW-92S 05/16/2012 Regular sample	SCA-0049-04 SB915-MW-93BR 05/14/2012 Regular sample	SCA-0049-03 SB915-MW-93D 05/14/2012 Regular sample	SCA-0049-02 SB915-MW-93I 05/14/2012 Regular sample	SCA-0049-01 SB915-MW-93S 05/14/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	201	134	7.4	31.5	152	151	117
ALKALINITY, TOTAL	NC	mg/L	201	135	833	31.5	153	151	117
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	480	5.0U	5.0U	5.0U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	3.4U	3.4U	3.0J	1.2J	3.4U	3.4U	3.4U
BROMIDE	2(G)	mg/L	[3.8J]	[11.2J]	[45.4J]	[812]	[9.9J]	[10.5J]	[5.9J]
CHEMICAL OXYGEN DEMAND	NC	mg/L	53.3	71.1	659	5810	20.3	43	15.2J
CHLORIDE	250(S)	mg/L	[784]	[2950]	[10600]	[72500]	[2120]	[2250]	[2070]
HARDNESS (AS CACO3)	NC	mg/L	1300J	2790J	9300J	40900J	2330J	2420J	2420J
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.15J	1.6	[8.8]	[37.4]	[4.4]	[4.9]	[5.6]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	0.2U	0.69	4.1	47.5J	4.6J	4.4J	6.2J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.2J	0.81J	0.11U	0.052J	0.030J	0.11U	0.11U
NITROGEN, NITRITE	1(S)	mg/L	0.027	0.014	0.15	0.010U	0.010U	0.010U	0.010U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	1.2J	0.82J	0.072J	0.052J	0.030J	0.10U	0.10U
SULFATE	250(S)	mg/L	175	157	16.7	[2010]	142	138	83.3
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	2060	5520	16800	170000J	6590J	4640J	3910J
TOTAL ORGANIC CARBON	NC	mg/L	1U	3.4J	28.4	1.0U	1.1R	1.2R	1.4R
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 15
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0048-01 SB915-MW-94S 05/11/2012 Regular sample	SCA-0048-02 SB915-MW-95S 05/11/2012 Regular sample	SCA-0048-03 SB915-MW-96S 05/11/2012 Regular sample	SCA-0048-04 SB915-MW-97S 05/11/2012 Regular sample	SCA-0046-05 SB915-MW-98S 05/09/2012 Regular sample	SCA-0048-05 SB915-MW-99S 05/11/2012 Regular sample	SCA-0047-03 SB915-WB-04L 05/10/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	423J	96.2J	229J	227J	226J	208J	44.5J
ALKALINITY, TOTAL	NC	mg/L	425J	96.7J	230J	228J	108J	209J	44.6J
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	3.4U	3.4U	3.4U	3.4U	1.8J	3.4U	7.2
BROMIDE	2(G)	mg/L	0.91J	1.6J	0.86J	1.3J	[3.1J]	[3.1J]	[15.3J]
CHEMICAL OXYGEN DEMAND	NC	mg/L	20U	7.7J	20U	20U	15.4J	20.5	1810
CHLORIDE	250(S)	mg/L	[268]	[594]	160	[532]	[809]	[1310]	[7780]
HARDNESS (AS CACO3)	NC	mg/L	771	686	498	696	1050	1520	6510
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.42J	0.23J	0.23J	0.77J	[5]	[5.9]	[18.9]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	0.80UJ	0.80UJ	0.8U	1.2J	18.2	6.4J	25.5J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.31J	0.39J	1.2J	0.54J	0.22	0.047J	0.11U
NITROGEN, NITRITE	1(S)	mg/L	0.010U	0.0018J	0.0027J	0.010U	0.010U	0.010U	0.010U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.31J	0.39J	1.2J	0.54J	0.22	0.047J	0.10U
SULFATE	250(S)	mg/L	27.4	131	83.7	84.1	73.3	96.2	72.1
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	1080	1530	667	1530	2580J	3110	14000
TOTAL ORGANIC CARBON	NC	mg/L	2.1	0.72J	1.8	1.1	1.6	1.1	1.6
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0043-01	SB915-0055-03	SB915-0056-01	SB915-0056-02	SB915-0055-02	SB915-0056-05	SB915-0055-01
		Location	SB915-IMW-02S	SB915-MW-01	SB915-MW-03	SB915-MW-04	SB915-MW-104I	SB915-MW-104S	SB915-MW-105BR
		Sample Date	04/26/2012	05/29/2012	05/30/2012	05/30/2012	05/29/2012	05/30/2012	05/29/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units							
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---	---	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	---	---	---	---	---
OCDD	0.0003	pg/L	0.00054	0.00072	---	0.00051	0.00141	0.0039	0.00147
OCDF	0.0003	pg/L	---	---	---	---	---	---	---
Total TEQ		pg/L	0.00054	0.00072	0	0.00051	0.00141	0.0039	0.00147

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0051-02	SB915-0051-01	SB915-0050-04	SB915-0050-03	SB915-0050-02	SB915-0050-01
		Location	SB915-MW-106I	SB915-MW-106S	SB915-MW-107BR	SB915-MW-107D	SB915-MW-107I	SB915-MW-107S
		Sample Date	05/18/2012	05/18/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units						
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	---	---	---	---
OCDD	0.0003	pg/L	---	0.00288	0.00102	---	0.00057	0.0045
OCDF	0.0003	pg/L	---	---	---	---	---	---
Total TEQ		pg/L	0	0.00288	0.00102	0	0.00057	0.0045

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0044-04	SB915-0044-03	SB915-0047-05	SB915-0047-06	SB915-0049-01	SB915-0043-05
		Location	SB915-MW-108BR	SB915-MW-108D	SB915-MW-108S	SB915-MW-109I	SB915-MW-109S	SB915-MW-110S
		Sample Date	04/27/2012	04/27/2012	05/02/2012	05/02/2012	05/04/2012	04/26/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units						
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	---	---	---	---
OCDD	0.0003	pg/L	0.00072	---	0.003	0.00225	0.00225	---
OCDF	0.0003	pg/L	---	---	---	---	---	---
Total TEQ		pg/L	0.00072	0	0.003	0.00225	0.00225	0

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0045-01	SB915-0045-02	SB915-0045-03	SB915-0045-04	SB915-0048-06	SB915-0048-05
		Location	SB915-MW-111BR	SB915-MW-111D	SB915-MW-111I	SB915-MW-111S	SB915-MW-112I	SB915-MW-112S
		Sample Date	04/30/2012	04/30/2012	04/30/2012	04/30/2012	05/03/2012	05/03/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units						
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---	---	---	0.0083
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	---	---	---	---
OCDD	0.0003	pg/L	0.00129	0.00099	---	---	0.0054	0.0075
OCDF	0.0003	pg/L	---	---	---	---	---	---
Total TEQ		pg/L	0.00129	0.00099	0	0	0.0054	0.0158

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0049-02	SB915-0054-03	SB915-0054-04	SB915-0054-02	SB915-0051-04	SB915-0053-05
		Location	SB915-MW-113S	SB915-MW-115BR	SB915-MW-116S	SB915-MW-117S	SB915-MW-118BR	SB915-MW-118S
		Sample Date	05/04/2012	05/25/2012	05/25/2012	05/25/2012	05/18/2012	05/24/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units						
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	---	---	---	---
OCDD	0.0003	pg/L	---	0.0018	0.00252	0.00054	0.00123	0.0045
OCDF	0.0003	pg/L	---	---	---	---	---	---
Total TEQ		pg/L	0	0.0018	0.00252	0.00054	0.00123	0.0045

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0057-02	SB915-0057-01	SB915-0041-05	SB915-0041-04	SB915-0043-06	SB915-0052-02	SB915-0048-01
		Location	SB915-MW-36I	SB915-MW-36S	SB915-MW-42D	SB915-MW-42I	SB915-MW-42S	SB915-MW-43S	SB915-MW-53D
		Sample Date	05/31/2012	05/31/2012	04/24/2012	04/24/2012	04/26/2012	05/23/2012	05/03/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units							
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---	---	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	---	---	---	---	---
OCDD	0.0003	pg/L	0.00039	---	0.00273	0.00114	---	0.00048	0.00048
OCDF	0.0003	pg/L	---	---	---	---	---	---	---
Total TEQ		pg/L	0.00039	0	0.00273	0.00114	0	0.00048	0.00048

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0048-02	SB915-0047-03	SB915-0047-04	SB915-0047-02	SB915-0047-01	SB915-0052-03	SB915-0058-01
		Location	SB915-MW-53I	SB915-MW-59S	SB915-MW-60S	SB915-MW-70D	SB915-MW-70S	SB915-MW-85D	SB915-PZ-07D
		Sample Date	05/03/2012	05/02/2012	05/02/2012	05/02/2012	05/02/2012	05/23/2012	06/01/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units							
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---	---	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	---	---	---	---	---
OCDD	0.0003	pg/L	---	0.0006	---	---	---	---	0.0033
OCDF	0.0003	pg/L	---	0.00066	---	---	---	---	---
Total TEQ		pg/L	0	0.00126	0	0	0	0	0.0033

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0058-01	SB915-0058-02	SB915-0058-03	SB915-0053-02	SB915-0057-03	SB915-0053-01	SB915-0046-04
		Location	SB915-PZ-07D	SB915-PZ-07I	SB915-PZ-07S	SB915-WB-01L	SB915-WB-03L	SB915-WB-05M	SB915-WB-05R
		Sample Date	06/01/2012	06/01/2012	06/01/2012	05/24/2012	05/31/2012	05/24/2012	05/01/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units							
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---	---	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	---	---	---	---	---
OCDD	0.0003	pg/L	0.0033	---	---	0.0006	---	0.0006	0.00132
OCDF	0.0003	pg/L	---	---	---	---	---	---	---
Total TEQ		pg/L	0.0033	0	0	0.0006	0	0.0006	0.00132

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0046-01	SB915-0052-01	SB915-0043-03	SB915-0043-04	SB915-0043-02	SB915-0041-01	SB915-0040-01
		Location	SB915-WB-05U	SB915-WB-06	SB915-WB-07L	SB915-WB-07R	SB915-WB-07U	SB915-WB-09L	SB915-WB-09U
		Sample Date	05/01/2012	05/23/2012	04/26/2012	04/26/2012	04/26/2012	04/24/2012	04/23/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units							
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---	---	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	0.14	---	---	---	---
OCDD	0.0003	pg/L	---	---	---	0.00123	---	0.00231	---
OCDF	0.0003	pg/L	---	---	---	---	---	---	---
Total TEQ		pg/L	0	0	0.14	0.00123	0	0.00231	0

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0040-02	SB915-0041-03	SB915-0042-01	SB915-0042-07	SB915-0042-04	SB915-0042-03
		Location	SB915-WB-10L	SB915-WB-10U	SB915-IMW-01S	SB915-IMW-03S	SB915-IMW-04S	SB915-IMW-05S
		Sample Date	04/23/2012	04/24/2012	04/25/2012	04/25/2012	04/25/2012	04/25/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units						
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---	0.027	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---	0.018	---	---
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	---	---	---	---
OCDD	0.0003	pg/L	0.00123	0.00129	0.0201	0.0117	0.00222	0.00216
OCDF	0.0003	pg/L	---	---	---	0.00096	---	---
Total TEQ		pg/L	0.00123	0.00129	0.0201	0.05766	0.00222	0.00216

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 16
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0042-02	SB915-0049-04	SB915-0049-03
		Location	SB915-IMW-06S	WB18-MW-14BR	WB18-MW-14D
		Sample Date	04/25/2012	05/04/2012	05/04/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units			
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	---	---	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	---	---	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	---	---	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	---	---	---
1,2,3,7,8-PECDD	1	pg/L	---	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	---	---	---
2,3,4,7,8-PECDF	0.3	pg/L	---	---	---
2,3,7,8-TCDD	1	pg/L	---	---	---
2,3,7,8-TCDF	0.1	pg/L	---	---	---
OCDD	0.0003	pg/L	0.0018	0.0051	---
OCDF	0.0003	pg/L	---	---	---
Total TEQ		pg/L	0.0018	0.0051	0

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample	SCA-0055-09 SB915-MW-100S 07/14/2012 Regular sample	SCA-0054-01 SB915-MW-101S 07/13/2012 Regular sample	SCA-0054-02 SB915-MW-102S 07/13/2012 Regular sample	SCA-0057-08 SB915-MW-103S 07/18/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0UJ	1.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	0.28J	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0UJ	1.0U	[5.8]	[10.1]	[5.7]	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	[7.4]	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0UJ	1.0U	[194]	[58.3]	[10]	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	5.0UJ	5.0UJ	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0UJ	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0UJ	1.0U	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0UJ	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	5.0UJ	5.0UJ	10UJ	10UJ	10UJ	10U
ACETONITRILE	NC	µg/L	20U	20U	NA	NA	NA	NA
ACROLEIN	NC	µg/L	20UJ	20U	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	20U	20U	50U	50U	50U	50U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	NA	NA	NA	NA
BENZENE	1(S)	µg/L	1.0U	1.0U	[20.0]	[5.2]	1.0U	0.34J
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0UJ	1.0UJ	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	1.0U	1.0U	2.0U	2.0U	2.0U	2.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample	SCA-0055-09 SB915-MW-100S 07/14/2012 Regular sample	SCA-0054-01 SB915-MW-101S 07/13/2012 Regular sample	SCA-0054-02 SB915-MW-102S 07/13/2012 Regular sample	SCA-0057-08 SB915-MW-103S 07/18/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	1.0U	1.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	[389]	[119]	[22.2]	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0UJ	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0U	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	0.94J	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	1.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U	1.0UJ	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	2.0U	2.0U	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	1.0U	1.0U	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	40R	40R	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	1.0U	1.0U	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.30J	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	0.84J	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0UJ	1.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.28J	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0UJ	1.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	1.0U	1.0UJ	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.4	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U	3.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0052-03 SB915-MW-87BR 07/11/2012 Regular sample	SCA-0052-04 SB915-MW-87I 07/11/2012 Regular sample	SCA-0052-02 SB915-MW-87S 07/11/2012 Regular sample	SCA-0053-04 SB915-MW-88BR 07/12/2012 Regular sample	SCA-0053-03 SB915-MW-88D 07/12/2012 Regular sample	SCA-0053-02 SB915-MW-88I 07/12/2012 Regular sample	SCA-0053-01 SB915-MW-88S 07/12/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[51.6]	1.2	0.24J
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[42.1]	[10.9]	0.55J
2,2-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10U	10U	10U	10U	10U	10UJ	10UJ
ACETONITRILE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACROLEIN	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U	50U
ALLYL CHLORIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
BENZENE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[9.0]	[3.7]	1.0U
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0052-03 SB915-MW-87BR 07/11/2012 Regular sample	SCA-0052-04 SB915-MW-87I 07/11/2012 Regular sample	SCA-0052-02 SB915-MW-87S 07/11/2012 Regular sample	SCA-0053-04 SB915-MW-88BR 07/12/2012 Regular sample	SCA-0053-03 SB915-MW-88D 07/12/2012 Regular sample	SCA-0053-02 SB915-MW-88I 07/12/2012 Regular sample	SCA-0053-01 SB915-MW-88S 07/12/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[37.2]	[48.0]	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0UJ	1.0UJ	1.0U	1.0U
CHLOROPRENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	0.42J	1.0U
IODOMETHANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	0.29J	0.42J	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0055-07 SB915-MW-89BR 07/14/2012 Regular sample	SCA-0055-06 SB915-MW-89D 07/14/2012 Regular sample	SCA-0055-05 SB915-MW-89I 07/14/2012 Regular sample	SCA-0055-04 SB915-MW-89S 07/14/2012 Regular sample	SCA-0056-04 SB915-MW-90BR 07/17/2012 Regular sample	SCA-0056-06 SB915-MW-90I 07/17/2012 Regular sample	SCA-0056-01 SB915-MW-90S 07/17/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	0.43J	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	[33.5]	[79.0]	1.0U	1.0U	[17.0]	[15.3]
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	[5.5]	0.50J
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	[18.1]	[93.4]	1.0U	1.0U	[69.3]	[28.6]
2,2-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10UJ	10UJ	10UJ	10UJ	10U	10U	10U
ACETONITRILE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACROLEIN	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U	50U
ALLYL CHLORIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
BENZENE	1(S)	µg/L	1.0U	[4.8]	[3.9]	1.0U	1.0U	[4.8]	0.30J
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0055-07 SB915-MW-89BR 07/14/2012 Regular sample	SCA-0055-06 SB915-MW-89D 07/14/2012 Regular sample	SCA-0055-05 SB915-MW-89I 07/14/2012 Regular sample	SCA-0055-04 SB915-MW-89S 07/14/2012 Regular sample	SCA-0056-04 SB915-MW-90BR 07/17/2012 Regular sample	SCA-0056-06 SB915-MW-90I 07/17/2012 Regular sample	SCA-0056-01 SB915-MW-90S 07/17/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	[320]	[118]	1.0U	1.0U	[146]	[29.0]
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	0.61J	0.26J	1.0U	1.0U	1.3	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.4	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	0.74J	0.39J	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.4	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0057-03 SB915-MW-91BR 07/18/2012 Regular sample	SCA-0057-06 SB915-MW-91D 07/18/2012 Regular sample	SCA-0057-01 SB915-MW-91I 07/18/2012 Regular sample	SCA-0057-02 SB915-MW-91SN 07/18/2012 Regular sample	SCA-0057-05 SB915-MW-91S 07/18/2012 Regular sample	SCA-0057-04 SB915-MW-92BR 07/18/2012 Regular sample	SCA-0056-09 SB915-MW-92D 07/17/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.5	[3.3]	0.39J	[47.5]	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	[5.6]	[1.2]	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.1	2.7	0.43J	[44.9]	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	5.7J	10U	10U	10U	[131]	10U	10U
ACETONITRILE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACROLEIN	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U	50U
ALLYL CHLORIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
BENZENE	1(S)	µg/L	[1.7]	0.90J	0.38J	[4.0]	[231]	1.0U	1.0U
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0057-03 SB915-MW-91BR 07/18/2012 Regular sample	SCA-0057-06 SB915-MW-91D 07/18/2012 Regular sample	SCA-0057-01 SB915-MW-91I 07/18/2012 Regular sample	SCA-0057-02 SB915-MW-91SN 07/18/2012 Regular sample	SCA-0057-05 SB915-MW-91S 07/18/2012 Regular sample	SCA-0057-04 SB915-MW-92BR 07/18/2012 Regular sample	SCA-0056-09 SB915-MW-92D 07/17/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	[29.3]	[37.9]	1.7	[115]	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	0.73J	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	0.66J	1.0U	1.0U
IODOMETHANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.51J	[41.5]	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	0.27J	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[8.0]	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0056-08 SB915-MW-92I 07/17/2012 Regular sample	SCA-0056-07 SB915-MW-92S 07/17/2012 Regular sample	SCA-0054-05 SB915-MW-93BR 07/13/2012 Regular sample	SCA-0054-06 SB915-MW-93D 07/13/2012 Regular sample	SCA-0054-04 SB915-MW-93I 07/13/2012 Regular sample	SCA-0054-03 SB915-MW-93S 07/13/2012 Regular sample	SCA-0052-01 SB915-MW-94S 07/11/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	2.7	[146]	1.0U	[10.7]	[9.9]	[6.8]	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	1.9	[72.7]	1.0U	[16.6]	[16.0]	[11.8]	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	10U	20.9	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	1.7J	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	26.8	[427]	10UJ	10UJ	10UJ	10UJ	10U
ACETONITRILE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACROLEIN	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U	50U
ALLYL CHLORIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
BENZENE	1(S)	µg/L	[10.3]	[119]	1.0U	1.0U	1.0U	0.39J	1.0U
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0056-08 SB915-MW-92I 07/17/2012 Regular sample	SCA-0056-07 SB915-MW-92S 07/17/2012 Regular sample	SCA-0054-05 SB915-MW-93BR 07/13/2012 Regular sample	SCA-0054-06 SB915-MW-93D 07/13/2012 Regular sample	SCA-0054-04 SB915-MW-93I 07/13/2012 Regular sample	SCA-0054-03 SB915-MW-93S 07/13/2012 Regular sample	SCA-0052-01 SB915-MW-94S 07/11/2012 Regular sample
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[6.9]	[354]	1.0U	[23.9]	[20.4]	[8.0J]	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	0.68J	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.7	[28.6]	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	0.26J	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	0.76J	[16.5]	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0053-05 SB915-MW-95S 07/12/2012 Regular sample	SCA-0057-09 SB915-MW-96S 07/18/2012 Regular sample	SCA-0055-03 SB915-MW-97S 07/14/2012 Regular sample	SCA-0055-02 SB915-MW-98S 07/14/2012 Regular sample	SCA-0055-08 SB915-MW-99S 07/14/2012 Regular sample	SCA-0052-07 SB915-WB-02L 07/11/2012 Regular sample	SCA-0056-05 SB915-WB-04L 07/17/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	[7.4]
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.8
1,1-DICHLOROPROPENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[14.6]	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	[9.4]
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
1,3-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[76.4]	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10U	10U	10UJ	10UJ	10UJ	10U	10U
ACETONITRILE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACROLEIN	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U	50U
ALLYL CHLORIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
BENZENE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[2.3]	1.0U	[13.1]
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 17
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0053-05 / SB915-MW-95S / 07/12/2012 / Regular sample	SCA-0057-09 / SB915-MW-96S / 07/18/2012 / Regular sample	SCA-0055-03 / SB915-MW-97S / 07/14/2012 / Regular sample	SCA-0055-02 / SB915-MW-98S / 07/14/2012 / Regular sample	SCA-0055-08 / SB915-MW-99S / 07/14/2012 / Regular sample	SCA-0052-07 / SB915-WB-02L / 07/11/2012 / Regular sample	SCA-0056-05 / SB915-WB-04L / 07/17/2012 / Regular sample
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[133]	1.0U	2.4
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	[17.2]
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL CYANIDE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
ISOBUTANOL	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYL METHACRYLATE	NC	µg/L	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.83J
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 18
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.8UJ	4.7UJ
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.96U	0.94U
1,3,5-TRINITROBENZENE	NC	µg/L	0.96U	0.94U
1,3-DINITROBENZENE	NC	µg/L	0.96U	0.94U
1,4-NAPHTHOQUINONE	NC	µg/L	0.96U	0.94U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.96U	0.94U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.96U	0.94U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.96U	0.94U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.96U	0.94U
2,4-DINITROPHENOL	10(G)	µg/L	4.8UJ	4.7UJ
2,4-DINITROTOLUENE	5(S)	µg/L	0.96U	0.94U
2,6-DICHLOROPHENOL	NC	µg/L	0.96U	0.94U
2,6-DINITROTOLUENE	5(S)	µg/L	0.96U	0.94U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.96U	0.94U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.96U	0.94U
2-METHYLNAPHTHALENE	NC	µg/L	0.19U	0.19U
2-METHYLPHENOL	1(S)	µg/L	0.96U	0.94U
2-NAPHTHYLAMINE	NC	µg/L	0.96U	0.94U
2-NITROANILINE	5(S)	µg/L	4.8U	4.7U
2-NITROPHENOL	1(S)	µg/L	0.96U	0.94U
3&4-METHYLPHENOL	NC	µg/L	0.96U	3.3
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.96U	0.94U
3-METHYLCHOLANTHRENE	NC	µg/L	0.96U	0.94U
3-NITROANILINE	5(S)	µg/L	4.8U	4.7U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.8U	4.7U
4-AMINOBIPHENYL	NC	µg/L	0.96U	0.94U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.96U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 18
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.96U	0.94U
4-CHLOROANILINE	5(S)	µg/L	0.96U	0.94U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.96U	0.94U
4-NITROANILINE	5(S)	µg/L	4.8U	4.7U
4-NITROPHENOL	1(S)	µg/L	4.8UJ	4.7UJ
5-NITRO-O-TOLUIDINE	NC	µg/L	0.96U	0.94U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.96U	0.94U
ACENAPHTHENE	20(G)	µg/L	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.96U	0.94U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.96U	0.94U
ANTHRACENE	50(G)	µg/L	0.19U	0.19U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.96U	0.94U
CHLOROBENZILATE	NC	µg/L	0.96UJ	0.94UJ
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.96U	0.94U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.96U	0.94U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9UJ	1.2J
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.96UJ	0.94U
DIALLATE	NC	µg/L	0.96U	0.94U
CHRYSENE	0.002(G)	µg/L	0.19U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.96U	0.94U
DIETHYL PHTHALATE	50(G)	µg/L	0.96U	0.94U
DIMETHYL PHTHALATE	50(G)	µg/L	0.96U	0.94U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.96U	0.94U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.96U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 18
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	0.19U	0.19U
FLUORENE	50(G)	µg/L	0.19U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.96R	0.94R
HEXACHLOROETHANE	5(S)	µg/L	0.96U	0.94U
HEXACHLOROPROPENE	NC	µg/L	0.96UJ	0.94UJ
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19U	0.19U
ISODRIN	NC	µg/L	0.96U	0.94U
ISOPHORONE	50(G)	µg/L	0.96U	0.94U
ISOSAFROLE	NC	µg/L	0.96U	0.94U
KEPONE	NC	µg/L	3.8UJ	3.8UJ
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.96U	0.94U
METHAPYRILENE	NC	µg/L	0.96UJ	0.94UJ
METHYL METHANESULFONATE	NC	µg/L	0.96UJ	0.94UJ
NAPHTHALENE	10(G)	µg/L	0.19U	0.19U
NITROBENZENE	0.4(S)	µg/L	1.9U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.96U	0.94U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.96U	0.94U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.96U	0.94U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.96U	0.94U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.96U	0.94U
N-NITROSOPIPERIDINE	NC	µg/L	0.96U	0.94U
N-NITROSOPYRROLIDINE	NC	µg/L	0.96U	0.94U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.96U	0.94U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.96U	0.94U
O-TOLUIDINE	NC	µg/L	0.96U	0.94U
PENTACHLOROBENZENE	NC	µg/L	0.96U	0.94U
PENTACHLORONITROBENZENE	NC	µg/L	0.96U	0.94U
PENTACHLOROPHENOL	1(S)	µg/L	0.96U	0.94U
PHENACETIN	NC	µg/L	0.96U	0.94U
PHENANTHRENE	50(G)	µg/L	0.19U	0.19U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 18
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
PHENOL	1(S)	µg/L	0.19U	[23J]
P-PHENYLENEDIAMINE	NC	µg/L	19UJ	19UJ
PRONAMIDE	NC	µg/L	0.96U	0.94U
PYRENE	50(G)	µg/L	0.19U	0.19U
SAFROLE	NC	µg/L	0.96U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 19
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012U	0.0012U
4,4'-DDE	0.2(S)	µg/L	0.0012U	0.0012U
4,4'-DDT	0.2(S)	µg/L	0.0012U	0.0012U
ALDRIN	NC	µg/L	0.0012U	0.0012U
ALPHA-BHC	0.01(S)	µg/L	0.0012U	0.0012U
BETA-BHC	0.04(S)	µg/L	0.0012U	0.0012U
CHLORDANE	0.05(S)	µg/L	0.012U	0.012U
DELTA-BHC	0.04(S)	µg/L	0.0012U	0.0012U
DIELDRIN	0.004(S)	µg/L	0.0012U	0.0012U
ENDOSULFAN I	NC	µg/L	0.0012U	0.0012U
ENDOSULFAN II	NC	µg/L	0.0012U	0.0012U
ENDOSULFAN SULFATE	NC	µg/L	0.0012U	0.0012UJ
ENDRIN	NC	µg/L	0.0012U	0.0012U
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012U	0.0012R
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012U	0.0012U
HEPTACHLOR	0.04(S)	µg/L	0.0012U	0.0012U
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012U	0.0012U
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012U	0.0012U
METHOXYCHLOR	35(S)	µg/L	0.0024UJ	0.0024UJ
TOXAPHENE	0.09(S)	µg/L	0.094U	0.095U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 20
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
DISULFOTON	NC	µg/L	0.094U	0.94U
ETHYL PARATHION	NC	µg/L	0.094U	0.94U
FAMPHUR	NC	µg/L	0.094U	0.94U
Methyl parathion	NC	µg/L	0.094U	0.94U
PHORATE	NC	µg/L	0.094U	0.94U
THIONAZIN	NC	µg/L	0.094U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 21
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
2,4,5-T	NC	µg/L	0.94U	0.94U
2,4,5-TP (SILVEX)	NC	µg/L	0.94U	0.94U
2,4-D	NC	µg/L	3.8U	3.8U
DINOSEB	NC	µg/L	0.85U	0.85U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 22
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
Total PCBs	90(S)	ng/L	2.2739	0.5709
109-PeCB	NC	ng/L	0.031QBC86J	0.031QBC86J
10-DiCB	NC	ng/L	0.038U	0.035U
112-PeCB	NC	ng/L	0.038U	0.035U
142-HxCB	NC	ng/L	0.038U	0.035U
143-HxCB	NC	ng/L	0.038U	0.035U
160-HxCB	NC	ng/L	0.015QBC129J	0.014QBC129J
161-HxCB	NC	ng/L	0.038U	0.035U
162-HxCB	NC	ng/L	0.038U	0.035U
164-HxCB	NC	ng/L	0.038U	0.035U
165-HxCB	NC	ng/L	0.038U	0.035U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.015J	0.035U
203-OcCB	NC	ng/L	0.0016QJ	0.035U
21-TrCB C33	NC	ng/L	0.064BC	0.0074QBCJ
59-TeCB C62/75	NC	ng/L	0.0063CJ	0.035U
64-TeCB	NC	ng/L	0.022BJ	0.0035QBJ
72-TeCB	NC	ng/L	0.038U	0.035U
98-PeCB C102	NC	ng/L	0.038U	0.035U
PCB 101	NC	ng/L	0.013QBC90J	0.035U
PCB 102 (BZ)	NC	ng/L	0.038U	0.035U
PCB 115 (BZ)	NC	ng/L	0.020BC110J	0.0045QBC110J
PCB 116 (BZ)	NC	ng/L	0.0034QC85J	0.035U
PCB 117 (BZ)	NC	ng/L	0.0034QC85J	0.035U
PCB 118	NC	ng/L	0.011QBJ	0.0029QBJ
PCB 125 (BZ)	NC	ng/L	0.031QBC86J	0.031QBC86J
PCB 13 (BZ)	NC	ng/L	0.0033QBC12J	0.0031QBC12J
PCB 138	NC	ng/L	0.015QBC129J	0.014QBC129J
PCB 153	NC	ng/L	0.0079QBCJ	0.0039QBCJ
PCB 163 (BZ)	NC	ng/L	0.015QBC129J	0.014QBC129J
PCB 209	NC	ng/L	0.038U	0.035U
PCB 28	NC	ng/L	0.094BC20	0.012BC20J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 22
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
PCB 30	NC	ng/L	0.095BC18	0.013BC18J
PCB 52	NC	ng/L	0.051B	0.011QBJ
PCB 75 (BZ)	NC	ng/L	0.0063C59J	0.035U
PCB 91 (BZ)	NC	ng/L	0.0038QC88J	0.035U
PCB-1	NC	ng/L	0.003QBJ	0.035U
PCB-100	NC	ng/L	0.038U	0.035U
PCB-103	NC	ng/L	0.038U	0.035U
PCB-104	NC	ng/L	0.038U	0.035U
PCB-105	NC	ng/L	0.0089QJ	0.0034BJ
PCB-106/118	NC	ng/L	0.038U	0.035U
PCB-107/109	NC	ng/L	0.038U	0.035U
PCB-108/112	NC	ng/L	0.038U	0.035U
PCB-11	NC	ng/L	0.03QBJ	0.033QBJ
PCB-110	NC	ng/L	0.02BCJ	0.0045QBCJ
PCB-111/115	NC	ng/L	0.038U	0.035U
PCB-113	NC	ng/L	0.013QBC90J	0.035U
PCB-114	NC	ng/L	0.038U	0.035U
PCB-119	NC	ng/L	0.031QBC86J	0.031QBC86J
PCB-12/13	NC	ng/L	0.0033QBCJ	0.0031QBCJ
PCB-120	NC	ng/L	0.038U	0.035U
PCB-121	NC	ng/L	0.038U	0.035U
PCB-122	NC	ng/L	0.038U	0.035U
PCB-123	NC	ng/L	0.038U	0.035U
PCB-124	NC	ng/L	0.038U	0.035U
PCB-126	NC	ng/L	0.038U	0.035U
PCB-127	NC	ng/L	0.038U	0.035U
PCB-128/162	NC	ng/L	0.038U	0.035U
PCB-129	NC	ng/L	0.015QBCJ	0.014QBCJ
PCB-130	NC	ng/L	0.038U	0.035U
PCB-131	NC	ng/L	0.038U	0.035U
PCB-132/161	NC	ng/L	0.0033QJ	0.035U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 22
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
PCB-133/142	NC	ng/L	0.038U	0.035U
PCB-134/143	NC	ng/L	0.038U	0.035U
PCB-135	NC	ng/L	0.038U	0.035U
PCB-136	NC	ng/L	0.038U	0.035U
PCB-137	NC	ng/L	0.038U	0.035U
PCB-139/149	NC	ng/L	0.038U	0.035U
PCB-14	NC	ng/L	0.038U	0.035U
PCB-140	NC	ng/L	0.038U	0.035U
PCB-141	NC	ng/L	0.038U	0.035U
PCB-144	NC	ng/L	0.038U	0.035U
PCB-145	NC	ng/L	0.038U	0.035U
PCB-146/165	NC	ng/L	0.038U	0.035U
PCB-147	NC	ng/L	0.0069QCJ	0.0054QCJ
PCB-148	NC	ng/L	0.038U	0.035U
PCB-149	NC	ng/L	0.0069QC147J	0.0054QC147J
PCB-15	NC	ng/L	0.02QBJ	0.0054QBJ
PCB-150	NC	ng/L	0.038U	0.035U
PCB-151	NC	ng/L	0.038U	0.035U
PCB-152	NC	ng/L	0.038U	0.035U
PCB-153	NC	ng/L	0.0089C83J	0.035U
PCB-154	NC	ng/L	0.038U	0.035U
PCB-155	NC	ng/L	0.038U	0.035U
PCB-156	NC	ng/L	0.038U	0.035U
PCB-157	NC	ng/L	0.038U	0.035U
PCB-158/160	NC	ng/L	0.038U	0.035U
PCB-159	NC	ng/L	0.038U	0.035U
PCB-16/32	NC	ng/L	0.039Q	0.035U
PCB-166	NC	ng/L	0.038U	0.035U
PCB-167	NC	ng/L	0.038U	0.035U
PCB-168	NC	ng/L	0.0079QBC153J	0.0039QBC153J
PCB-169	NC	ng/L	0.038U	0.035U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 22
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
PCB-17	NC	ng/L	0.035QJ	0.035U
PCB-170	NC	ng/L	0.038U	0.035U
PCB-171	NC	ng/L	0.038U	0.035U
PCB-172	NC	ng/L	0.038U	0.035U
PCB-173	NC	ng/L	0.038U	0.035U
PCB-174	NC	ng/L	0.038U	0.035U
PCB-175	NC	ng/L	0.038U	0.035U
PCB-176	NC	ng/L	0.038U	0.035U
PCB-177	NC	ng/L	0.038U	0.035U
PCB-178	NC	ng/L	0.038U	0.035U
PCB-179	NC	ng/L	0.038U	0.035U
PCB-18	NC	ng/L	0.095BC	0.013BCJ
PCB-180	NC	ng/L	0.0038QBCJ	0.035U
PCB-181	NC	ng/L	0.038U	0.035U
PCB-182/187	NC	ng/L	0.038U	0.035U
PCB-183	NC	ng/L	0.038U	0.035U
PCB-184	NC	ng/L	0.038U	0.035U
PCB-185	NC	ng/L	0.038U	0.035U
PCB-186	NC	ng/L	0.038U	0.035U
PCB-188	NC	ng/L	0.038U	0.035U
PCB-189	NC	ng/L	0.038U	0.035U
PCB-19	NC	ng/L	0.012J	0.035U
PCB-190	NC	ng/L	0.038U	0.035U
PCB-191	NC	ng/L	0.038U	0.035U
PCB-192	NC	ng/L	0.038U	0.035U
PCB-193	NC	ng/L	0.0038QBC180J	0.035U
PCB-194	NC	ng/L	0.038U	0.035U
PCB-195	NC	ng/L	0.038U	0.035U
PCB-196/203	NC	ng/L	0.038U	0.035U
PCB-197	NC	ng/L	0.038U	0.035U
PCB-198	NC	ng/L	0.038U	0.035U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 22
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
PCB-199	NC	ng/L	0.038U	0.035U
PCB-2	NC	ng/L	0.0025BJ	0.035U
PCB-20/21/33	NC	ng/L	0.094BC	0.012BCJ
PCB-200	NC	ng/L	0.038U	0.035U
PCB-201	NC	ng/L	0.038U	0.035U
PCB-202	NC	ng/L	0.038U	0.035U
PCB-204	NC	ng/L	0.038U	0.035U
PCB-205	NC	ng/L	0.038U	0.035U
PCB-206	NC	ng/L	0.038U	0.035U
PCB-207	NC	ng/L	0.038U	0.035U
PCB-208	NC	ng/L	0.038U	0.035U
PCB-22	NC	ng/L	0.046B	0.0061BJ
PCB-23	NC	ng/L	0.038U	0.035U
PCB-24/27	NC	ng/L	0.0026QJ	0.035U
PCB-25	NC	ng/L	0.0066QBJ	0.035U
PCB-26	NC	ng/L	0.017CJ	0.035U
PCB-27	NC	ng/L	0.0041QJ	0.035U
PCB-29	NC	ng/L	0.017C26J	0.035U
PCB-3	NC	ng/L	0.038U	0.035U
PCB-31	NC	ng/L	0.081B	0.014BJ
PCB-32	NC	ng/L	0.024QBJ	0.035U
PCB-33	NC	ng/L	0.064BC21	0.0074QBC21J
PCB-34	NC	ng/L	0.038U	0.035U
PCB-35	NC	ng/L	0.038U	0.035U
PCB-36	NC	ng/L	0.038U	0.035U
PCB-37	NC	ng/L	0.03BJ	0.0049QBJ
PCB-38	NC	ng/L	0.038U	0.035U
PCB-39	NC	ng/L	0.038U	0.035U
PCB-4/10	NC	ng/L	0.017QBJ	0.0052QBJ
PCB-40	NC	ng/L	0.037CJ	0.0053CJ
PCB-41/64/71/72	NC	ng/L	0.037C40J	0.0053C40J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 22
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
PCB-42/59	NC	ng/L	0.018J	0.035U
PCB-43/49	NC	ng/L	0.038U	0.035U
PCB-44	NC	ng/L	0.058BC	0.011QBCJ
PCB-45	NC	ng/L	0.013QCJ	0.035U
PCB-46	NC	ng/L	0.0045QJ	0.035U
PCB-47	NC	ng/L	0.058BC44	0.011QBC44J
PCB-48/75	NC	ng/L	0.016J	0.035U
PCB-49	NC	ng/L	0.029BCJ	0.0064BCJ
PCB-5	NC	ng/L	0.038U	0.035U
PCB-50	NC	ng/L	0.0089QCJ	0.035U
PCB-51	NC	ng/L	0.013QC45J	0.035U
PCB-53	NC	ng/L	0.0089QC50J	0.035U
PCB-54	NC	ng/L	0.038U	0.035U
PCB-55	NC	ng/L	0.0037QJ	0.035U
PCB-56/60	NC	ng/L	0.022J	0.0026QJ
PCB-57	NC	ng/L	0.038U	0.035U
PCB-58	NC	ng/L	0.038U	0.035U
PCB-6	NC	ng/L	0.0064QBJ	0.0044QBJ
PCB-61/70	NC	ng/L	0.071BC	0.013QBCJ
PCB-62	NC	ng/L	0.0063C59J	0.035U
PCB-63	NC	ng/L	0.0019J	0.035U
PCB-65	NC	ng/L	0.058BC44	0.011QBC44J
PCB-66	NC	ng/L	0.036QJ	0.0072QBJ
PCB-67	NC	ng/L	0.0013QJ	0.035U
PCB-68	NC	ng/L	0.038U	0.035U
PCB-69	NC	ng/L	0.029BC49J	0.0064BC49J
PCB-7/9	NC	ng/L	0.038U	0.035U
PCB-70	NC	ng/L	0.071BC61	0.013QBC61J
PCB-71	NC	ng/L	0.037C40J	0.0053C40J
PCB-73	NC	ng/L	0.038U	0.035U
PCB-74	NC	ng/L	0.071BC61	0.013QBC61J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 22
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
PCB-76/66	NC	ng/L	0.071BC61	0.013QBC61J
PCB-77	NC	ng/L	0.0026QJ	0.035U
PCB-78	NC	ng/L	0.038U	0.035U
PCB-79	NC	ng/L	0.038U	0.035U
PCB-8	NC	ng/L	0.037QBJ	0.013QBJ
PCB-80	NC	ng/L	0.038U	0.035U
PCB-81	NC	ng/L	0.038U	0.035U
PCB-82	NC	ng/L	0.0036J	0.035U
PCB-83	NC	ng/L	0.0089CJ	0.035U
PCB-84/92	NC	ng/L	0.038U	0.035U
PCB-85/116	NC	ng/L	0.0034QCJ	0.035U
PCB-86	NC	ng/L	0.031QBCJ	0.031QBCJ
PCB-87	NC	ng/L	0.031QBC86J	0.031QBC86J
PCB-88/91	NC	ng/L	0.0038QCJ	0.035U
PCB-89	NC	ng/L	0.038U	0.035U
PCB-9	NC	ng/L	0.0042QJ	0.035U
PCB-90/101	NC	ng/L	0.013QBCJ	0.035U
PCB-92	NC	ng/L	0.038U	0.035U
PCB-93	NC	ng/L	0.038U	0.035U
PCB-94	NC	ng/L	0.038U	0.035U
PCB-95/98/102	NC	ng/L	0.017QJ	0.035U
PCB-96	NC	ng/L	0.038U	0.035U
PCB-97	NC	ng/L	0.031QBC86J	0.031QBC86J
Total Di-CB	NC	ng/L	0.12EPMC,U	0.064EPMC,U
Total Hepta-CB	NC	ng/L	0.0038EPMC,U	0.035U
Total Hexa-CB	NC	ng/L	0.033EPMC,U	0.023EPMC,U
Total Mono-CB	NC	ng/L	0.0056EPMC,U	0.035U
Total Nona-CB	NC	ng/L	0.038U	0.035U
Total Octa-CB	NC	ng/L	0.0016EPMC,U	0.035U
Total Penta-CB	NC	ng/L	0.12EPMC,U	0.042EPMC,U
Total Tetra-CB	NC	ng/L	0.42EPMC	0.060EPMC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 22
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 1668 PCB Congener and Homolog Data

		Field Sample ID	SB915-0067-01	SB915-0064-01
		Location	SB915-MW-36D	SB915-WB-05L
	NYS	Sample Date	07/27/2012	07/25/2012
	Class GA	Sample Purpose	Regular sample	Regular sample
Parameter Name	Criteria	Units		
Total Tri-CB	NC	ng/L	0.55EPMC	0.057EPMC,U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0060-02 SB915-IMW-01S 07/20/2012 Regular sample	SB915-0060-09 SB915-IMW-02S 07/20/2012 Regular sample	SB915-0060-07 SB915-IMW-03S 07/20/2012 Regular sample	SB915-0060-08 SB915-IMW-04S 07/20/2012 Regular sample	SB915-0060-06 SB915-IMW-05S 07/20/2012 Regular sample	SB915-0060-05 SB915-IMW-06S 07/20/2012 Regular sample	SB915-0066-01 SB915-MW-03 07/27/2012 Regular sample
ALUMINUM	NC	mg/L	2U	2U	2U	2U	2U	2U	2U
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	[0.027J]	0.1U	0.1U	0.1U
BARIUM	1(S)	mg/L	[1.3J]	[3.6]	[6.8]	0.62J	0.81J	[1.4J]	0.11J
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	1(S)	mg/L	2U	2U	2U	2U	2U	2U	0.09J
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	[0.0062J]	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	3400	7100B	10000B	1400	3500	3100	1300
CHROMIUM	0.05(S)	mg/L	0.011J	0.05U	0.015J	0.0069J	0.05U	0.0059J	0.05U
COBALT	NC	mg/L	0.0067J	0.013J	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	0.2(S)	mg/L	0.25U	0.25U	[0.27]	0.25U	0.25U	0.25U	0.25U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[2.7]	[5.3]	[260]	[5.8]	0.14J	0.16J	[8.4J]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[86]	[63]	[170]	6J	50U	6.1J	[49J]
MANGANESE	0.3(S)	mg/L	[3.2]	[13]	[18]	[2]	0.15U	[0.42]	[1.1]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	0.02J	0.018J	0.018J	0.4U	0.4U	0.028J	0.4U
POTASSIUM	NC	mg/L	70	100	180	77	170	140	72
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)	mg/L	[2000]	[4600]	[6300]	[610]	[1700]	[1400]	[1700]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	mg/L	1U	1U	1U	1U	1U	1U	1U
VANADIUM	NC	mg/L	0.5U	0.5U	0.019J	0.5U	0.5U	0.5U	0.5U
ZINC	2(G)	mg/L	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0065-07 SB915-MW-04 07/26/2012 Regular sample	SB915-0066-03 SB915-MW-104I 07/27/2012 Regular sample	SB915-0069-06 SB915-MW-104S 07/31/2012 Regular sample	SB915-0066-05 SB915-MW-105BR 07/27/2012 Regular sample	SB915-0065-04 SB915-MW-106I 07/26/2012 Regular sample	SB915-0065-03 SB915-MW-106S 07/26/2012 Regular sample
ALUMINUM	NC	mg/L	2U	2U	2U	2U	2U	2U
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	1(S)	mg/L	0.63J	0.046J	[32]	0.059J	[7.8]	0.14J
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	1(S)	mg/L	2U	0.035J	2U	0.1J	2U	2U
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	4300	180	18000	80	3800	150
CHROMIUM	0.05(S)	mg/L	0.05U	0.05U	0.0083J	0.014J	0.05U	0.0073J
COBALT	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	0.2(S)	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[33]	1UJ	[31J]	[0.7J]	[14]	1U
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[360]	[37J]	[600]	8.6J	[260]	[42J]
MANGANESE	0.3(S)	mg/L	[19]	0.13J	[11]	0.099J	[2.4]	0.11J
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	0.019J	0.4U	0.052J	0.4U	0.4U	0.018J
POTASSIUM	NC	mg/L	23J	50U	21J	8.1J	22J	50U
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.0072J	0.05U	0.05U
SODIUM	20(S)	mg/L	[3900]	[89]	[13000]	[76]	[3100]	[80]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	mg/L	1U	1U	1U	1U	1U	1U
VANADIUM	NC	mg/L	0.5U	0.5U	0.033J	0.5U	0.5U	0.5U
ZINC	2(G)	mg/L	0.066J	0.2U	0.3B	0.2U	0.2U	0.035J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0066-02 SB915-MW-107BR 07/27/2012 Regular sample	SB915-0065-09 SB915-MW-107D 07/26/2012 Regular sample	SB915-0065-10 SB915-MW-107I 07/26/2012 Regular sample	SB915-0065-11 SB915-MW-107S 07/26/2012 Regular sample	SB915-0061-07 SB915-MW-108BR 07/23/2012 Regular sample	SB915-0061-08 SB915-MW-108D 07/23/2012 Regular sample
ALUMINUM	NC	mg/L	2U	2U	2U	2U	0.55J	0.24J
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	[0.019J]	0.1U	[0.016J]
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	1(S)	mg/L	0.047J	0.12J	0.084J	[7.4]	0.011J	0.06J
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	1(S)	mg/L	[2.7]	2U	2U	2U	2U	2U
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	2400	11000	1500	8700	560	150
CHROMIUM	0.05(S)	mg/L	[0.12]	0.05U	0.05U	0.05U	0.0058J	0.0065J
COBALT	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	0.2(S)	mg/L	0.069J	0.25U	0.25U	0.25U	0.25U	0.25U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[19J]	[16]	[4.9]	[9.1]	[2.3J]	1UJ
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[460]	[420]	[74]	[660]	[58]	[36J]
MANGANESE	0.3(S)	mg/L	[2.6]	[4.8]	[0.75]	[22]	0.29	0.17
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	[0.24J]	0.019J	0.4U	0.04J	0.017J	0.4U
POTASSIUM	NC	mg/L	610	370	25J	17J	24J	50U
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)	mg/L	[59000]	[30000]	[940]	[6200]	[100]	[56]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	mg/L	0.02J	1U	1U	1U	1U	1U
VANADIUM	NC	mg/L	0.044J	0.026J	0.021J	0.051J	0.5U	0.019J
ZINC	2(G)	mg/L	0.2U	0.32	0.11J	0.055J	0.2U	0.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0061-06 SB915-MW-109I 07/23/2012 Regular sample	SB915-0061-05 SB915-MW-109S 07/23/2012 Regular sample	SB915-0060-10 SB915-MW-110S 07/20/2012 Regular sample	SB915-0061-04 SB915-MW-111BR 07/23/2012 Regular sample	SB915-0061-03 SB915-MW-111D 07/23/2012 Regular sample	SB915-0061-02 SB915-MW-111I 07/23/2012 Regular sample
ALUMINUM	NC	mg/L	1.7J	0.32J	2U	0.41J	12	0.23J
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	1(S)	mg/L	0.73J	[2.1]	0.96J	0.15J	[3.4]	0.95J
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	1(S)	mg/L	2U	2U	2U	[24]	2U	2U
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.002J	0.0014J	0.0017J
CALCIUM	NC	mg/L	4100	5900	1100	19000	18000	13000
CHROMIUM	0.05(S)	mg/L	0.017J	0.05U	0.05U	0.012J	0.026J	0.05U
COBALT	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	0.2(S)	mg/L	0.25U	0.25U	0.25U	0.11J	0.25U	0.25U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[3.3J]	1UJ	[34]	[100J]	[95J]	[81J]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[72]	50U	20J	[3800]	[200]	[240]
MANGANESE	0.3(S)	mg/L	[0.39]	0.15U	[4.9]	[27]	[7.4]	[6.1]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	0.022J	0.021J	0.4U	0.022J	0.029J	0.4U
POTASSIUM	NC	mg/L	150	290	43J	3700	260	200
SELENIUM	0.01(S)	mg/L	[0.036J]	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)	mg/L	[2400]	[3600]	[580]	[33000]	[14000]	[8900]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	mg/L	1U	1U	1U	1U	1U	1U
VANADIUM	NC	mg/L	0.5U	0.5U	0.5U	0.049J	0.023J	0.5U
ZINC	2(G)	mg/L	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0061-01 SB915-MW-111S 07/23/2012 Regular sample	SB915-0059-11 SB915-MW-112I 07/19/2012 Regular sample	SB915-0059-10 SB915-MW-112S 07/19/2012 Regular sample	SB915-0059-01 SB915-MW-113S 07/19/2012 Regular sample	SB915-0065-06 SB915-MW-115BR 07/26/2012 Regular sample	SB915-0066-06 SB915-MW-116S 07/27/2012 Regular sample
ALUMINUM	NC	mg/L	0.59J	2U	2U	2U	2U	2U
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	[0.016J]	[0.014J]	0.1U	0.1U
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	0.1U	[0.027J]	0.1U
BARIUM	1(S)	mg/L	[2.8]	[1.5J]	0.17J	0.71J	0.091J	0.13J
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.0026J
BORON	1(S)	mg/L	2U	2U	2U	2U	2U	0.1J
CADMIUM	0.005(S)	mg/L	0.05U	0.0014J	0.05U	0.0013J	0.05U	0.05U
CALCIUM	NC	mg/L	3700	13000B	1700	4100	3700	380
CHROMIUM	0.05(S)	mg/L	0.05U	0.023J	0.05U	0.02J	0.05U	0.0058J
COBALT	NC	mg/L	0.5U	0.0063J	0.5U	0.0041J	0.5U	0.5U
COPPER	0.2(S)	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[110J]	[52]	1U	[15]	[12]	[0.32J]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[87]	[91]	1.4J	[69]	[320]	[54]
MANGANESE	0.3(S)	mg/L	[4.3]	[16]	[0.37]	[0.98]	[1.7]	[0.92]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	0.4U	0.033J	0.4U	0.018J	0.4U	0.4U
POTASSIUM	NC	mg/L	42J	170	87	81	200	8.4J
SELENIUM	0.01(S)	mg/L	[0.036J]	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)	mg/L	[2300]	[8100]	[720]	[2300]	[11000]	[260]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	mg/L	1U	1U	1U	1U	1U	1U
VANADIUM	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.019J	0.5U
ZINC	2(G)	mg/L	0.2U	0.2U	0.2U	0.2U	0.2	0.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0065-08 SB915-MW-117S 07/26/2012 Regular sample	SB915-0065-02 SB915-MW-118BR 07/26/2012 Regular sample	SB915-0065-01 SB915-MW-118S 07/26/2012 Regular sample	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0066-04 SB915-MW-36I 07/27/2012 Regular sample	SB915-0059-08 SB915-MW-42D 07/19/2012 Regular sample	SB915-0059-07 SB915-MW-42I 07/19/2012 Regular sample
ALUMINUM	NC	mg/L	4.2	2U	2U	2U	2U	2U	2U
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	[0.013J]
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	1(S)	mg/L	0.34J	0.03J	[4.6]	0.12J	[4.5]	[15]	[4.6]
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	1(S)	mg/L	2U	2U	2U	0.045J	2U	2U	2U
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.0028J	0.05U
CALCIUM	NC	mg/L	1600	1300	5900	540	12000	16000B	15000B
CHROMIUM	0.05(S)	mg/L	0.01J	0.05U	0.011J	0.013J	0.008J	0.01J	0.047J
COBALT	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	0.2(S)	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.1J
CYANIDE	0.2(S)	mg/L	NA	NA	NA	0.01U	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	0.01U	NA	NA	NA
IRON	0.3(S)	mg/L	[11]	[7.1]	[9.6]	[5.9J]	1UJ	[120]	1U
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[220]	[52]	[400]	[79]	0.38J	[200]	0.54J
MANGANESE	0.3(S)	mg/L	[2.3]	[0.47]	[5.3]	0.1J	0.15U	[3.8]	0.012J
MERCURY	0.0007(S)	mg/L	NA	NA	NA	1.4e-006J	NA	NA	NA
NICKEL	0.1(S)	mg/L	0.018J	0.4U	0.025J	0.022J	0.4U	0.4U	0.058J
POTASSIUM	NC	mg/L	11J	45J	230	50U	250	210	470
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)	mg/L	[1500]	[1000]	[6100]	[370]	[7200]	[11000]	[9500]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	mg/L	1U	1U	1U	1U	1U	1U	1U
VANADIUM	NC	mg/L	0.5U	0.5U	0.043J	0.5U	0.5U	0.027J	0.5U
ZINC	2(G)	mg/L	0.038J	0.2U	0.029J	0.2U	0.2U	0.2U	0.23B

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0069-07 SB915-MW-53D 07/31/2012 Regular sample	SB915-0069-08 SB915-MW-53I 07/31/2012 Regular sample	SB915-0062-08 SB915-MW-59S 07/24/2012 Regular sample	SB915-0062-10 SB915-MW-60S 07/24/2012 Regular sample	SB915-0062-06 SB915-MW-70D 07/24/2012 Regular sample	SB915-0062-05 SB915-MW-70S 07/24/2012 Regular sample	SB915-0068-02 SB915-MW-85D 07/30/2012 Regular sample
ALUMINUM	NC	mg/L	2U	2U	2U	2U	2U	2U	2U
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	1(S)	mg/L	0.033J	[3.8]	0.61J	0.89J	[8.7]	0.76J	[34]
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	1(S)	mg/L	0.09J	2U	2U	2U	2U	2U	0.17J
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	240	19000	2700	1700	14000	2500	17000
CHROMIUM	0.05(S)	mg/L	0.012J	0.026J	0.05U	0.05U	0.05U	0.05U	0.0085J
COBALT	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	0.2(S)	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[1.7J]	1UJ	[13J]	[35J]	[75J]	[19J]	[97J]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	28J	0.38J	[210]	[52]	[180]	[110]	[150]
MANGANESE	0.3(S)	mg/L	0.1J	0.15U	[0.73]	[1.5]	[2.7]	[0.68]	[3.4]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	0.4U	[0.11J]	0.4U	0.4U	0.4U	0.4U	0.4U
POTASSIUM	NC	mg/L	9.5J	590	100	44J	220	76	240
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)	mg/L	[150]	[13000]	[2000]	[1100]	[9300]	[1500]	[11000]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	[0.026J]
TIN	NC	mg/L	1U	1U	0.023J	1U	1U	1U	1U
VANADIUM	NC	mg/L	0.5U	0.5U	0.022J	0.5U	0.5U	0.026J	0.021J
ZINC	2(G)	mg/L	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.23B

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0069-05 SB915-PZ-07D 07/31/2012 Regular sample	SB915-0069-02 SB915-PZ-07I 07/31/2012 Regular sample	SB915-0069-01 SB915-PZ-07S 07/31/2012 Regular sample	SB915-0068-04 SB915-WB-01L 07/30/2012 Regular sample	SB915-0068-01 SB915-WB-03L 07/30/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample	SB915-0063-05 SB915-WB-05M 07/25/2012 Regular sample
ALUMINUM	NC	mg/L	5.1B	2U	2U	2U	2U	0.28J	2U
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	1(S)	mg/L	[4.5]	[3.1]	0.53J	0.011J	0.16J	0.71J	[1.3J]
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	1(S)	mg/L	2U	2U	2U	0.12J	0.19J	[3]	2U
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	13000	12000	1200	280	7200	21000	4000
CHROMIUM	0.05(S)	mg/L	0.036J	0.05U	0.0072J	0.05U	0.05U	0.05U	0.05U
COBALT	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	0.2(S)	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	0.11	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	0.01U	NA
IRON	0.3(S)	mg/L	[3.3J]	0.13J	1UJ	[1.8J]	[46J]	[41]	[29]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.3U	0.03U
MAGNESIUM	35(G)	mg/L	12J	50U	50U	[51]	[390]	[270]	[120]
MANGANESE	0.3(S)	mg/L	0.18	0.15U	0.15U	0.11J	[2.5]	[11]	[1.9]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	5e-007UJ	NA
NICKEL	0.1(S)	mg/L	0.019J	0.4U	0.4U	0.4U	0.4U	0.017J	0.4U
POTASSIUM	NC	mg/L	300	320	21J	50U	61	340	140
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)	mg/L	[8300]	[7100]	[150]	[37J]	[4800]	[18000]	[3600]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	mg/L	1U	1U	1U	1U	1U	1U	1U
VANADIUM	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.026J	0.019J	0.5U
ZINC	2(G)	mg/L	0.2U	0.2U	0.2U	0.2U	0.2U	0.037J	0.21

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID / Location / Sample Date / Sample Purpose	SB915-0062-04 / SB915-WB-05R / 07/24/2012 / Regular sample	SB915-0062-01 / SB915-WB-05U / 07/24/2012 / Regular sample	SB915-0063-04 / SB915-WB-06 / 07/25/2012 / Regular sample	SB915-0062-09 / SB915-WB-07L / 07/24/2012 / Regular sample	SB915-0060-03 / SB915-WB-07R / 07/20/2012 / Regular sample	SB915-0060-04 / SB915-WB-07U / 07/20/2012 / Regular sample	SB915-0059-03 / SB915-WB-09L / 07/19/2012 / Regular sample
ALUMINUM	NC	mg/L		2U	2U	0.55J	2U	2U	2U	2U
ANTIMONY	0.003(S)	mg/L		[0.013J]	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.025(S)	mg/L		0.1U	0.1U	0.1U	0.1U	[0.03J]	0.1U	0.1U
BARIUM	1(S)	mg/L		0.066J	[1.8J]	[39]	0.22J	0.075J	0.049J	0.16J
BERYLLIUM	0.003(G)	mg/L		0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	1(S)	mg/L		[5.7]	2U	2U	2U	2U	2U	2U
CADMIUM	0.005(S)	mg/L		0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L		7300	3800	19000	12000	2500	3100	15000B
CHROMIUM	0.05(S)	mg/L		0.035J	0.05U	0.05U	[3.7]	0.0094J	0.012J	0.0071J
COBALT	NC	mg/L		0.5U	0.5U	0.5U	0.049J	0.5U	0.0049J	0.005J
COPPER	0.2(S)	mg/L		0.046J	0.25U	0.25U	0.076J	0.051J	0.25U	0.25U
CYANIDE	0.2(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L		[27J]	1UJ	[64]	[71J]	[1.3]	[19]	[49]
LEAD	0.025(S)	mg/L		0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L		[1500]	50U	[130]	[370]	[430]	[160]	[210]
MANGANESE	0.3(S)	mg/L		[9.5]	0.15U	[7]	[3.8]	[3.3]	[0.63]	[5.1]
MERCURY	0.0007(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L		0.031J	0.4U	0.4U	[2.8]	0.016J	0.4U	0.4U
POTASSIUM	NC	mg/L		2300	200	250	190	550	53	110
SELENIUM	0.01(S)	mg/L		0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L		0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)	mg/L		[62000]	[2000]	[13000]	[10000]	[55000]	[3100]	[11000]
THALLIUM	0.0005(G)	mg/L		0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	mg/L		0.026J	1U	1U	1U	1U	1U	1U
VANADIUM	NC	mg/L		0.055J	0.5U	0.5U	0.037J	0.048J	0.019J	0.5U
ZINC	2(G)	mg/L		0.2U	0.2U	0.44	0.35B	0.2U	0.2U	0.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0059-04 SB915-WB-09U 07/19/2012 Regular sample	SB915-0059-02 SB915-WB-10L 07/19/2012 Regular sample	SB915-0060-11 SB915-WB-10U 07/20/2012 Regular sample	SB915-0063-02 WB18-MW-14BR 07/25/2012 Regular sample	SB915-0063-03 WB18-MW-14D 07/25/2012 Regular sample	SCA-0055-09 SB915-MW-100S 07/14/2012 Regular sample	SCA-0054-01 SB915-MW-101S 07/13/2012 Regular sample
ALUMINUM	NC	mg/L	2U	2U	2U	1.6J	0.56J	1U	0.2U
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.03U	0.012U
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.0017J	0.003U
BARIUM	1(S)	mg/L	[1.2J]	0.18J	[5.6]	0.066J	0.78J	[1.97]	[1.36]
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.001U	0.001U
BORON	1(S)	mg/L	2U	2U	2U	[3.1]	2U	0.0978J	0.13J
CADMIUM	0.005(S)	mg/L	0.05U	0.0014J	0.0023J	0.05U	0.05U	0.001U	0.001U
CALCIUM	NC	mg/L	3800	15000B	10000B	3300	10000	1420	1130
CHROMIUM	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.016J	0.0086J	0.004U	0.004U
COBALT	NC	mg/L	0.5U	0.5U	0.5U	0.0051J	0.005J	0.004U	0.0029J
COPPER	0.2(S)	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U	0.01U	0.0024J
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	0.0055R	0.0055U
IRON	0.3(S)	mg/L	1U	[72]	[89]	[7.1]	[50]	[0.63]	[0.735]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.003U	0.006U
MAGNESIUM	35(G)	mg/L	0.33J	[230]	[120]	[440]	[120]	[183]	[109]
MANGANESE	0.3(S)	mg/L	0.0094J	[2.8]	[6.5]	[2]	[3.1]	0.0693	[0.559]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	5e-007U	0.00000074
NICKEL	0.1(S)	mg/L	0.019J	0.4U	0.4U	0.023J	0.025J	0.0073J	0.0048J
POTASSIUM	NC	mg/L	150	130	280	550	66	92.1	63.3
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.0058J
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.003U	0.003U
SODIUM	20(S)	mg/L	[1800]	[11000]	[5900]	[45000]	[5900]	[777]	[767]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	[0.0017J]	[0.0039J]
TIN	NC	mg/L	1U	1U	1U	1U	1U	NA	NA
VANADIUM	NC	mg/L	0.5U	0.5U	0.5U	0.026J	0.5U	0.005U	0.0018J
ZINC	2(G)	mg/L	0.2U	0.2U	0.2U	0.047J	0.075J	0.01U	0.01U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0054-02 SB915-MW-102S 07/13/2012 Regular sample	SCA-0057-08 SB915-MW-103S 07/18/2012 Regular sample	SCA-0052-03 SB915-MW-87BR 07/11/2012 Regular sample	SCA-0052-04 SB915-MW-87I 07/11/2012 Regular sample	SCA-0052-02 SB915-MW-87S 07/11/2012 Regular sample	SCA-0053-04 SB915-MW-88BR 07/12/2012 Regular sample
ALUMINUM	NC	mg/L	0.2U	0.2U	2U	0.127J	0.502	1.73J
ANTIMONY	0.003(S)	mg/L	0.006U	0.006U	[0.0204J]	0.006U	0.006U	0.06U
ARSENIC	0.025(S)	mg/L	0.0014J	0.003U	0.03U	0.0014J	0.0023J	[0.0262J]
BARIUM	1(S)	mg/L	0.104	0.123	0.298	0.0239	0.104	0.2
BERYLLIUM	0.003(G)	mg/L	0.001U	0.001U	0.001UJ	0.001UJ	0.001UJ	0.01UJ
BORON	1(S)	mg/L	0.1U	0.1U	[1.04]	0.1U	0.1U	[2.59]
CADMIUM	0.005(S)	mg/L	0.001U	0.001U	[0.0118]	0.001U	0.001U	0.01U
CALCIUM	NC	mg/L	682	280	10300	328	132	7830
CHROMIUM	0.05(S)	mg/L	0.004U	0.004U	0.04U	0.004U	0.0107	0.08U
COBALT	NC	mg/L	0.0024J	0.004U	0.04U	0.004U	0.004U	0.0176J
COPPER	0.2(S)	mg/L	0.01U	0.01U	0.0644J	0.01U	0.01U	0.0575J
CYANIDE	0.2(S)	mg/L	0.010U	0.091	0.010UJ	0.010UJ	0.010UJ	0.010UJ
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055U	0.0055U	0.0055R	0.0031R	0.0099J	0.0055U
IRON	0.3(S)	mg/L	[4.21]	0.1U	[3.42J]	[1J]	[0.643J]	[10J]
LEAD	0.025(S)	mg/L	0.003U	0.003U	0.03U	0.003U	0.003U	[0.0817]
MAGNESIUM	35(G)	mg/L	[37.9]	30.1	[717J]	[60.6J]	22.3J	[702J]
MANGANESE	0.3(S)	mg/L	[0.712]	0.0231	[5.71]	0.0729	0.0235	[5.73]
MERCURY	0.0007(S)	mg/L	3.4e-007J	5.1e-007J	2.1e-006J	1.1e-006J	0.0000048	1.2e-006J
NICKEL	0.1(S)	mg/L	0.0019J	0.0035J	0.0438J	0.01U	0.01U	0.0129J
POTASSIUM	NC	mg/L	25.4	8.83J	493	13.5	6.84	422
SELENIUM	0.01(S)	mg/L	0.0025J	0.01U	[0.156]	0.01U	0.01U	0.1U
SILVER	0.05(S)	mg/L	0.003U	0.0013J	0.03U	0.003U	0.003U	0.06U
SODIUM	20(S)	mg/L	[436]	[191]	[7650J]	[403J]	[47.7J]	[6440J]
THALLIUM	0.0005(G)	mg/L	0.01U	0.01U	0.1U	0.01U	0.01U	[0.0695J]
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.0016J	0.005U	0.05U	0.005U	0.005U	0.0264J
ZINC	2(G)	mg/L	0.01U	0.01U	0.1U	0.01U	0.01U	0.0915J

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0053-03 SB915-MW-88D 07/12/2012 Regular sample	SCA-0053-02 SB915-MW-88I 07/12/2012 Regular sample	SCA-0053-01 SB915-MW-88S 07/12/2012 Regular sample	SCA-0055-07 SB915-MW-89BR 07/14/2012 Regular sample	SCA-0055-06 SB915-MW-89D 07/14/2012 Regular sample	SCA-0055-05 SB915-MW-89I 07/14/2012 Regular sample	SCA-0055-04 SB915-MW-89S 07/14/2012 Regular sample
ALUMINUM	NC	mg/L	1.02	0.296	0.243	10U	1U	0.101J	0.152J
ANTIMONY	0.003(S)	mg/L	0.006U	0.006U	0.006U	0.06U	0.03U	0.006U	0.006U
ARSENIC	0.025(S)	mg/L	0.021J	0.0066	0.003	0.03U	0.003U	0.003U	0.003U
BARIUM	1(S)	mg/L	[3.24]	[5.37]	0.227	0.102	[1.94]	0.226	0.0666
BERYLLIUM	0.003(G)	mg/L	0.001UJ	0.001UJ	0.001UJ	0.001U	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	0.05J	0.0459J	0.1UJ	[4.93]	0.0962J	0.0833J	0.0854J
CADMIUM	0.005(S)	mg/L	0.01U	0.001U	0.001U	0.01U	0.0005J	0.001U	0.001U
CALCIUM	NC	mg/L	3470	1820	402	6910	1830	824	253
CHROMIUM	0.05(S)	mg/L	0.04U	0.02U	0.004U	0.04U	0.001J	0.0017J	0.004U
COBALT	NC	mg/L	0.0073J	0.0014J	0.0015J	0.009J	0.0049	0.004U	0.004U
COPPER	0.2(S)	mg/L	0.0222	0.0071J	0.0046J	0.1U	0.01U	0.01U	0.01U
CYANIDE	0.2(S)	mg/L	0.010UJ	0.010UJ	0.010UJ	0.010U	0.010U	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055U	0.0055U	0.0055U	0.0055R	0.0055R	0.0055U	0.0055R
IRON	0.3(S)	mg/L	[16J]	[7.53J]	[1.92J]	[21.2]	[0.952]	0.294	0.127
LEAD	0.025(S)	mg/L	[0.0392]	0.0229	0.0034	0.03U	0.015U	0.003U	0.003U
MAGNESIUM	35(G)	mg/L	[277J]	[127J]	[36.9J]	[1300]	[139]	[85.1]	28.4
MANGANESE	0.3(S)	mg/L	[1.76]	[1.72]	[0.455]	[8.03]	[7.45]	[3.59]	[0.648]
MERCURY	0.0007(S)	mg/L	1.1e-006J	3.7e-007J	1.8e-006J	5e-007U	2.3e-006J	1.8e-006J	1.6e-006J
NICKEL	0.1(S)	mg/L	0.0141J	0.01U	0.0061J	0.0102J	0.0113	0.01U	0.01U
POTASSIUM	NC	mg/L	177	76.9	21.5	887	80.5	46.3	12.7
SELENIUM	0.01(S)	mg/L	0.1U	0.01U	0.01U	[0.0494J]	0.05U	[0.0158]	0.01U
SILVER	0.05(S)	mg/L	0.03U	0.015U	0.003U	0.015U	0.003U	0.003U	0.003U
SODIUM	20(S)	mg/L	[1890J]	[876J]	[194J]	[11700]	[779]	[549]	[127]
THALLIUM	0.0005(G)	mg/L	0.1U	0.05U	0.01U	0.05U	0.01U	[0.002J]	0.01U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.003J	0.0045J	0.0011J	0.0257J	0.005U	0.005U	0.005U
ZINC	2(G)	mg/L	0.0809J	0.005J	0.0067J	0.1U	0.01U	0.01U	0.01U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose	SCA-0056-04 SB915-MW-90BR 07/17/2012 Regular sample	SCA-0056-06 SB915-MW-90I 07/17/2012 Regular sample	SCA-0056-01 SB915-MW-90S 07/17/2012 Regular sample	SCA-0057-03 SB915-MW-91BR 07/18/2012 Regular sample	SCA-0057-06 SB915-MW-91D 07/18/2012 Regular sample	SCA-0057-01 SB915-MW-91I 07/18/2012 Regular sample	SCA-0057-02 SB915-MW-91SN 07/18/2012 Regular sample
		Units							
ALUMINUM	NC	mg/L	1U	0.2U	0.137J	0.2U	0.2U	0.162J	0.2U
ANTIMONY	0.003(S)	mg/L	0.03U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U
ARSENIC	0.025(S)	mg/L	0.015U	0.003U	0.003U	0.003U	0.0015J	0.0012J	0.003U
BARIUM	1(S)	mg/L	0.0691	0.182	0.106	0.0059J	0.0937	0.0678	0.307
BERYLLIUM	0.003(G)	mg/L	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	[1.66]	0.104	0.0634J	0.1U	0.1U	0.1U	0.1U
CADMIUM	0.005(S)	mg/L	0.005U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
CALCIUM	NC	mg/L	4260	971	617	156	779	763	518
CHROMIUM	0.05(S)	mg/L	0.02U	0.004U	0.004R	0.004U	0.0068J	0.0078J	0.004U
COBALT	NC	mg/L	0.0064J	0.0024J	0.0016J	0.004U	0.0021J	0.0031J	0.0024J
COPPER	0.2(S)	mg/L	0.05U	0.01U	0.01U	0.002J	0.0041J	0.0021J	0.01U
CYANIDE	0.2(S)	mg/L	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055R	0.0055R	0.0055U	0.0055U	0.0055U	0.0055U	0.0055U
IRON	0.3(S)	mg/L	[10.8J]	[1.84J]	[1.96J]	0.1U	[1.41]	[2.05]	[0.364J]
LEAD	0.025(S)	mg/L	0.0153	0.003U	0.003U	0.3U	0.003U	0.003U	0.003U
MAGNESIUM	35(G)	mg/L	[809J]	[75.1J]	[45.1J]	22.9	[50]	[45.6]	[40.4]
MANGANESE	0.3(S)	mg/L	[5.25J]	[1.02J]	[1.21J]	0.0896	[0.485]	[0.871]	[0.599]
MERCURY	0.0007(S)	mg/L	1.1e-006J	5e-007U	1.8e-006J	1.2e-006J	2.4e-006J	3e-006J	0.0000105
NICKEL	0.1(S)	mg/L	0.05U	0.01U	0.01U	[0.151J]	0.0072J	0.0101	0.0088J
POTASSIUM	NC	mg/L	365J	50.4J	24.9J	27.8J	29.4J	32.3J	35J
SELENIUM	0.01(S)	mg/L	[0.0294J]	0.0044J	0.0036J	0.0029J	0.0036J	0.0044J	0.0032J
SILVER	0.05(S)	mg/L	0.015U	0.003U	0.003U	0.0012J	0.0024J	0.0027J	0.003
SODIUM	20(S)	mg/L	[4390]	[758]	[454]	[55800]	[524]	[533]	[591]
THALLIUM	0.0005(G)	mg/L	0.05U	0.02U	0.01U	1U	0.01U	0.01U	0.01U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.0168J	0.002J	0.0026J	0.0009J	0.0018J	0.002J	0.0017J
ZINC	2(G)	mg/L	0.05U	0.0032J	0.019	0.01U	0.01U	0.003J	0.01U

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0057-05 SB915-MW-91S 07/18/2012 Regular sample	SCA-0057-04 SB915-MW-92BR 07/18/2012 Regular sample	SCA-0056-09 SB915-MW-92D 07/17/2012 Regular sample	SCA-0056-08 SB915-MW-92I 07/17/2012 Regular sample	SCA-0056-07 SB915-MW-92S 07/17/2012 Regular sample	SCA-0054-05 SB915-MW-93BR 07/13/2012 Regular sample	SCA-0054-06 SB915-MW-93D 07/13/2012 Regular sample
ALUMINUM	NC	mg/L	1.68J	0.02J	0.2U	0.2U	1U	1.96J	0.495
ANTIMONY	0.003(S)	mg/L	0.006U	0.006U	0.006U	0.006U	0.03U	0.15U	0.006U
ARSENIC	0.025(S)	mg/L	0.003U	0.003U	0.003U	0.003U	0.015U	0.075U	0.003U
BARIUM	1(S)	mg/L	[2.49]	0.0047J	0.0685	0.237	[1.75]	0.113	0.101
BERYLLIUM	0.003(G)	mg/L	0.001U	0.001U	0.001U	0.001U	0.001U	0.005U	0.001U
BORON	1(S)	mg/L	0.1U	0.361	0.0499J	0.04J	0.5U	[2.72J]	0.1U
CADMIUM	0.005(S)	mg/L	0.001U	0.001U	0.001U	0.001U	0.005U	0.025U	0.001U
CALCIUM	NC	mg/L	6910	479	305	836	4540	12900	793
CHROMIUM	0.05(S)	mg/L	0.004U	0.004U	0.004U	0.004U	0.02U	0.1U	0.006
COBALT	NC	mg/L	0.0019J	0.0007J	0.0009J	0.0019J	0.0078J	0.02J	0.0059
COPPER	0.2(S)	mg/L	0.0034J	0.002J	0.01U	0.01U	0.0102	[0.476]	0.0073J
CYANIDE	0.2(S)	mg/L	0.010U	0.010U	0.010U	0.010J	0.010U	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055U	0.0055U	0.0055R	0.0055R	0.0055R	0.0055U	0.0055U
IRON	0.3(S)	mg/L	0.1U	[1.37]	0.1U	0.11J	0.5U	[35.4]	[1.03]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.003U	0.003U	0.0091J	[0.133]	0.0021J
MAGNESIUM	35(G)	mg/L	1U	[84]	34.5J	27.4J	0.115J	[2590]	[57.6]
MANGANESE	0.3(S)	mg/L	0.0049	[0.557]	0.185J	0.0975J	0.0164J	[14.1]	[1.25]
MERCURY	0.0007(S)	mg/L	0.000242	9.9e-007J	1.2e-006J	0.0000213	0.000155	0.0000067	0.0000029
NICKEL	0.1(S)	mg/L	0.1U	0.0095J	0.01U	0.01U	0.0534	0.25U	0.011
POTASSIUM	NC	mg/L	302J	54.6J	7.87J	30.3J	150J	1180	32.2
SELENIUM	0.01(S)	mg/L	0.0039J	0.0046J	0.01U	0.004J	[0.0165J]	0.25U	0.0051J
SILVER	0.05(S)	mg/L	[0.0533]	0.0042	0.003U	0.003U	0.015U	0.075U	0.003U
SODIUM	20(S)	mg/L	[603]	[8260]	[222]	[561]	[2880]	[21300]	[446]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.01U	0.01U	0.05U	0.1U	0.01U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.005U	0.0022J	0.0008J	0.0012J	0.0028J	0.0625J	0.0034J
ZINC	2(G)	mg/L	0.0031J	0.01U	0.0045J	0.01U	0.0045J	0.25U	0.01U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0054-04 SB915-MW-93I 07/13/2012 Regular sample	SCA-0054-03 SB915-MW-93S 07/13/2012 Regular sample	SCA-0052-01 SB915-MW-94S 07/11/2012 Regular sample	SCA-0053-05 SB915-MW-95S 07/12/2012 Regular sample	SCA-0057-09 SB915-MW-96S 07/18/2012 Regular sample	SCA-0055-03 SB915-MW-97S 07/14/2012 Regular sample	SCA-0055-02 SB915-MW-98S 07/14/2012 Regular sample
ALUMINUM	NC	mg/L	0.198J	0.114J	0.2U	0.0863J	0.0409J	0.107J	0.0724J
ANTIMONY	0.003(S)	mg/L	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U	0.006U
ARSENIC	0.025(S)	mg/L	0.003U	0.003U	0.003U	0.0022J	0.003U	0.003U	0.003U
BARIUM	1(S)	mg/L	0.111	0.151	0.078	0.164	0.131	0.0758	0.171
BERYLLIUM	0.003(G)	mg/L	0.001U	0.001U	0.001UJ	0.001UJ	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	0.1U	0.1U	0.1U	0.0403J	0.1U	0.038J	0.0463J
CADMIUM	0.005(S)	mg/L	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
CALCIUM	NC	mg/L	796	751	180	256	184	250	346
CHROMIUM	0.05(S)	mg/L	0.0032J	0.004U	0.004U	0.0023J	0.004U	0.0017J	0.004U
COBALT	NC	mg/L	0.0049	0.0044	0.004U	0.004U	0.0008J	0.004U	0.004U
COPPER	0.2(S)	mg/L	0.0038J	0.0035J	0.01U	0.0017J	0.0014J	0.01U	0.01U
CYANIDE	0.2(S)	mg/L	0.010U	0.010U	0.010UJ	0.010UJ	0.010U	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055U	0.0055U	0.0055R	0.0055U	0.0055U	0.0055R	0.0055R
IRON	0.3(S)	mg/L	[0.818]	[0.617]	0.0966J	0.1U	0.202J	0.201	0.213
LEAD	0.025(S)	mg/L	0.003U	0.003U	0.003U	0.003U	0.003U	0.003U	0.003U
MAGNESIUM	35(G)	mg/L	[59.7]	[37.4]	[37.1]	20.9J	32.5	[37.5]	[42.1]
MANGANESE	0.3(S)	mg/L	[1.26]	[1.23]	[1.15J]	0.0432	[0.47]	[0.35]	[0.509]
MERCURY	0.0007(S)	mg/L	0.0000023	0.000003	2e-006J	5.6e-007J	2.1e-006J	8.1e-007J	1e-006J
NICKEL	0.1(S)	mg/L	0.0082J	0.0068J	0.01U	0.01U	0.0039J	0.01U	0.01U
POTASSIUM	NC	mg/L	32.2	36.9	4.33	11.9	13.5J	13.3	20.5
SELENIUM	0.01(S)	mg/L	0.0032J	0.0036B	0.01U	0.01U	0.01U	0.01U	0.0038J
SILVER	0.05(S)	mg/L	0.003U	0.003U	0.003U	0.003U	0.003U	0.003U	0.003U
SODIUM	20(S)	mg/L	[464]	[349]	[62.6J]	[238J]	[105]	[174]	[209]
THALLIUM	0.0005(G)	mg/L	0.01U	[0.0024J]	0.01U	0.01U	0.01U	0.01U	[0.0021J]
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.0027J	0.0023J	0.005U	0.0013J	0.0008J	0.005U	0.005U
ZINC	2(G)	mg/L	0.01U	0.0038U	0.01U	0.01U	0.01U	0.01U	0.01U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 23
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0055-08 SB915-MW-99S 07/14/2012 Regular sample	SCA-0052-07 SB915-WB-02L 07/11/2012 Regular sample	SCA-0056-05 SB915-WB-04L 07/17/2012 Regular sample
ALUMINUM	NC	mg/L	0.541	10U	1U
ANTIMONY	0.003(S)	mg/L	0.0021J	0.15U	0.03U
ARSENIC	0.025(S)	mg/L	0.0023J	0.03U	0.015U
BARIUM	1(S)	mg/L	0.174	0.244	0.427
BERYLLIUM	0.003(G)	mg/L	0.001U	0.001UJ	0.001U
BORON	1(S)	mg/L	0.0675J	1U	0.155
CADMIUM	0.005(S)	mg/L	0.001U	0.01U	0.001U
CALCIUM	NC	mg/L	490	14600	2150
CHROMIUM	0.05(S)	mg/L	0.0046	0.04U	0.004U
COBALT	NC	mg/L	0.004U	0.04U	0.0043
COPPER	0.2(S)	mg/L	0.01U	0.0275J	0.01U
CYANIDE	0.2(S)	mg/L	0.010U	0.010UJ	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055R	0.0055R	0.0055R
IRON	0.3(S)	mg/L	[1.78]	[20J]	[9.11J]
LEAD	0.025(S)	mg/L	0.003U	0.075U	0.015U
MAGNESIUM	35(G)	mg/L	[45.8]	[683J]	[227J]
MANGANESE	0.3(S)	mg/L	[1.2]	[2.63]	[0.308J]
MERCURY	0.0007(S)	mg/L	3e-006J	9.7e-007J	4.1e-007J
NICKEL	0.1(S)	mg/L	0.0106	0.0508J	0.05U
POTASSIUM	NC	mg/L	31.2	195	86.7J
SELENIUM	0.01(S)	mg/L	0.0062J	[0.0692J]	[0.0104]
SILVER	0.05(S)	mg/L	0.003U	0.03U	0.003U
SODIUM	20(S)	mg/L	[237]	[8230J]	[1670]
THALLIUM	0.0005(G)	mg/L	0.01U	0.1U	0.05U
TIN	NC	mg/L	NA	NA	NA
VANADIUM	NC	mg/L	0.005U	0.05U	0.0018J
ZINC	2(G)	mg/L	0.0049J	0.1U	0.01U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 24
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	pg/L	0.65EMPC,J	0.31EMPC,J
1,2,3,4,6,7,8-HPCDF	NC	pg/L	0.53EMPC,J	0.19EMPC,J
1,2,3,4,7,8,9-HPCDF	NC	pg/L	48U	44U
1,2,3,4,7,8-HXCDD	NC	pg/L	48U	44U
1,2,3,4,7,8-HXCDF	NC	pg/L	0.16EMPC,J	44U
1,2,3,6,7,8-HXCDD	NC	pg/L	48U	44U
1,2,3,6,7,8-HXCDF	NC	pg/L	0.31EMPC,J	44U
1,2,3,7,8,9-HXCDD	NC	pg/L	0.65EMPC,J	44U
1,2,3,7,8,9-HXCDF	NC	pg/L	0.75EMPC,J	44U
1,2,3,7,8-PECDD	NC	pg/L	48U	44U
1,2,3,7,8-PECDF	NC	pg/L	48U	44U
2,3,4,6,7,8-HXCDF	NC	pg/L	0.27EMPC,J	0.11EMPC,J
2,3,4,7,8-PECDF	NC	pg/L	0.40J	44U
2,3,7,8-TCDD	NC	pg/L	9.6U	8.9U
2,3,7,8-TCDF	NC	pg/L	0.33EMPC,J	8.9U
OCDD	NC	pg/L	8.2EMPC,J	1.7EMPC,J
OCDF	NC	pg/L	0.67EMPC,J	0.43EMPC,J
TOTAL HPCDD	NC	pg/L	1.1QJB	0.59QBJ
TOTAL HPCDF	NC	pg/L	0.53QBJ	0.19BJ
TOTAL HXCDD	NC	pg/L	1.7QJB	44U
TOTAL HXCDF	NC	pg/L	1.7QJB	0.11QBJ
TOTAL PECDD	NC	pg/L	1BJQ	0.92QBJ
TOTAL PECDF	NC	pg/L	1.5QJB	0.11QJ
TOTAL TCDD	NC	pg/L	0.83QJ	0.12QJ
Total TCDF	NC	pg/L	1.9QBJ	8.9U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID / Location / Sample Date / Sample Purpose	SB915-0060-02 / SB915-IMW-01S / 07/20/2012 / Regular sample	SB915-0060-09 / SB915-IMW-02S / 07/20/2012 / Regular sample	SB915-0060-07 / SB915-IMW-03S / 07/20/2012 / Regular sample	SB915-0060-08 / SB915-IMW-04S / 07/20/2012 / Regular sample	SB915-0060-06 / SB915-IMW-05S / 07/20/2012 / Regular sample	SB915-0060-05 / SB915-IMW-06S / 07/20/2012 / Regular sample	SB915-0066-01 / SB915-MW-03 / 07/27/2012 / Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		130B	110B	240B	140B	5.0U	5.0U	270B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	5.0U	97	76	5.0U
ALKALINITY, TOTAL	NC	mg/L		130B	110B	240B	140B	180B	440B	270B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		2.7	11	59	3.5	15J	12	1.3J
BROMIDE	2(G)	mg/L		[10]	[29]	[25]	[5.1]	[15]	[12]	2.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L		1000B	550B	940B	300B	380B	490B	210B
CHLORIDE	250(S)	mg/L		[9100]	[19000]	[27000]	[3200]	[7600]	[7100]	[5300]
HARDNESS (AS CACO3)	NC	mg/L		9000	17000	26000	3500	8800	8000	3700
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		0.60J	[3.1J]	[30J]	[2.5J]	[5.8J]	[3.7J]	[18]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		25U	25U	45	25U	14J	100	20J
NITROGEN, NITRATE (AS N)	10(S)	mg/L		1.3U	2.5U	2.5U	0.50U	1.3U	1.3U	0.50U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
NITROGEN, NITRITE	1(S)	mg/L		1.3U	2.5U	2.5U	0.50U	1.3U	1.3U	0.50U
SULFATE	250(S)	mg/L		43	44J	42J	38	26	28	[320]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		18000	42000	51000	9100	19000	17000	9300
TOTAL ORGANIC CARBON	NC	mg/L		1.2J	1.7J	25J	5.5J	9.7J	4.7J	2.0J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		0.010U	0.010U	[1.2]	[0.0064J]	[0.077]	[0.053]	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0065-07 SB915-MW-04 07/26/2012 Regular sample	SB915-0066-03 SB915-MW-104I 07/27/2012 Regular sample	SB915-0069-06 SB915-MW-104S 07/31/2012 Regular sample	SB915-0066-05 SB915-MW-105BR 07/27/2012 Regular sample	SB915-0065-04 SB915-MW-106I 07/26/2012 Regular sample	SB915-0065-03 SB915-MW-106S 07/26/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	400B	280B	130B	140B	63B	180B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	37	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	400B	280B	130B	180B	63B	180B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	3.2J	2.0U	2.0U	18J	1.6J	2.0U
BROMIDE	2(G)	mg/L	[4.9J]	0.20U	10UJ	0.20U	5.0U	0.50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	570J	26B	2300B	25B	950J	89J
CHLORIDE	250(S)	mg/L	[15000]	180	[26000]	150	[16000]	[1100]
HARDNESS (AS CACO3)	NC	mg/L	12000	570	49000	230	2200	550
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[6.8B]	0.13	0.43J	[4.2]	1.3J	0.10U
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	25U	25U	25U	25U	14J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.3U	0.45	2.5U	0.32	1.3U	0.21
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA
NITROGEN, NITRITE	1(S)	mg/L	1.3UJ	0.050U	2.5U	0.050U	1.3UJ	0.13UJ
SULFATE	250(S)	mg/L	[280]	240	50U	49	12J	110
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	26000	780	100000	520	28000	2400
TOTAL ORGANIC CARBON	NC	mg/L	4.2J	0.86J	1.8	3.4J	0.44J	1.2J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0066-02 SB915-MW-107BR 07/27/2012 Regular sample	SB915-0065-09 SB915-MW-107D 07/26/2012 Regular sample	SB915-0065-10 SB915-MW-107I 07/26/2012 Regular sample	SB915-0065-11 SB915-MW-107S 07/26/2012 Regular sample	SB915-0061-07 SB915-MW-108BR 07/23/2012 Regular sample	SB915-0061-08 SB915-MW-108D 07/23/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	49B	77B	190B	140B	200B	230B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	49B	77B	190B	140B	200B	230B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0U	3.1	3.1	2.0U	9.8
BROMIDE	2(G)	mg/L	100U	[23]	2.0U	10U	[6.5]	1.3
CHEMICAL OXYGEN DEMAND	NC	mg/L	4800B	3400J	270J	1100J	26J	21J
CHLORIDE	250(S)	mg/L	[120000]	[72000]	[4400]	[29000]	140	110
HARDNESS (AS CACO3)	NC	mg/L	9200	31000	4000	27000	1700	520
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[18]	[20B]	1.8B	0.87B	0.92B	0.20J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	28	22J	25U	25U	2.8J	25U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	25U	5.0U	0.50U	2.5U	1.3U	0.086
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA
NITROGEN, NITRITE	1(S)	mg/L	25U	5.0UJ	0.50UJ	2.5UJ	[1.4]	0.053
SULFATE	250(S)	mg/L	[4100]	[1300]	190	46J	[1100]	240
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	150000	110000	13000	48000	3500	730
TOTAL ORGANIC CARBON	NC	mg/L	1.0R	1.0UJ	0.44J	1.1J	1.0J	1.1J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.025]	0.010U	0.010U	0.010U	0.010U	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0061-06 SB915-MW-109I 07/23/2012 Regular sample	SB915-0061-05 SB915-MW-109S 07/23/2012 Regular sample	SB915-0060-10 SB915-MW-110S 07/20/2012 Regular sample	SB915-0061-04 SB915-MW-111BR 07/23/2012 Regular sample	SB915-0061-03 SB915-MW-111D 07/23/2012 Regular sample	SB915-0061-02 SB915-MW-111I 07/23/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	99B	5.0U	200B	14J	34B	38B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	78	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	99B	900B	200B	14J	34B	38B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	6.2	4.6	5.2J	1.7J	1.5J	3.5
BROMIDE	2(G)	mg/L	[18]	[22]	1.1	[890]	[19J]	[44]
CHEMICAL OXYGEN DEMAND	NC	mg/L	880J	2400J	220B	9900J	4700J	2500J
CHLORIDE	250(S)	mg/L	[11000]	[16000]	[2800]	[99000]	[59000]	[38000]
HARDNESS (AS CACO3)	NC	mg/L	13000	17000	3000	64000	53000	36000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[4.4B]	[4.9B]	0.41J	[140B]	[22B]	[9.7B]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	14J	25U	160	25	22J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.3U	2.5U	0.25U	13U	5.0U	5.0U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA
NITROGEN, NITRITE	1(S)	mg/L	1.3U	2.5U	0.25U	13U	5.0U	5.0U
SULFATE	250(S)	mg/L	[880]	39J	28	[780]	170	170
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	22000	31000	7200	180000	110000	67000
TOTAL ORGANIC CARBON	NC	mg/L	2.6J	3.7J	3.1J	1.0UJ	2.0J	2.1J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.0088J]	[0.037]	0.010U	0.010U	0.010U	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID / Location / Sample Date / Sample Purpose	SB915-0061-01 / SB915-MW-111S / 07/23/2012 / Regular sample	SB915-0059-11 / SB915-MW-112I / 07/19/2012 / Regular sample	SB915-0059-10 / SB915-MW-112S / 07/19/2012 / Regular sample	SB915-0059-01 / SB915-MW-113S / 07/19/2012 / Regular sample	SB915-0065-06 / SB915-MW-115BR / 07/26/2012 / Regular sample	SB915-0066-06 / SB915-MW-116S / 07/27/2012 / Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		260B	84B	5.0U	5.0U	120B	270B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	21	65	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L		260B	84B	24B	130B	120B	270B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		2.0U	4.1	2.0U	2.5	2.0U	2.0U
BROMIDE	2(G)	mg/L		[16]	20U	[2.1]	5.0U	[15]	0.50U
CHEMICAL OXYGEN DEMAND	NC	mg/L		850J	1100B	280B	380B	980J	57B
CHLORIDE	250(S)	mg/L		[11000]	[36000]	[4300]	[9900]	[26000]	[1000]
HARDNESS (AS CACO3)	NC	mg/L		9600	3300	4200	11000	11000	1200
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[6.1B]	[7.7J]	[2.7J]	[3.1J]	[6.9B]	0.10J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		17J	20J	25U	25U	25U	25U
NITROGEN, NITRATE (AS N)	10(S)	mg/L		1.3U	5.0U	0.50U	1.3U	2.5U	0.13U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA
NITROGEN, NITRITE	1(S)	mg/L		1.3U	5.0U	0.50U	1.3U	2.5UJ	0.13U
SULFATE	250(S)	mg/L		38	64J	49	[280]	[1400]	190
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		19000	62000	8500	39000	39000	2800
TOTAL ORGANIC CARBON	NC	mg/L		14J	2.2J	2.7J	3.3J	0.2J	7.9J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.015]	0.010U	[0.015]	[0.015]	0.010U	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-0065-08 SB915-MW-117S 07/26/2012 Regular sample	SB915-0065-02 SB915-MW-118BR 07/26/2012 Regular sample	SB915-0065-01 SB915-MW-118S 07/26/2012 Regular sample	SB915-0067-01 SB915-MW-36D 07/27/2012 Regular sample	SB915-0066-04 SB915-MW-36I 07/27/2012 Regular sample	SB915-0059-08 SB915-MW-42D 07/19/2012 Regular sample	SB915-0059-07 SB915-MW-42I 07/19/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		140B	190B	58B	230B	5.0U	27B	5.0UJ
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	5.0U	86	5.0U	81J
ALKALINITY, TOTAL	NC	mg/L		140B	190B	58B	230B	840B	27B	1500J
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		2.0U	2.0U	3.7	2.0U	3.1	2.0U	12
BROMIDE	2(G)	mg/L		2.0U	2.0U	10U	0.50U	10U	20U	20U
CHEMICAL OXYGEN DEMAND	NC	mg/L		320J	220J	730J	80B	2300B	2700B	1800B
CHLORIDE	250(S)	mg/L		[5700]	[3600]	[23000]	[1500]	[35000]	[43000]	[37000]
HARDNESS (AS CACO3)	NC	mg/L		4900	3800	17000	1600	31000	40000	28000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		0.42B	[5.8B]	[7.6B]	0.42B	[9.8]	[17J]	[11J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		25U	14J	14J	25U	17J	31	17J
NITROGEN, NITRATE (AS N)	10(S)	mg/L		0.50U	0.50U	2.5U	0.13U	2.5U	5.0U	5.0U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
NITROGEN, NITRITE	1(S)	mg/L		0.50UJ	0.50UJ	2.5UJ	0.13U	2.5U	5.0U	5.0U
SULFATE	250(S)	mg/L		180	[1100]	45J	170	18J	66J	100U
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		10000	8200	39000	3100	52000	110000	91000
TOTAL ORGANIC CARBON	NC	mg/L		0.55J	0.94J	1.2J	0.84J	2.0J	2.0J	3.5J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		0.010U	0.010U	0.010U	0.010U	[0.026J]	[0.11]	[0.047]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0069-07 SB915-MW-53D 07/31/2012 Regular sample	SB915-0069-08 SB915-MW-53I 07/31/2012 Regular sample	SB915-0062-08 SB915-MW-59S 07/24/2012 Regular sample	SB915-0062-10 SB915-MW-60S 07/24/2012 Regular sample	SB915-0062-06 SB915-MW-70D 07/24/2012 Regular sample	SB915-0062-05 SB915-MW-70S 07/24/2012 Regular sample	SB915-0068-02 SB915-MW-85D 07/30/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	210B	5.0U	52B	200B	24B	83B	11J
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	100	5.0U	5.0U	5.0U	5.0U	5.0UJ
ALKALINITY, TOTAL	NC	mg/L	210B	1600B	52B	200B	24B	83B	11J
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	20	6.0U	9.8J	1.4J	6.0U	2.0U
BROMIDE	2(G)	mg/L	0.50UJ	[19J]	5.0U	2.0U	20U	[2.5]	[63J]
CHEMICAL OXYGEN DEMAND	NC	mg/L	24B	3000B	640J	240J	1100J	780J	3400B
CHLORIDE	250(S)	mg/L	[430]	[56000]	[8900]	[5000]	[45000]	[7500]	[46000]
HARDNESS (AS CACO3)	NC	mg/L	700	51000	8000	4800	38000	6900	45000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.10U	[18]	[11B]	1.6B	[13B]	[4.0B]	[19]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	22J	25U	17J	25U	22J	25U	22J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.13U	5.0U	1.3U	0.50U	5.0U	0.50U	5.0U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NITROGEN, NITRITE	1(S)	mg/L	0.13U	5.0U	1.3U	0.50U	5.0U	0.50U	5.0U
SULFATE	250(S)	mg/L	190	34J	72	2.2J	100U	110	100
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	710	120000	15000	8200	82000	14000	100000
TOTAL ORGANIC CARBON	NC	mg/L	1.0UJ	11J	0.66J	2.7J	1.1J	1.5J	1.6J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	[0.36]	0.010U	0.010U	0.010U	0.010U	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-0069-05 SB915-PZ-07D 07/31/2012 Regular sample	SB915-0069-02 SB915-PZ-07I 07/31/2012 Regular sample	SB915-0069-01 SB915-PZ-07S 07/31/2012 Regular sample	SB915-0068-04 SB915-WB-01L 07/30/2012 Regular sample	SB915-0068-01 SB915-WB-03L 07/30/2012 Regular sample	SB915-0064-01 SB915-WB-05L 07/25/2012 Regular sample	SB915-0063-05 SB915-WB-05M 07/25/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	300J	59J	35B	74B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		76	57	50	5.0UJ	5.0UJ	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L		1000B	460B	1300B	300J	59J	35B	74B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		13	3.3	2.0U	2.0U	3.2J	2.3	3.5
BROMIDE	2(G)	mg/L		[11J]	[11]	[3.0J]	1.2J	[34J]	[21]	5.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L		2400B	2300B	91B	20B	1300B	3100J	4700J
CHLORIDE	250(S)	mg/L		[36000]	[33000]	[1400]	82	[23000]	[70000]	[14000]
HARDNESS (AS CACO3)	NC	mg/L		34000	32000	3000	810	22000	54000	11000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		0.32J	[11]	[5.8]	0.37	[3.5]	[17B]	[21B]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		22J	25U	25U	25U	25U	20J	25
NITROGEN, NITRATE (AS N)	10(S)	mg/L		2.5U	2.5U	0.25U	0.050U	2.5U	5.0U	1.3U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
NITROGEN, NITRITE	1(S)	mg/L		2.5U	2.5U	0.25U	0.050U	2.5U	5.0UJ	1.3UJ
SULFATE	250(S)	mg/L		13J	50U	16	[570]	[580]	[320]	47
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		76000	64000	4300	1200	38000	120000	26000
TOTAL ORGANIC CARBON	NC	mg/L		1R	1R	1.0UJ	1.1J	0.28J	1.5J	0.77J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.36]	[0.021]	[0.018]	0.010U	0.010U	[0.047J]	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0062-04 SB915-WB-05R 07/24/2012 Regular sample	SB915-0062-01 SB915-WB-05U 07/24/2012 Regular sample	SB915-0063-04 SB915-WB-06 07/25/2012 Regular sample	SB915-0062-09 SB915-WB-07L 07/24/2012 Regular sample	SB915-0060-03 SB915-WB-07R 07/20/2012 Regular sample	SB915-0060-04 SB915-WB-07U 07/20/2012 Regular sample	SB915-0059-03 SB915-WB-09L 07/19/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	27J	5.0U	46B	81B	48B	150B	69B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	49	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	27J	310B	46B	81B	48B	150B	69B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	4.6	1.2J	2.0U	2.0U	2.0U	2.0U
BROMIDE	2(G)	mg/L	[250]	[4.8J]	20U	20U	[59]	[13]	20U
CHEMICAL OXYGEN DEMAND	NC	mg/L	8100J	720J	1700J	610J	3300B	310B	1700B
CHLORIDE	250(S)	mg/L	[130000]	[10000]	[62000]	[39000]	[94000]	[9800]	[45000]
HARDNESS (AS CACO3)	NC	mg/L	29000	9900	51000	32000	8400	8400	39000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[53B]	[2.9B]	[16B]	[6.2B]	[11J]	[2.2J]	[4.3J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	59	25U	22J	14J	25U	25U	14J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	25U	1.3U	5.0U	5.0U	5.0U	1.3U	5.0U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NITROGEN, NITRITE	1(S)	mg/L	25U	1.3U	5.0UJ	5.0U	5.0U	1.3U	5.0U
SULFATE	250(S)	mg/L	[1300]	19J	100U	[480]	[3800]	[680]	[780]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	200000	17000	110000	75000	160000	23000	96000
TOTAL ORGANIC CARBON	NC	mg/L	1.0UJ	2.3J	0.81J	0.24J	1.0UJ	0.48J	0.70J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.028J]	[0.049J]	0.010U	[0.0094J]	[0.027]	0.010U	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0059-04 / SB915-WB-09U / 07/19/2012 / Regular sample	SB915-0059-02 / SB915-WB-10L / 07/19/2012 / Regular sample	SB915-0060-11 / SB915-WB-10U / 07/20/2012 / Regular sample	SB915-0063-02 / WB18-MW-14BR / 07/25/2012 / Regular sample	SB915-0063-03 / WB18-MW-14D / 07/25/2012 / Regular sample	SCA-0055-09 / SB915-MW-100S / 07/14/2012 / Regular sample	SCA-0054-01 / SB915-MW-101S / 07/13/2012 / Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	5.0U	57B	180B	56B	84B	9.9	37.5
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	90	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	280B	57B	180B	56B	84B	10	37.6
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	13	2.0U	38	2.0U	1.9J	4.7UJ	7.4
BROMIDE	2(G)	mg/L	[4.9J]	20U	[26]	[61]	10U	[4.3J]	[3.6J]
CHEMICAL OXYGEN DEMAND	NC	mg/L	1000U	2100B	790B	3200J	5700J	1010	97.3
CHLORIDE	250(S)	mg/L	[9000]	[41000]	[17000]	[110000]	[29000]	[5080]	[3970]
HARDNESS (AS CACO3)	NC	mg/L	9700	40000	26000	11000	28000	4420	3400
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[3.4J]	[7.1J]	[19J]	[19B]	[2.8B]	[23.9]	[13.4]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	14J	25U	31	50	25U	21.1J	15.1J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.3UJ	5.0UJ	2.5U	13U	2.5U	0.11R	0.11
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	0.10R	0.11
NITROGEN, NITRITE	1(S)	mg/L	1.3UJ	5.0UJ	2.5U	13UJ	2.5UJ	0.010UJ	0.0020J
SULFATE	250(S)	mg/L	48	[710]	64	[2800]	94	39.8	86.3
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	19000	96000	44000	160000	51000	9890	8230
TOTAL ORGANIC CARBON	NC	mg/L	6.5J	0.77J	16J	1.0UJ	0.57J	2.2J	1.9R
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.057]	0.010U	[1.3]	[0.012J]	0.010U	0.20U	0.20U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0054-02 SB915-MW-102S 07/13/2012 Regular sample	SCA-0057-08 SB915-MW-103S 07/18/2012 Regular sample	SCA-0052-03 SB915-MW-87BR 07/11/2012 Regular sample	SCA-0052-04 SB915-MW-87I 07/11/2012 Regular sample	SCA-0052-02 SB915-MW-87S 07/11/2012 Regular sample	SCA-0053-04 SB915-MW-88BR 07/12/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	140	211	48.2	218	167	55.7
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	140	212	48.3	218	167	55.7
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	5.0U	2.0U	3.4U	3.4U	3.4U	3.4U
BROMIDE	2(G)	mg/L	[2.9J]	[3.3J]	[125]	[2.1J]	0.65J	[87.2J]
CHEMICAL OXYGEN DEMAND	NC	mg/L	66.7	15.3J	3030	24.7J	16.4J	1530
CHLORIDE	250(S)	mg/L	[2060]	[658]	[38900]	[1200]	87.5	[31500]
HARDNESS (AS CACO3)	NC	mg/L	1970	886	28600	1140	423	23700
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[4.1]	0.2	[19.5J]	1.3	0.20UJ	[20.8J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	4.7J	0.40UJ	2.7J	2.4J	0.4UJ	3.9J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.11U	1.3J	0.0071J	0.11R	0.93J	0.11R
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.10U	1.3J	0.0071J	0.10R	0.93J	0.10R
NITROGEN, NITRITE	1(S)	mg/L	0.010U	0.017	0.010U	0.010U	0.010U	0.010U
SULFATE	250(S)	mg/L	151	200	[1260]	[267]	169	[1080]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	4600	1880	77900	2740	548	68900
TOTAL ORGANIC CARBON	NC	mg/L	1.0R	1.1R	1.0U	1.0U	1.1R	1.0U
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.20U	0.20U	0.2U	0.2U	0.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0053-03 SB915-MW-88D 07/12/2012 Regular sample	SCA-0053-02 SB915-MW-88I 07/12/2012 Regular sample	SCA-0053-01 SB915-MW-88S 07/12/2012 Regular sample	SCA-0055-07 SB915-MW-89BR 07/14/2012 Regular sample	SCA-0055-06 SB915-MW-89D 07/14/2012 Regular sample	SCA-0055-05 SB915-MW-89I 07/14/2012 Regular sample	SCA-0055-04 SB915-MW-89S 07/14/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	20.7	64.1	189	36.4	82.1	123	284
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	20.7	64.2	198	36.4	82.3	123	285
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	9.9J	5.0U	3.4U	1.4J	0.88J	0.81J	3.4UJ
BROMIDE	2(G)	mg/L	[6.9J]	[3.7J]	1.4J	[357]	[5.1J]	[3.1]	1.3J
CHEMICAL OXYGEN DEMAND	NC	mg/L	1370	69.5J	47.3J	1890	472	50	30.6
CHLORIDE	250(S)	mg/L	[11000]	[4470]	[916]	[37600]	[5540]	[2920]	[458]
HARDNESS (AS CACO3)	NC	mg/L	9950	3980	1090	24900	5320	2600	716
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[40.4]	[36.2]	[9.4]	[44.8J]	[21.8]	[6.4J]	0.79J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	45.0J	49.8J	12.4J	17.9	16.0J	5.1J	0.40U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.11R	0.11U	0.012J	0.021J	0.11U	0.099J	1.3J
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.10R	0.10U	0.012J	0.021J	0.10U	0.10J	1.3J
NITROGEN, NITRITE	1(S)	mg/L	0.010U	0.010U	0.010U	0.010U	0.0017J	0.0011J	0.0014J
SULFATE	250(S)	mg/L	70.2	28.4	75.3	[1310]	32	65.6	98.5
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	21300	9150	2290	76600	10700	5350	1560
TOTAL ORGANIC CARBON	NC	mg/L	2.9J	5.3J	2.1J	1.0U	2.0J	2.0J	1.2R
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.2U	0.2U	0.2U	0.20U	0.20U	0.20U	0.20U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID / Location / Sample Date / Sample Purpose	SCA-0056-04 / SB915-MW-90BR / 07/17/2012 / Regular sample	SCA-0056-06 / SB915-MW-90I / 07/17/2012 / Regular sample	SCA-0056-01 / SB915-MW-90S / 07/17/2012 / Regular sample	SCA-0057-03 / SB915-MW-91BR / 07/18/2012 / Regular sample	SCA-0057-06 / SB915-MW-91D / 07/18/2012 / Regular sample	SCA-0057-01 / SB915-MW-91I / 07/18/2012 / Regular sample	SCA-0057-02 / SB915-MW-91SN / 07/18/2012 / Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		55.1	56.9	149	26	126	147	189
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L		55.2	57	150	26.4	126	147	189
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		0.84J	1.1J	1.3J	8.4	3.4U	3.4U	5.0U
BROMIDE	2(G)	mg/L		[209]	[5.0J]	[3.4]	[192]	[5.1J]	[6.9J]	[4.7J]
CHEMICAL OXYGEN DEMAND	NC	mg/L		826	65.3J	76.5J	17500	32.0J	48.7J	82.0J
CHLORIDE	250(S)	mg/L		[22700]	[3400]	[2130]	[81200]	[2410]	[2300]	[2840]
HARDNESS (AS CACO3)	NC	mg/L		15000	3030	2060	11700	2390	2170	2640
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[10.6]	[8.3J]	[3.6]	[14.3]	1.2	1.2	1.4
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		11.0J	6.9J	5.3J	14.6J	0.87J	0.87J	0.99J
NITROGEN, NITRATE (AS N)	10(S)	mg/L		0.11U	0.11U	0.60J	0.11U	0.11U	0.11U	0.28J
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		0.10U	0.10U	0.61J	0.010U	0.010U	0.10U	0.29J
NITROGEN, NITRITE	1(S)	mg/L		0.010U	0.023	0.0061J	0.014	0.010U	0.010U	0.0079J
SULFATE	250(S)	mg/L		[1360]	129	156	[2920]	189	195	197
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		44700	6710	3970	120000	4870	3990	5180
TOTAL ORGANIC CARBON	NC	mg/L		1.0U	1.3R	1.9R	3.5J	1.1R	1.0R	1.4R
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0057-05 SB915-MW-91S 07/18/2012 Regular sample	SCA-0057-04 SB915-MW-92BR 07/18/2012 Regular sample	SCA-0056-09 SB915-MW-92D 07/17/2012 Regular sample	SCA-0056-08 SB915-MW-92I 07/17/2012 Regular sample	SCA-0056-07 SB915-MW-92S 07/17/2012 Regular sample	SCA-0054-05 SB915-MW-93BR 07/13/2012 Regular sample	SCA-0054-06 SB915-MW-93D 07/13/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	6.7	48.7	208	168	8.6	27.6	163
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	455	5.0U	5.0U	5.0U	485	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	824	48.8	210	169	795	27.6	163
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	9.4	3.4U	3.4U	3.6J	43.7	2.7J	5.0U
BROMIDE	2(G)	mg/L	[16.4J]	[218]	[2.0J]	[4.6J]	[12.0J]	[541]	[3.0J]
CHEMICAL OXYGEN DEMAND	NC	mg/L	1840	3780	20U	37.5J	1230	5780	77.8
CHLORIDE	250(S)	mg/L	[17600]	[25600]	[736]	[2250]	[15100]	[74200]	[2380]
HARDNESS (AS CACO3)	NC	mg/L	20400	15300	915	2390	13600	43600	2290
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[6.4J]	[18.2]	0.20U	1.5	[10.4]	[46.8J]	[5.1]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	1.1J	19.8J	0.40U	1.2J	14.7J	24.4J	5.4J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.11U	0.11U	0.93J	0.64J	0.11U	0.017J	0.11U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.010U	0.010U	0.96J	0.65J	0.10U	0.017J	0.10U
NITROGEN, NITRITE	1(S)	mg/L	0.099	0.010U	0.029	0.011	0.071	0.010U	0.010U
SULFATE	250(S)	mg/L	60.9	[1410]	186	184	38.9	[1350]	144
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	29500	49300	1930	4350	32300	150000	4920
TOTAL ORGANIC CARBON	NC	mg/L	7.2J	1.0U	1.0U	3.0R	26.5J	1U	1.2
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.20U	0.20U	0.20U	[0.014J]	0.20U	0.20U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0054-04 SB915-MW-93I 07/13/2012 Regular sample	SCA-0054-03 SB915-MW-93S 07/13/2012 Regular sample	SCA-0052-01 SB915-MW-94S 07/11/2012 Regular sample	SCA-0053-05 SB915-MW-95S 07/12/2012 Regular sample	SCA-0057-09 SB915-MW-96S 07/18/2012 Regular sample	SCA-0055-03 SB915-MW-97S 07/14/2012 Regular sample	SCA-0055-02 SB915-MW-98S 07/14/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	160	123	330	122	205	249	244
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	154	123	332	123	206	250	244
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	3.4U	3.4U	2.0U	3.4U	2.0U	0.98J	1J
BROMIDE	2(G)	mg/L	[3.1J]	[2.8J]	0.50J	1.4J	[2.2J]	1.4J	1.4J
CHEMICAL OXYGEN DEMAND	NC	mg/L	66.7	75.1	13.7UJ	47.3J	20U	47.3	25
CHLORIDE	250(S)	mg/L	[2410]	[2150]	[272]	[676]	[398]	[644]	[926]
HARDNESS (AS CACO3)	NC	mg/L	2390	2090	597	677	607	851	1090
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[5.2]	[6]	0.12J	0.26	0.20U	1.6J	[4.6]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.4J	5.9J	1.5J	0.45J	0.40UJ	0.61J	4.3J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.11U	0.11U	0.28J	0.26	[960J]	0.59J	0.032J
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.10U	0.10U	0.28	0.27	[960J]	0.59J	0.032J
NITROGEN, NITRITE	1(S)	mg/L	0.010U	0.010U	0.0011J	0.0064J	0.0026J	0.010UJ	0.010U
SULFATE	250(S)	mg/L	145	94.6	30.2	139	107	99.5	66.7
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	5280	4600	1060	1820	1230	1770	2140
TOTAL ORGANIC CARBON	NC	mg/L	1.2R	1.5R	2.3J	1.0R	1.4R	1.3R	1.7R
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.20U	0.2U	0.2U	0.20U	0.20U	0.20U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 25
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0055-08 SB915-MW-99S 07/14/2012 Regular sample	SCA-0052-07 SB915-WB-02L 07/11/2012 Regular sample	SCA-0056-05 SB915-WB-04L 07/17/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	201	81.5	42.8
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	201	81.6	42.9
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.6J	1.3J	3.9J
BROMIDE	2(G)	mg/L	[2.6J]	[40.7J]	[7.6J]
CHEMICAL OXYGEN DEMAND	NC	mg/L	44.5	1490	566
CHLORIDE	250(S)	mg/L	[1620]	[47200]	[7660]
HARDNESS (AS CACO3)	NC	mg/L	1820	41800	6470
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[8.5J]	[13.4J]	[14.7]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.5J	3.1J	18.4J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.11U	0.011J	0.11R
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.10U	0.011J	0.10R
NITROGEN, NITRITE	1(S)	mg/L	0.010UJ	0.010U	0.010U
SULFATE	250(S)	mg/L	97.1	[844]	73.2
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	3850	95900	15200
TOTAL ORGANIC CARBON	NC	mg/L	1.9R	1.1R	1.6R
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.2U	0.20U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. B - Analyte detected in associated method blank.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 26
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Groundwater
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-0067-01	SB915-0064-01
		Location	SB915-MW-36D	SB915-WB-05L
		Sample Date	07/27/2012	07/25/2012
		Sample Purpose	Regular sample	Regular sample
Parameter Name	TEF	Units		
1,2,3,4,6,7,8-HPCDD	0.01	pg/L	0.0065	0.0031
1,2,3,4,6,7,8-HPCDF	0.01	pg/L	0.0053	0.0019
1,2,3,4,7,8,9-HPCDF	0.01	pg/L	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/L	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/L	0.016	---
1,2,3,6,7,8-HXCDD	0.1	pg/L	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/L	0.031	---
1,2,3,7,8,9-HXCDD	0.1	pg/L	0.065	---
1,2,3,7,8,9-HXCDF	0.1	pg/L	0.075	---
1,2,3,7,8-PECDD	1	pg/L	---	---
1,2,3,7,8-PECDF	0.03	pg/L	---	---
2,3,4,6,7,8-HXCDF	0.1	pg/L	0.027	0.011
2,3,4,7,8-PECDF	0.3	pg/L	0.12	---
2,3,7,8-TCDD	1	pg/L	---	---
2,3,7,8-TCDF	0.1	pg/L	0.033	---
OCDD	0.0003	pg/L	0.00246	0.00051
OCDF	0.0003	pg/L	0.000201	0.000129
TOTAL TEQ		pg/L	0.381461	0.016639

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0060-09 SB915-MW-100S 11/28/2012 Regular sample	SCA-0064-01 SB915-MW-101S 12/04/2012 Regular sample	SCA-0064-02 SB915-MW-102S 12/04/2012 Regular sample	SCA-0066-03 SB915-MW-103S 12/06/2012 Regular sample	SCA-0058-03 SB915-MW-87BR 11/26/2012 Regular sample	SCA-0058-05 SB915-MW-87I 11/26/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	0.31J	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0UJ	5.0U	5.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	[9.5]	[14.9]	[6.5]	0.23J	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	[7.9]	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	[282]	[62.5]	[10.8]	1.0U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U
BENZENE	1(S)	µg/L	[38.9]	[4.3]	1.0U	1.0U	1.0U	1.0U
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[512]	[101]	[21.3]	1.0U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	0.37J	1.1	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0060-09 SB915-MW-100S 11/28/2012 Regular sample	SCA-0064-01 SB915-MW-101S 12/04/2012 Regular sample	SCA-0064-02 SB915-MW-102S 12/04/2012 Regular sample	SCA-0066-03 SB915-MW-103S 12/06/2012 Regular sample	SCA-0058-03 SB915-MW-87BR 11/26/2012 Regular sample	SCA-0058-05 SB915-MW-87I 11/26/2012 Regular sample
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	0.32J	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.1	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.3	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0058-04 SB915-MW-87S 11/26/2012 Regular sample	SCA-0060-05 SB915-MW-88BR 11/28/2012 Regular sample	SCA-0060-06 SB915-MW-88D 11/28/2012 Regular sample	SCA-0060-02 SB915-MW-88I 11/28/2012 Regular sample	SCA-0060-01 SB915-MW-88S 11/28/2012 Regular sample	SCA-0061-04 SB915-MW-89BR 11/29/2012 Regular sample	SCA-0061-02 SB915-MW-89D 11/29/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U.	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	[64.9]	1.3	0.38J	1.0U	[35.1]
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.37J
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	[54.6]	[16.8]	1	1.0U	[18.1]
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	1.4J	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U	50U
BENZENE	1(S)	µg/L	1.0U	1.0U	[9.2]	[3.4]	1.0U	0.35J	[6.4]
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0UJ
CARBON DISULFIDE	60(G)	µg/L	2.0U	0.81J	2.0U	2.0U	2.0U	0.42J	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	[39.9]	[61.7]	0.63J	1.0U	[402]
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	0.46J	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	0.29J	1.0U	1.0U	0.83J
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0058-04 SB915-MW-87S 11/26/2012 Regular sample	SCA-0060-05 SB915-MW-88BR 11/28/2012 Regular sample	SCA-0060-06 SB915-MW-88D 11/28/2012 Regular sample	SCA-0060-02 SB915-MW-88I 11/28/2012 Regular sample	SCA-0060-01 SB915-MW-88S 11/28/2012 Regular sample	SCA-0061-04 SB915-MW-89BR 11/29/2012 Regular sample	SCA-0061-02 SB915-MW-89D 11/29/2012 Regular sample
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.59J	1.0U	1.0U	1.0U
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	0.24J	0.41J	1.0U	0.27J	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	0.72J
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.2
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0U	5.0UJ
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	0.87J	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0061-03 SB915-MW-89I 11/29/2012 Regular sample	SCA-0061-01 SB915-MW-89S 11/29/2012 Regular sample	SCA-0062-04 SB915-MW-90BR 11/30/2012 Regular sample	SCA-0062-02 SB915-MW-90I 11/30/2012 Regular sample	SCA-0062-01 SB915-MW-90S 11/30/2012 Regular sample	SCA-0065-03 SB915-MW-91BR 12/05/2012 Regular sample	SCA-0064-03 SB915-MW-91D 12/04/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	0.32J	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	[85.7]	1.0U	1.0U	[19.5]	[16.4]	1.0U	2
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	[7.4]	0.59J	1.0U	[5.9]
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	[75.4]	1.0U	1.0U	[77.8]	[27.3]	1.0U	1.3
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
ACRYLONITRILE	NC	µg/L	50U	50U	50UJ	50UJ	50UJ	50U	50U
BENZENE	1(S)	µg/L	[6.9]	1.0U	1.0U	[3.7]	0.26J	1.0U	0.75J
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0UJ	2.0UJ	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[329]	1.0U	1.0U	[145]	[25.9]	1.0U	[29.7J]
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	0.31J	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	0.36J	1.0U	1.0U	1.1	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

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Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0061-03 SB915-MW-89I 11/29/2012 Regular sample	SCA-0061-01 SB915-MW-89S 11/29/2012 Regular sample	SCA-0062-04 SB915-MW-90BR 11/30/2012 Regular sample	SCA-0062-02 SB915-MW-90I 11/30/2012 Regular sample	SCA-0062-01 SB915-MW-90S 11/30/2012 Regular sample	SCA-0065-03 SB915-MW-91BR 12/05/2012 Regular sample	SCA-0064-03 SB915-MW-91D 12/04/2012 Regular sample
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.1	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.1	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.1	1.0U	1.0U	1.0U	0.31J	1.0U	0.29J
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0UJ	5.0UJ	5.0U	5.0U	5.0U	5.0UJ	5.0UJ
VINYL ACETATE	NC	µg/L	10U	10U	10UJ	10UJ	10UJ	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.3	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0064-04 SB915-MW-91I 12/04/2012 Regular sample	SCA-0065-01 SB915-MW-91SN 12/05/2012 Regular sample	SCA-0065-04 SB915-MW-91S 12/05/2012 Regular sample	SCA-0066-04 SB915-MW-92BR 12/06/2012 Regular sample	SCA-0065-05 SB915-MW-92D 12/05/2012 Regular sample	SCA-0066-01 SB915-MW-92I 12/06/2012 Regular sample	SCA-0066-02 SB915-MW-92S 12/06/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	10U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	10U	5.0U	5.0U	5.0U	5.0UJ
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	20U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	4.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	[4.1]	0.38J	[22.0]	1.0U	1.0U	2.1	[128]
1,2-DICHLOROETHANE	0.6(S)	µg/L	[1.3]	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	[3.2]	0.42J	[17.5]	1.0U	1.0U	1.2	[61.3]
2-BUTANONE	50(G)	µg/L	10U	10U	20U	10U	10U	10U	36.3
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	10U	5.0U	5.0U	5.0U	5.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	10U	5.0U	5.0U	5.0U	2.9J
ACETONE	50(G)	µg/L	10U	10U	[112]	10U	10U	13.1	[428]
ACRYLONITRILE	NC	µg/L	50U	50U	100U	50U	50U	50U	50U
BENZENE	1(S)	µg/L	0.32J	[1.2]	[242]	1.0U	1.0U	[4.3]	[142]
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	10U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	8.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	4.0U	2.0UJ	2.0U	2.0UJ	2.0U
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	4.0U	0.31J	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[39.2]	1	[66.7]	1.0U	1.0U	4.5	[323]
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	2.0U	1.0UJ	1.0U	1.0UJ	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0064-04 SB915-MW-91I 12/04/2012 Regular sample	SCA-0065-01 SB915-MW-91SN 12/05/2012 Regular sample	SCA-0065-04 SB915-MW-91S 12/05/2012 Regular sample	SCA-0066-04 SB915-MW-92BR 12/06/2012 Regular sample	SCA-0065-05 SB915-MW-92D 12/05/2012 Regular sample	SCA-0066-01 SB915-MW-92I 12/06/2012 Regular sample	SCA-0066-02 SB915-MW-92S 12/06/2012 Regular sample
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	10U	5.0U	5.0U	5.0U	5.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	0.81J	1.0U	1.0U	1.0U	0.67J
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	4.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	10U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	0.23J	[46.1]	1.0U	1.0U	0.89J	[31.3]
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	10U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0UJ	5.0UJ	10UJ	5.0UJ	5.0UJ	5.0UJ	5.0UJ
VINYL ACETATE	NC	µg/L	10U	10U	20U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	2.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	[7.2]	1.0U	1.0U	0.74J	[16.3]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0063-01 SB915-MW-93BR 12/03/2012 Regular sample	SCA-0063-02 SB915-MW-93D 12/03/2012 Regular sample	SCA-0063-04 SB915-MW-93I 12/03/2012 Regular sample	SCA-0063-03 SB915-MW-93S 12/03/2012 Regular sample	SCA-0059-03 SB915-MW-94S 11/27/2012 Regular sample	SCA-0059-02 SB915-MW-95S 11/27/2012 Regular sample	SCA-0059-01 SB915-MW-96S 11/27/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	[12.3]	[10.7]	[7.7]	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	[18.3]	[16.6]	[12.8]	1.0U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	8.2J	10U	10U	10U	10U	10U	10U
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50U	50U	50U
BENZENE	1(S)	µg/L	1.0U	0.26J	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	[23.2]	[19.9]	[8.6]	1.0U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	0.25J	0.34J	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0063-01 SB915-MW-93BR 12/03/2012 Regular sample	SCA-0063-02 SB915-MW-93D 12/03/2012 Regular sample	SCA-0063-04 SB915-MW-93I 12/03/2012 Regular sample	SCA-0063-03 SB915-MW-93S 12/03/2012 Regular sample	SCA-0059-03 SB915-MW-94S 11/27/2012 Regular sample	SCA-0059-02 SB915-MW-95S 11/27/2012 Regular sample	SCA-0059-01 SB915-MW-96S 11/27/2012 Regular sample
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	0.23J	1.0U	0.23J	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0UJ	5.0UJ	5.0UJ	5.0UJ	5.0U	5.0U	5.0UJ
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10U	10U	10U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0059-04 SB915-MW-97S 11/27/2012 Regular sample	SCA-0059-05 SB915-MW-98S 11/27/2012 Regular sample	SCA-0060-08 SB915-MW-99S 11/28/2012 Regular sample	sca-0058-01 SB915-WB-02L 11/26/2012 Regular sample	SCA-0062-03 SB915-WB-04L 11/30/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[7.2]
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	2.1
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	10U	10U	10U	10U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	[18.0]	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	[10.2]
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	[85.8]	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	10U	10U	10U	10U	10U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10U	10U	10U	10U	10U
ACRYLONITRILE	NC	µg/L	50U	50U	50U	50U	50UJ
BENZENE	1(S)	µg/L	1.0U	1.0U	[3.0]	1.0U	[13.6]
BROMOCHLOROMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	4.0U	4.0U	4.0U	4.0U	4.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0UJ	2.0U
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	[126]	1.0U	3.4
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	0.24J	1.0U	[19.9]
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 27
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0059-04 SB915-MW-97S 11/27/2012 Regular sample	SCA-0059-05 SB915-MW-98S 11/27/2012 Regular sample	SCA-0060-08 SB915-MW-99S 11/28/2012 Regular sample	sca-0058-01 SB915-WB-02L 11/26/2012 Regular sample	SCA-0062-03 SB915-WB-04L 11/30/2012 Regular sample
DIBROMOMETHANE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U
STYRENE	5(S)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.2
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	5.0U	5.0UJ	5.0U	5.0U
VINYL ACETATE	NC	µg/L	10U	10U	10U	10U	10UJ
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0080-07 SB915-IMW-01S 11/14/2012 Regular sample	SB915-0077-04 SB915-IMW-02S 11/09/2012 Regular sample	SB915-0077-05 SB915-IMW-03S 11/09/2012 Regular sample	SB915-0077-06 SB915-IMW-04S 11/09/2012 Regular sample	SB915-0078-07 SB915-IMW-05S 11/12/2012 Regular sample	SB915-0078-06 SB915-IMW-06S 11/12/2012 Regular sample	SB915-0084-03 SB915-MW-01 11/20/2012 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	3000	8000	12000	1600	3400	2500	150
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[3.1]	[6.2]	[290]	[11]	1U	1U	1U
LEAD	0.025(S)	mg/L	0.03U	0.06U	0.15U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[52]	[70]	[170]	50U	50U	50U	50U
MANGANESE	0.3(S)	mg/L	[2.2]	[14]	[16]	[7.4]	0.15U	0.15U	[0.33]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	80	110	200	70	160	110	50U
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[1900]	[5400]	[7700]	[760]	[1800]	[1300]	50U
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA	NA

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose	Units	sb915-0074-04 SB915-MW-03 11/06/2012 Regular sample	SB915-0071-04 SB915-MW-04 11/01/2012 Regular sample	SB915-0071-07 SB915-MW-104I 11/01/2012 Regular sample	SB915-0072-03 SB915-MW-104S 11/02/2012 Regular sample	SB915-0070-04 SB915-MW-106I 10/31/2012 Regular sample	SB915-0070-03 SB915-MW-106S 10/31/2012 Regular sample	SB915-0073-03 SB915-MW-107BR 11/05/2012 Regular sample
ALUMINUM	NC		mg/L	NA	2U	2U	2U	2U	2U	NA
ANTIMONY	0.003(S)		mg/L	NA	0.1U	0.1U	0.1U	0.1U	0.1U	NA
ARSENIC	0.025(S)		mg/L	NA	0.1U	0.1U	0.1U	0.1U	0.1U	NA
BARIUM	1(S)		mg/L	NA	2U	2U	[30]	[6.3]	2U	NA
BERYLLIUM	0.003(G)		mg/L	NA	0.04U	0.04U	0.04U	0.04U	0.04U	NA
BORON	1(S)		mg/L	NA	2U	2U	2U	2U	2U	NA
CADMIUM	0.005(S)		mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC		mg/L	1200	4400	200	18000	2900	86	2600
CHROMIUM	0.05(S)		mg/L	NA	0.05U	0.05U	0.05U	0.05U	0.05U	NA
COBALT	NC		mg/L	NA	0.5U	0.5U	0.5U	0.5U	0.5U	NA
COPPER	0.2(S)		mg/L	NA	0.25U	0.25U	0.25U	0.25U	0.25U	NA
CYANIDE	0.2(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)		mg/L	[7.9]	[33]	1U	[35]	[12]	1U	[10]
LEAD	0.025(S)		mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)		mg/L	50U	[380]	50U	[590]	[220]	50U	[530]
MANGANESE	0.3(S)		mg/L	[0.94]	[18J]	0.2J	[11]	[1.9]	0.15U	[3]
MERCURY	0.0007(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)		mg/L	NA	0.4U	0.4U	0.4U	0.4U	0.4U	NA
POTASSIUM	NC		mg/L	69	50U	50U	50U	50U	50U	700
SELENIUM	0.01(S)		mg/L	NA	0.05U	0.05U	0.05U	0.05U	0.05U	NA
SILVER	0.05(S)		mg/L	NA	0.05U	0.05U	0.05U	0.05U	0.05U	NA
SODIUM	20(S)		mg/L	[1700]	[3900J]	[100J]	[13000]	[2400]	50U	[70000]
THALLIUM	0.0005(G)		mg/L	NA	0.1U	0.1U	0.1U	0.1U	0.1U	NA
TIN	NC		mg/L	NA	1U	1U	1U	1U	1U	NA
VANADIUM	NC		mg/L	NA	0.5U	0.5U	0.5U	0.5U	0.5U	NA
ZINC	2(G)		mg/L	NA	0.2U	0.2U	0.2U	0.2U	0.2U	NA

NOTES:

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0073-02 SB915-MW-107D 11/05/2012 Regular sample	sb915-0073-01 SB915-MW-107S 11/05/2012 Regular sample	SB915-0073-04 SB915-MW-107S 11/05/2012 Regular sample	SB915-0082-03 SB915-MW-108BR 11/16/2012 Regular sample	SB915-0081-01 SB915-MW-109I 11/15/2012 Regular sample	SB915-0081-02 SB915-MW-109S 11/15/2012 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	10000	1500	8500	510	4500	6600
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[17]	[4.8]	[11]	[2.6]	1U	1U
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[440]	[73]	[650]	[52]	[50]	50U
MANGANESE	0.3(S)	mg/L	[4.9]	[0.75]	[23]	0.27	0.23	0.15U
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	380	50U	50U	50U	150	300
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[30000]	[1000]	[6200]	[94]	[2800]	[4100]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0081-03 SB915-MW-110S 11/15/2012 Regular sample	SB915-0081-09 SB915-MW-111D 11/15/2012 Regular sample	SB915-0081-06 SB915-MW-111I 11/15/2012 Regular sample	SB915-0081-05 SB915-MW-111S 11/15/2012 Regular sample	SB915-0075-04 SB915-MW-112I 11/07/2012 Regular sample	SB915-0075-05 SB915-MW-105BR 11/07/2012 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	890	22000	13000	3600	12000	190
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[23]	[97]	[81]	[110]	[53]	[3.9]
LEAD	0.025(S)	mg/L	0.03U	0.15U	0.15U	0.03U	0.15U	0.03U
MAGNESIUM	35(G)	mg/L	50U	[160]	[240]	[85]	[79]	50U
MANGANESE	0.3(S)	mg/L	[5.2]	[7.9]	[5.6]	[4.1]	[15]	0.24
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	50U	270	170	50U	150	50U
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[480]	[17000]	[9000]	[2400]	[8300]	[72]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA

NOTES:

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0075-03 SB915-MW-112S 11/07/2012 Regular sample	SB915-0077-02 SB915-MW-113S 11/09/2012 Regular sample	SB915-0071-05 SB915-MW-115BR 11/01/2012 Regular sample	SB915-0071-01 SB915-MW-116S 11/01/2012 Regular sample	sb915-0074-01 SB915-MW-117S 11/06/2012 Regular sample	SB915-0070-02 SB915-MW-118BR 10/31/2012 Regular sample
ALUMINUM	NC	mg/L	NA	NA	2U	2U	NA	2U
ANTIMONY	0.003(S)	mg/L	NA	NA	0.1U	0.1U	NA	0.1U
ARSENIC	0.025(S)	mg/L	NA	NA	0.1U	0.1U	NA	0.1U
BARIUM	1(S)	mg/L	NA	NA	2U	2U	NA	2U
BERYLLIUM	0.003(G)	mg/L	NA	NA	0.04U	0.04U	NA	0.04U
BORON	1(S)	mg/L	NA	NA	2U	2U	NA	2U
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	2500	3900	3800	310	1200	1400
CHROMIUM	0.05(S)	mg/L	NA	NA	0.05U	0.05U	NA	0.05U
COBALT	NC	mg/L	NA	NA	0.5U	0.5U	NA	0.5U
COPPER	0.2(S)	mg/L	NA	NA	0.25U	0.25U	NA	0.25U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	1U	[23]	[11]	1U	[9.9]	[6.9]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	50U	[110]	[290]	[56]	[180]	[52]
MANGANESE	0.3(S)	mg/L	[2.5]	[1.4]	[1.6J]	[0.83J]	[1.7]	[0.48]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	0.4U	0.4U	NA	0.4U
POTASSIUM	NC	mg/L	110	52	150	50U	50U	50U
SELENIUM	0.01(S)	mg/L	NA	NA	0.05U	0.05U	NA	0.05U
SILVER	0.05(S)	mg/L	NA	NA	0.05U	0.05U	NA	0.05U
SODIUM	20(S)	mg/L	[1400]	[2900]	[8400J]	[160J]	[1400]	[1100]
THALLIUM	0.0005(G)	mg/L	NA	NA	0.1U	0.1U	NA	0.1U
TIN	NC	mg/L	NA	NA	1U	1U	NA	1U
VANADIUM	NC	mg/L	NA	NA	0.5U	0.5U	NA	0.5U
ZINC	2(G)	mg/L	NA	NA	0.2U	0.2U	NA	0.2U

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0070-01 SB915-MW-118S 10/31/2012 Regular sample	SB915-0072-01 SB915-MW-36D 11/02/2012 Regular sample	SB915-0072-02 SB915-MW-36I 11/02/2012 Regular sample	SB915-0084-01 SB915-MW-42D 11/20/2012 Regular sample	SB915-0084-02 SB915-MW-42I 11/20/2012 Regular sample	SB915-0083-02 SB915-MW-53D 11/19/2012 Regular sample	SB915-0083-03 SB915-MW-53I 11/19/2012 Regular sample
ALUMINUM	NC	mg/L	2U	2U	2U	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	NA	NA	NA	NA
BARIUM	1(S)	mg/L	2U	2U	[5.8]	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	NA	NA	NA	NA
BORON	1(S)	mg/L	2U	2U	2U	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	260	550	16000	18000	20000	310	21000
CHROMIUM	0.05(S)	mg/L	0.05U	0.05U	0.05U	NA	NA	NA	NA
COBALT	NC	mg/L	0.5U	0.5U	0.5U	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	0.25U	0.25U	0.25U	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	1U	[5.9]	1U	[140]	1U	[1.1]	1U
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.15U	0.15U	0.03U	0.15U
MAGNESIUM	35(G)	mg/L	[68]	[82]	50U	[220]	50U	50U	50U
MANGANESE	0.3(S)	mg/L	0.15U	0.15U	0.15U	[4.2]	0.15U	0.15U	0.15U
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	0.4U	0.4U	0.4U	NA	NA	NA	NA
POTASSIUM	NC	mg/L	50U	50U	350	210	550	50U	530
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.05U	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[130]	[400]	[9700]	[13000]	[13000]	[190]	[14000]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	NA	NA	NA	NA
TIN	NC	mg/L	1U	1U	1U	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.5U	0.5U	0.5U	NA	NA	NA	NA
ZINC	2(G)	mg/L	0.2U	0.2U	0.2U	NA	NA	NA	NA

NOTES:

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0080-02 SB915-MW-59S 11/14/2012 Regular sample	SB915-0080-01 SB915-MW-60S 11/14/2012 Regular sample	SB915-0082-02 SB915-MW-108D 11/16/2012 Regular sample	SB915-0079-01 SB915-MW-70D 11/13/2012 Regular sample	SB915-0079-02 SB915-MW-70S 11/13/2012 Regular sample	SB915-0078-02 SB915-MW-85D 11/12/2012 Regular sample	sb915-0074-02 SB915-PZ-07D 11/06/2012 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	2100	1300	140	9400	1800	13000	17000
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[8.3]	[23]	1U	[54]	[13]	[71]	1U
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.15U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[120]	50U	50U	[130]	[70]	[110]	50U
MANGANESE	0.3(S)	mg/L	[0.52]	[0.97]	0.15	[1.7]	[0.4]	[2.4]	0.15U
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	68	50U	50U	130	55	250U	400
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[1500]	[840]	[63]	[6700]	[1200]	[8700]	[11000]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA	NA

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose	Units	sb915-0074-03 / SB915-PZ-07I / 11/06/2012 / Regular sample	SB915-0078-01 / SB915-WB-01L / 11/12/2012 / Regular sample	SB915-0076-01 / SB915-WB-03L / 11/08/2012 / Regular sample	SB915-0079-04 / SB915-WB-05L / 11/13/2012 / Regular sample	SB915-0080-03 / SB915-WB-05M / 11/14/2012 / Regular sample	SB915-0079-03 / SB915-WB-05R / 11/13/2012 / Regular sample	SB915-0082-01 / SB915-WB-06 / 11/16/2012 / Regular sample
ALUMINUM	NC		mg/L	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
BARIUM	1(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)		mg/L	NA	NA	NA	NA	NA	NA	NA
BORON	1(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)		mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC		mg/L	13000	210	7000	17000	5000	4800	21000
CHROMIUM	0.05(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
COBALT	NC		mg/L	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)		mg/L	1U	[1.3]	[48]	[36]	[38]	[21]	[71]
LEAD	0.025(S)		mg/L	0.03U	0.03U	0.06U	0.15U	0.03U	0.3U	0.15U
MAGNESIUM	35(G)		mg/L	50U	50U	[390]	[210]	[150]	[990]	[140]
MANGANESE	0.3(S)		mg/L	0.15U	0.15U	[2.1]	[8.5]	[2.2]	[6]	[7.4]
MERCURY	0.0007(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC		mg/L	370	50U	59	230	180	1000	240
SELENIUM	0.01(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)		mg/L	NA	NA	NA	NA	NA	NA	NA
SODIUM	20(S)		mg/L	[7700]	50U	[4800]	[15000]	[4600]	[38000]	[15000]
THALLIUM	0.0005(G)		mg/L	NA	NA	NA	NA	NA	NA	NA
TIN	NC		mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC		mg/L	NA	NA	NA	NA	NA	NA	NA
ZINC	2(G)		mg/L	NA	NA	NA	NA	NA	NA	NA

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0080-05 SB915-WB-07L 11/14/2012 Regular sample	SB915-0081-04 SB915-WB-07R 11/15/2012 Regular sample	SB915-0080-06 SB915-WB-07U 11/14/2012 Regular sample	SB915-0077-03 SB915-WB-09L 11/09/2012 Regular sample	SB915-0077-01 SB915-WB-09U 11/09/2012 Regular sample	SB915-0078-05 SB915-WB-10L 11/12/2012 Regular sample	SB915-0080-04 SB915-WB-10U 11/14/2012 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.5U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	11000	2900	2700	13000	3600	11000	5200
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[40]	[6.1]	[15]	[41]	1U	[57]	[52]
LEAD	0.025(S)	mg/L	0.15U	0.3U	0.03U	0.15U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[330]	[490]	[140]	[230]	50U	[200]	[340]
MANGANESE	0.3(S)	mg/L	[2.7]	[4.3]	[0.54]	[3]	0.15U	[2.3]	[14]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	160	450	50U	84	160	250U	110
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[10000]	[66000]	[2900]	[10000]	[1800]	[9500]	[3200]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA	NA

NOTES:

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0075-02 WB18-MW-14BR 11/07/2012 Regular sample	SB915-0075-01 WB18-MW-14D 11/07/2012 Regular sample	SCA-0060-09 SB915-MW-100S 11/28/2012 Regular sample	SCA-0064-01 SB915-MW-101S 12/04/2012 Regular sample	SCA-0064-02 SB915-MW-102S 12/04/2012 Regular sample	SCA-0066-03 SB915-MW-103S 12/06/2012 Regular sample
ALUMINUM	NC	mg/L	NA	NA	0.318J	0.205	0.124J	0.054J
ANTIMONY	0.003(S)	mg/L	NA	NA	0.0025J	0.006U	0.006U	0.006U
ARSENIC	0.025(S)	mg/L	NA	NA	0.015U	0.003U	0.0032	0.003U
BARIUM	1(S)	mg/L	NA	NA	[1.94J]	0.991	0.0882	0.127
BERYLLIUM	0.003(G)	mg/L	NA	NA	0.001U	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	NA	NA	0.112	0.13	0.1U	0.1U
CADMIUM	0.005(S)	mg/L	0.5U	0.05U	0.001U	0.001U	0.001U	0.001U
CALCIUM	NC	mg/L	2700	9300	1360J	488	570	234
CHROMIUM	0.05(S)	mg/L	NA	NA	0.004U	0.004U	0.0011J	0.004U
COBALT	NC	mg/L	NA	NA	0.0024J	0.0025J	0.0018J	0.004U
COPPER	0.2(S)	mg/L	NA	NA	0.01U	0.01U	0.01U	0.01U
CYANIDE	0.2(S)	mg/L	NA	NA	0.010UJ	0.010UJ	0.010UJ	0.010UJ
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	0.0055R	0.0055UJ	0.0055UJ	0.0055U
IRON	0.3(S)	mg/L	[8.1]	[47]	[0.636]	[0.648]	[3.78]	0.0304J
LEAD	0.025(S)	mg/L	0.3U	0.06U	0.015U	0.003U	0.003U	0.003U
MAGNESIUM	35(G)	mg/L	[410]	[100]	[206J]	[106]	[35.5]	25.9
MANGANESE	0.3(S)	mg/L	[2]	[2.8]	0.069J	[0.475]	[0.605]	0.006
MERCURY	0.0007(S)	mg/L	NA	NA	5e-007U	5e-007U	5e-007U	0.00000073
NICKEL	0.1(S)	mg/L	NA	NA	0.0196J	0.01U	0.01UJ	0.01UJ
POTASSIUM	NC	mg/L	430	62	102J	56.7	23	8.89
SELENIUM	0.01(S)	mg/L	NA	NA	[0.0177J]	0.0044J	0.0033J	0.01U
SILVER	0.05(S)	mg/L	NA	NA	0.0037	0.002J	0.002J	0.003U
SODIUM	20(S)	mg/L	[60000]	[5600]	[1110]	[376]	[365]	[152]
THALLIUM	0.0005(G)	mg/L	NA	NA	0.01U	0.002U	0.002U	0.002U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	0.005U	0.0011J	0.0008J	0.005U
ZINC	2(G)	mg/L	NA	NA	0.01U	0.01U	0.01U	0.01U

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0058-03 SB915-MW-87BF 11/26/2012 Regular sample	SCA-0058-05 SB915-MW-87I 11/26/2012 Regular sample	SCA-0058-04 SB915-MW-87S 11/26/2012 Regular sample	SCA-0060-05 SB915-MW-88BR 11/28/2012 Regular sample	SCA-0060-06 SB915-MW-88D 11/28/2012 Regular sample	SCA-0060-02 SB915-MW-88I 11/28/2012 Regular sample	SCA-0060-01 SB915-MW-88S 11/28/2012 Regular sample
ALUMINUM	NC	mg/L	1.38	0.356	0.247	2.04J	0.702	0.383	0.725
ANTIMONY	0.003(S)	mg/L	0.03U	0.006U	0.006U	[0.0143J]	[0.0046J]	0.006U	0.006U
ARSENIC	0.025(S)	mg/L	0.015U	0.003U	0.003U	0.075U	0.03U	0.003U	0.003U
BARIUM	1(S)	mg/L	0.269J	0.0221J	0.0817J	0.194J	[2.13J]	[5.09J]	0.133J
BERYLLIUM	0.003(G)	mg/L	0.005U	0.001U	0.001U	0.005U	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	[1.16]	0.1U	0.1U	[3.07]	1U	0.1U	0.1U
CADMIUM	0.005(S)	mg/L	0.005U	0.001U	0.001U	[0.0074]	0.005U	0.001U	0.001U
CALCIUM	NC	mg/L	9410J	293J	114J	7380J	2940	965J	228J
CHROMIUM	0.05(S)	mg/L	0.026J	0.0049	0.0112	0.015J	0.0065	0.0023J	0.0064
COBALT	NC	mg/L	0.0213	0.0008J	0.004U	0.0079J	0.04U	0.0043	0.004U
COPPER	0.2(S)	mg/L	0.0445J	0.0061J	0.0044J	0.02U	0.01U	0.01U	0.01U
CYANIDE	0.2(S)	mg/L	0.0044J	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.028U	0.0055U	0.0044J	0.022U	0.022R	0.0055R	0.0055R
IRON	0.3(S)	mg/L	[3.77]	[1.03]	0.184	[9.17]	[14.2]	[9.03]	[2.16]
LEAD	0.025(S)	mg/L	0.03U	0.0019J	0.003U	0.075U	0.03U	0.003U	0.002J
MAGNESIUM	35(G)	mg/L	[868J]	[56.1J]	22.5J	[579J]	[176J]	[91.3J]	25.3J
MANGANESE	0.3(S)	mg/L	[5.57J]	0.0633J	0.0061J	[4.93J]	[1.43J]	[1.49J]	0.293J
MERCURY	0.0007(S)	mg/L	0.0000098	0.0000011	0.0000013	4.6e-007J	0.0000021	0.00000054	0.0000013
NICKEL	0.1(S)	mg/L	0.1U	0.0034J	0.0045J	0.0907J	0.0425J	0.0126	0.0098J
POTASSIUM	NC	mg/L	508J	12.7J	5.75J	489J	146J	62.1J	14.6J
SELENIUM	0.01(S)	mg/L	[0.0767]	0.0054J	0.01U	0.25U	0.1U	[0.0124]	0.01U
SILVER	0.05(S)	mg/L	0.0407	0.003U	0.003U	0.0419	0.0075	0.0057	0.0012J
SODIUM	20(S)	mg/L	[9450]	[413]	[48.7]	[6310]	[1560]	[569]	[155]
THALLIUM	0.0005(G)	mg/L	0.02U	0.01U	0.01U	0.05U	0.02U	0.006U	0.002U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.13U	0.005U	0.005U	0.025U	0.0013J	0.005U	0.0009J
ZINC	2(G)	mg/L	0.05U	0.01U	0.01U	0.05U	0.0428J	0.01U	0.01U

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

		Field Sample ID	SCA-0061-04	SCA-0061-02	SCA-0061-03	SCA-0061-01	SCA-0062-04	SCA-0062-02	SCA-0062-01
		Location	SB915-MW-89BR	SB915-MW-89D	SB915-MW-89I	SB915-MW-89S	SB915-MW-90BF	SB915-MW-90I	SB915-MW-90S
	NYS	Sample Date	11/29/2012	11/29/2012	11/29/2012	11/29/2012	11/30/2012	11/30/2012	11/30/2012
	Class GA	Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	Criteria	Units							
ALUMINUM	NC	mg/L	0.529	0.794	0.287	0.0842J	0.312J	0.47	2.18
ANTIMONY	0.003(S)	mg/L	[0.0066]	[0.0066]	[0.0038J]	0.006U	0.06U	0.006U	0.006U
ARSENIC	0.025(S)	mg/L	0.003U	0.009U	0.0017J	0.0013J	0.03U	0.006U	0.003U
BARIUM	1(S)	mg/L	0.149J	[1.98J]	0.203J	0.0594J	0.0563	0.169	0.114
BERYLLIUM	0.003(G)	mg/L	0.001U	0.001U	0.001U	0.001U	0.01U	0.001U	0.001U
BORON	1(S)	mg/L	0.46	0.108	0.1U	0.1U	[1.84]	0.115	0.0664J
CADMIUM	0.005(S)	mg/L	0.001U	0.001U	0.001U	0.001U	0.01U	0.001U	0.001U
CALCIUM	NC	mg/L	603J	1780J	883J	210J	4280	893	556
CHROMIUM	0.05(S)	mg/L	0.0015J	0.0055	0.0018J	0.004U	0.0113J	0.0032J	0.0096
COBALT	NC	mg/L	0.004U	0.0074	0.004	0.0018J	0.04U	0.0014J	0.0018J
COPPER	0.2(S)	mg/L	0.01U	0.0201	0.0117J	0.01U	0.1U	0.01U	0.01U
CYANIDE	0.2(S)	mg/L	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.022UJ	0.0055UJ	0.0055UJ	0.0055UJ	0.0055R	0.0055R	0.0055R
IRON	0.3(S)	mg/L	[15.6]	[0.976]	0.25	0.0406J	[10.9]	[2.14]	[5.19]
LEAD	0.025(S)	mg/L	0.003U	0.009U	0.003U	0.003U	0.03U	0.006U	0.003U
MAGNESIUM	35(G)	mg/L	[115J]	[129J]	[103J]	24.2J	[949]	[76.3]	[56]
MANGANESE	0.3(S)	mg/L	[0.697J]	[7.43J]	[3.68J]	[0.576J]	[5.96]	[1]	[1.28]
MERCURY	0.0007(S)	mg/L	0.00000057	0.0000011	0.00000094	5e-007U	0.00000065	3.5e-007J	0.0000011
NICKEL	0.1(S)	mg/L	0.01U	0.03U	0.01U	0.01U	0.044J	0.0115J	0.0116J
POTASSIUM	NC	mg/L	77.9J	80.4J	51J	12.3J	302	52	25.5
SELENIUM	0.01(S)	mg/L	0.0079J	[0.0188J]	[0.0129]	0.01U	[0.0514J]	0.0066J	0.0044J
SILVER	0.05(S)	mg/L	0.0026J	0.003U	0.003U	0.003U	0.0233J	0.003U	0.003U
SODIUM	20(S)	mg/L	[10300]	[926]	[603]	[107]	[7070]	[777]	[423]
THALLIUM	0.0005(G)	mg/L	0.04U	0.006U	[0.0018J]	0.002U	[0.017J]	0.002U	[0.0023]
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.005U	0.0058	0.003J	0.0008J	0.05U	0.0012J	0.0039J
ZINC	2(G)	mg/L	0.01U	0.03U	0.01U	0.01U	0.0809J	0.01U	0.0075J

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0065-03 SB915-MW-91BR 12/05/2012 Regular sample	SCA-0064-03 SB915-MW-91D 12/04/2012 Regular sample	SCA-0064-04 SB915-MW-91I 12/04/2012 Regular sample	SCA-0065-01 SB915-MW-91SN 12/05/2012 Regular sample	SCA-0065-04 SB915-MW-91S 12/05/2012 Regular sample	SCA-0066-04 SB915-MW-92BR 12/06/2012 Regular sample	SCA-0065-05 SB915-MW-92D 12/05/2012 Regular sample
ALUMINUM	NC	mg/L	2U	0.186J	2.65	0.245	10.9	0.0412J	0.052J
ANTIMONY	0.003(S)	mg/L	0.12U	0.006U	0.006U	0.006U	0.06U	[0.0736]	0.006U
ARSENIC	0.025(S)	mg/L	0.06U	0.0015J	0.0034	0.003U	0.0115J	0.03U	0.003U
BARIUM	1(S)	mg/L	0.101	0.0894	0.0713	0.209	[1.91]	0.0488	0.0565
BERYLLIUM	0.003(G)	mg/L	0.01U	0.001U	0.001U	0.001U	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	[2.12]	0.1U	0.1U	0.211	1U	[3.36]	0.195
CADMIUM	0.005(S)	mg/L	0.02U	0.001U	0.001U	0.001U	0.01U	0.01U	0.001U
CALCIUM	NC	mg/L	3090	727	626	740	5250	4620	257
CHROMIUM	0.05(S)	mg/L	0.08UJ	0.0018J	[0.146]	0.0046	0.0367J	0.04U	0.0014J
COBALT	NC	mg/L	0.08U	0.0022J	0.0053	0.0014J	0.01J	0.006J	0.0006J
COPPER	0.2(S)	mg/L	0.0497J	0.01U	0.0152J	0.0034J	0.1U	0.1U	0.0033J
CYANIDE	0.2(S)	mg/L	0.010U	0.010UJ	0.010UJ	0.010U	0.010U	0.010UJ	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055U	0.0055UJ	0.0055UJ	0.0055UJ	0.0033J	0.0055U	0.0055UJ
IRON	0.3(S)	mg/L	[2.11]	[1.38]	[6.32]	0.256	[8.58]	[12.8]	0.0639J
LEAD	0.025(S)	mg/L	0.06U	0.003U	0.003U	0.003U	0.03U	0.03U	0.003U
MAGNESIUM	35(G)	mg/L	[476]	[52.4]	[53.4]	[35.8]	24.1	[808]	33.3
MANGANESE	0.3(S)	mg/L	[2.25]	[0.461]	[0.846]	[0.512]	[0.411]	[5.61]	0.197
MERCURY	0.0007(S)	mg/L	5e-007UJ	0.00000082	0.0000025	0.0000024	[0.00335]	0.000001	0.00000078
NICKEL	0.1(S)	mg/L	0.2U	0.01U	0.094J	0.01U	0.1U	0.1U	0.01U
POTASSIUM	NC	mg/L	649	27	22.6	29.8	272	544	8.69
SELENIUM	0.01(S)	mg/L	0.2U	0.003J	0.0035J	0.005J	[0.0283J]	[0.0327J]	0.0025J
SILVER	0.05(S)	mg/L	0.06U	0.0028J	0.0032J	0.003U	0.03U	0.021J	0.003U
SODIUM	20(S)	mg/L	[32900]	[601]	[441]	[482]	[2320]	[8610]	[199]
THALLIUM	0.0005(G)	mg/L	0.2U	0.002U	0.002U	0.01U	[0.0273B]	0.02U	0.01U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.1U	0.0008J	0.0053	0.005U	0.0227J	0.05U	0.005U
ZINC	2(G)	mg/L	0.2U	0.01U	0.0116J	0.01U	0.0475J	0.0438J	0.01U

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0066-01 SB915-MW-92I 12/06/2012 Regular sample	SCA-0066-02 SB915-MW-92S 12/06/2012 Regular sample	SCA-0063-01 SB915-MW-93BR 12/03/2012 Regular sample	SCA-0063-02 SB915-MW-93D 12/03/2012 Regular sample	SCA-0063-04 SB915-MW-93I 12/03/2012 Regular sample	SCA-0063-03 SB915-MW-93S 12/03/2012 Regular sample	SCA-0059-03 SB915-MW-94S 11/27/2012 Regular sample
ALUMINUM	NC	mg/L	0.194J	2.25	1.63J	1.69	1.79	0.655	0.0501J
ANTIMONY	0.003(S)	mg/L	[0.003J]	[0.0818]	0.15U	0.0029J	[0.004J]	[0.0036J]	0.006U
ARSENIC	0.025(S)	mg/L	0.003U	0.03U	0.075U	0.003U	0.003U	0.003U	0.003U
BARIUM	1(S)	mg/L	0.191	[2.03]	0.134	0.0949	0.108	0.155	0.0761J
BERYLLIUM	0.003(G)	mg/L	0.001U	0.001U	0.025U	0.001U	0.001U	0.001U	0.001U
BORON	1(S)	mg/L	0.1U	1U	[2.36J]	0.0514J	0.0552J	0.0353J	0.1U
CADMIUM	0.005(S)	mg/L	0.0003J	0.01U	[0.0113J]	0.001U	0.001U	0.001U	0.001U
CALCIUM	NC	mg/L	683	5160	11600	692	718	703	173J
CHROMIUM	0.05(S)	mg/L	0.0039J	0.0203J	0.0431J	0.0045	0.0056	0.004	0.0023J
COBALT	NC	mg/L	0.0016J	0.0068J	0.0199J	0.0062	0.0052	0.0046	0.004U
COPPER	0.2(S)	mg/L	0.01U	0.028J	[0.377]	0.0125	0.0123J	0.01U	0.01U
CYANIDE	0.2(S)	mg/L	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055U	0.0055U	0.022U	0.0055U	0.0033J	0.0055U	0.0055U
IRON	0.3(S)	mg/L	0.148	[0.481]	[15.3]	[2.38]	[2.78]	[0.933]	0.132
LEAD	0.025(S)	mg/L	0.003U	0.03U	0.075U	0.003U		0.003U	0.003U
MAGNESIUM	35(G)	mg/L	30.4	0.971J	[2380]	[60.4]	[66.8]	[35]	34.5J
MANGANESE	0.3(S)	mg/L	0.0845	0.0166J	[12.8]	[1.12]	[1.13]	[1.07]	[0.856J]
MERCURY	0.0007(S)	mg/L	0.0000109	0.0000894	0.0000014	0.0000029	0.0000023	0.0000024	0.00000082
NICKEL	0.1(S)	mg/L	0.01UJ	0.1UJ	0.25UJ	0.01U	0.01U	0.01U	0.0051J
POTASSIUM	NC	mg/L	21.5	184	912	28	29.9	39	4.35J
SELENIUM	0.01(S)	mg/L	0.01U	[0.0413J]	[0.0625J]	0.01U	0.0027J	0.0032J	0.01U
SILVER	0.05(S)	mg/L	0.0033J	0.0267J	[0.0503J]	0.003U	0.003U	0.003U	0.003U
SODIUM	20(S)	mg/L	[443]	[3640]	[18600]	[399]	[421]	[365]	[61.7]
THALLIUM	0.0005(G)	mg/L	0.002U	0.02U	0.05U	0.002U	0.002U	0.002U	0.002U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.005U	0.05U	0.0248J	0.0033J	0.0031J	0.0016J	0.005U
ZINC	2(G)	mg/L	0.01U	0.0385J	0.25U	0.01U	0.01U	0.01U	0.01U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0059-02 SB915-MW-95S 11/27/2012 Regular sample	SCA-0059-01 SB915-MW-96S 11/27/2012 Regular sample	SCA-0059-04 SB915-MW-97S 11/27/2012 Regular sample	SCA-0059-05 SB915-MW-98S 11/27/2012 Regular sample	SCA-0060-08 SB915-MW-99S 11/28/2012 Regular sample	sca-0058-01 SB915-WB-02L 11/26/2012 Regular sample	SCA-0062-03 SB915-WB-04L 11/30/2012 Regular sample
ALUMINUM	NC	mg/L	0.0212J	0.324	0.724	0.2U	1.47	2.27	0.0996J
ANTIMONY	0.003(S)	mg/L	0.006U	0.006U	0.006U	[0.0043J]	0.006U	0.06U	0.03U
ARSENIC	0.025(S)	mg/L	0.003U	0.003U	0.003U	0.003U	0.003U	0.03U	0.015U
BARIUM	1(S)	mg/L	0.162J	0.0896J	0.0548J	0.198	0.133J	0.221J	0.542
BERYLLIUM	0.003(G)	mg/L	0.001U	0.001U	0.001U	0.001U	0.001U	0.005U	0.001U
BORON	1(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	1U	0.5U
CADMIUM	0.005(S)	mg/L	0.001U	0.001U	0.001U	0.001U	0.001U	0.01U	0.005U
CALCIUM	NC	mg/L	163J	137J	214J	456J	399	14400J	2080
CHROMIUM	0.05(S)	mg/L	0.0039J	0.0043	0.0054	0.0019J	0.0048	0.04U	0.0053J
COBALT	NC	mg/L	0.004U	0.004U	0.004U	0.0017J	0.0007J	0.0313J	0.02U
COPPER	0.2(S)	mg/L	0.01U	0.01U	0.01U	0.01U	0.01U	0.0738J	0.05U
CYANIDE	0.2(S)	mg/L	0.010U	0.010UJ	0.010U	0.010UJ	0.010UJ	0.010UJ	0.010UJ
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.0055U	0.0055U	0.0055U	0.0055U	0.0055R	0.028U	0.0055R
IRON	0.3(S)	mg/L	0.0494J	[0.469]	[0.895]	0.106	[2.69]	[23]	[9.99]
LEAD	0.025(S)	mg/L	0.003U	0.0018J	0.0021J	0.003U	0.003U	0.03U	0.015U
MAGNESIUM	35(G)	mg/L	11.6J	25.1J	34.6J	[50.3J]	[40.1J]	[829J]	[242]
MANGANESE	0.3(S)	mg/L	0.0085J	[0.346J]	0.105J	[0.63J]	[0.934J]	[2.61J]	[0.404]
MERCURY	0.0007(S)	mg/L	0.0000008	0.0000017	0.0000026	0.000002	0.0000032	0.0000014	2.8e-007J
NICKEL	0.1(S)	mg/L	0.0033J	0.0056J	0.0069J	0.0075J	0.0085J	0.1U	0.0204J
POTASSIUM	NC	mg/L	12.2J	9.41J	10.9J	24.2J	29.6J	177J	97.6
SELENIUM	0.01(S)	mg/L	0.01U	0.01U	0.01U	0.0042J	0.0025J	[0.0584J]	[0.0241J]
SILVER	0.05(S)	mg/L	0.0011J	0.0009J	0.0011J	0.0023J	0.0017J	0.0215J	0.0107J
SODIUM	20(S)	mg/L	[204]	[90.7]	[177]	[269]	[270]	[9530]	[1730]
THALLIUM	0.0005(G)	mg/L	0.002U	0.002U	0.002U	[0.0018J]	0.002U	[0.0485J]	0.01U
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.002J	0.005U	0.0011J	0.005U	0.0022J	0.05U	0.025U
ZINC	2(G)	mg/L	0.01U	0.0046J	0.0034J	0.01U	0.0046J	0.1U	0.0363J

NOTES:

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Table 28
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Inorganic Compound Data

		Field Sample ID	SB915-0083-01
		Location	SB915-MW-111BR
	NYS	Sample Date	11/19/2012
	Class GA	Sample Purpose	Regular sample
Parameter Name	Criteria	Units	
ALUMINUM	NC	mg/L	NA
ANTIMONY	0.003(S)	mg/L	NA
ARSENIC	0.025(S)	mg/L	NA
BARIUM	1(S)	mg/L	NA
BERYLLIUM	0.003(G)	mg/L	NA
BORON	1(S)	mg/L	NA
CADMIUM	0.005(S)	mg/L	0.5U
CALCIUM	NC	mg/L	20000
CHROMIUM	0.05(S)	mg/L	NA
COBALT	NC	mg/L	NA
COPPER	0.2(S)	mg/L	NA
CYANIDE	0.2(S)	mg/L	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA
IRON	0.3(S)	mg/L	[110]
LEAD	0.025(S)	mg/L	0.3U
MAGNESIUM	35(G)	mg/L	[4000]
MANGANESE	0.3(S)	mg/L	[27]
MERCURY	0.0007(S)	mg/L	NA
NICKEL	0.1(S)	mg/L	NA
POTASSIUM	NC	mg/L	3900
SELENIUM	0.01(S)	mg/L	NA
SILVER	0.05(S)	mg/L	NA
SODIUM	20(S)	mg/L	[37000]
THALLIUM	0.0005(G)	mg/L	NA
TIN	NC	mg/L	NA
VANADIUM	NC	mg/L	NA
ZINC	2(G)	mg/L	NA

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0080-07 SB915-IMW-01S 11/14/2012 Regular sample	SB915-0077-04 SB915-IMW-02S 11/09/2012 Regular sample	SB915-0077-05 SB915-IMW-03S 11/09/2012 Regular sample	SB915-0077-06 SB915-IMW-04S 11/09/2012 Regular sample	SB915-0078-07 SB915-IMW-05S 11/12/2012 Regular sample	SB915-0078-06 SB915-IMW-06S 11/12/2012 Regular sample	SB915-0084-03 SB915-MW-01 11/20/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	150	120	340	270	5.0U	5.0U	420
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	91	75	25R
ALKALINITY, TOTAL	NC	mg/L	150	120	340	270	230	290	450
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	3.3	7.8	54	2.0U	26J	24U	2.0U
BROMIDE	2(G)	mg/L	13U	25U	25U	5.0U	13U	13U	0.50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	1400	1500	2600	360	1400J	330	23R
CHLORIDE	250(S)	mg/L	[9200]	[20000]	[28000]	[3900]	[9700]	[8600]	59
HARDNESS (AS CACO3)	NC	mg/L	9900	19000	30000	4400	11000	10000	500
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.79	[2.6]	[36]	1.1	[5.4]	[4.6]	0.11R
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	25U	39	25U	7.9	6.8	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	5.0U	10U	10U	2.0U	5.0U	5.0U	0.20U
NITROGEN, NITRITE	1(S)	mg/L	1.3U	NA	NA	NA	NA	NA	NA
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	40	50U	50U	37	25U	25U	36
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	17000	33000	43000	7400	17000	16000	510J
TOTAL ORGANIC CARBON	NC	mg/L	1.2	1.7	24	6.1	9.4	6.6J	4.6J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.12J]	0.029R	[13]	[0.22J]	[0.17J]	0.11R	[0.054]

NOTES:

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Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	sb915-0074-04 SB915-MW-03 11/06/2012 Regular sample	SB915-0071-04 SB915-MW-04 11/01/2012 Regular sample	SB915-0071-07 SB915-MW-104I 11/01/2012 Regular sample	SB915-0072-03 SB915-MW-104S 11/02/2012 Regular sample	SB915-0070-04 SB915-MW-106I 10/31/2012 Regular sample	SB915-0070-03 SB915-MW-106S 10/31/2012 Regular sample	SB915-0073-03 SB915-MW-107BR 11/05/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		320	400	260	140	67	210	63
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L		320	400	260	140	67	210	63
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		2.0U	6.0U	2.0U	7.2	2.0U	2.0U	2.0U
BROMIDE	2(G)	mg/L		5.0U	13U	0.50U	50U	13U	0.50U	250U
CHEMICAL OXYGEN DEMAND	NC	mg/L		1200	1500	29	4300	3000	10U	7800
CHLORIDE	250(S)	mg/L		[3700]	[14000]	220	[51000]	[12000]	73	[120000]
HARDNESS (AS CACO3)	NC	mg/L		3500	13000	680	52000	8400	310	9600
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[20]	[6.5J]	0.16J	0.36	1.5	0.10U	[17]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		28	4	0.26	0.20U	0.81	0.20U	10
NITROGEN, NITRATE (AS N)	10(S)	mg/L		2.0U	5.0U	0.55	20U	5.0U	0.20U	100U
NITROGEN, NITRITE	1(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L		[330]	[320]	210	100U	25U	33	[4100]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		8700	25000	820	89000	23000	320J	190000
TOTAL ORGANIC CARBON	NC	mg/L		1.9	4.6	1	2	1.0U	1.0U	1.0U
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		0.010U	[0.031J]	[0.39J]	[0.031]	0.010U	0.010U	[0.24J]

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0073-02 SB915-MW-107D 11/05/2012 Regular sample	SB915-0073-01 SB915-MW-107S 11/05/2012 Regular sample	SB915-0073-04 SB915-MW-107S 11/05/2012 Regular sample	SB915-0082-03 SB915-MW-108BR 11/16/2012 Regular sample	SB915-0081-01 SB915-MW-109I 11/15/2012 Regular sample	SB915-0081-02 SB915-MW-109S 11/15/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	80	190	140	200	63	5.0U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	90J
ALKALINITY, TOTAL	NC	mg/L	80	190	140	200J	63J	740J
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0U	2.0U	2.0U	6.4	13
BROMIDE	2(G)	mg/L	50U	5.0U	25U	1.3U	13U	25U
CHEMICAL OXYGEN DEMAND	NC	mg/L	7000	260	1500	30J	510	540
CHLORIDE	250(S)	mg/L	[73000]	[4000]	[27000]	180	[13000]	[17000]
HARDNESS (AS CACO3)	NC	mg/L	31000	4400	27000	1700	12000	17000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[20]	1.9	0.54	0.98J	[5.6]	[6.1]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	8.1	2.6	0.20U	5.0U	6.8	6.8
NITROGEN, NITRATE (AS N)	10(S)	mg/L	20U	2.0U	10U	0.50U	5.0U	10U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	[1200]	170	50U	[1400]	[640]	50U
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	110000	7500	46000	2400	23000	28000
TOTAL ORGANIC CARBON	NC	mg/L	1.0U	1.0U	1.0U	1.0U	1.5J	3.2J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.017R	0.010U	0.031R	[0.011J]	[0.10J]	[1.0J]

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0081-03 SB915-MW-110S 11/15/2012 Regular sample	SB915-0081-09 SB915-MW-111D 11/15/2012 Regular sample	SB915-0081-06 SB915-MW-111I 11/15/2012 Regular sample	SB915-0081-05 SB915-MW-111S 11/15/2012 Regular sample	SB915-0075-04 SB915-MW-112I 11/07/2012 Regular sample	SB915-0075-05 SB915-MW-105BF 11/07/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	290	42	51	250	92	140
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	290J	42	51J	250J	92	140
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.1	3.6	3.4	24U	3.7	20
BROMIDE	2(G)	mg/L	2.5U	50U	50U	13U	25U	0.50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	240	2700	1000J	520J	13000	31
CHLORIDE	250(S)	mg/L	[1600]	[55000]	[36000]	[9500]	[39000]	[250]
HARDNESS (AS CACO3)	NC	mg/L	2000	52000	36000	11000	35000	580
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.20J	[22]	[12]	[7]	[7.2]	[6.8]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.6	10	7.9	25U	25U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.0U	20U	20U	5.0U	10U	0.53
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	51	170	190	29	74	54
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	3500	97000	61000	19000	57000	780
TOTAL ORGANIC CARBON	NC	mg/L	3.2J	1.4J	1.4J	13J	2.1	3.2
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.012J]	[0.044]	0.010U	[0.029J]	0.018R	0.022R

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0075-03 SB915-MW-112S 11/07/2012 Regular sample	SB915-0077-02 SB915-MW-113S 11/09/2012 Regular sample	SB915-0071-05 SB915-MW-115BR 11/01/2012 Regular sample	SB915-0071-01 SB915-MW-116S 11/01/2012 Regular sample	sb915-0074-01 SB915-MW-117S 11/06/2012 Regular sample	SB915-0070-02 SB915-MW-118BR 10/31/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	23	5.0U	130	320	140	190
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	25	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	23	27	130	320	140	190
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	4.9	2.0U	2.0U	2.0U	2.0U	2.0U
BROMIDE	2(G)	mg/L	5.0U	13U	25U	0.50U	5.0U	5.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	700	440	5700J	22	790	300
CHLORIDE	250(S)	mg/L	[7000]	[8400]	[19000]	[430]	[3900]	[3200]
HARDNESS (AS CACO3)	NC	mg/L	6900	10000	11000	1000	4200	3700
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[4.2]	[3.2]	[5.5J]	0.10UJ	0.34	[5.4]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	25U	1.7	0.20U	25U	6
NITROGEN, NITRATE (AS N)	10(S)	mg/L	2.0U	5.0U	10U	0.20UJ	2.0U	2.0U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	11	[460]	[1300]	230	120	[1100]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	14000	19000	34000	1400	10000	3500
TOTAL ORGANIC CARBON	NC	mg/L	3.2	2.1	1.0U	3.9	1.0U	1.2
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.017R	[0.22J]	[0.015J]	[0.025J]	0.010U	0.010U

NOTES:

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Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-0070-01 SB915-MW-118S 10/31/2012 Regular sample	SB915-0072-01 SB915-MW-36D 11/02/2012 Regular sample	SB915-0072-02 SB915-MW-36I 11/02/2012 Regular sample	SB915-0084-01 SB915-MW-42D 11/20/2012 Regular sample	SB915-0084-02 SB915-MW-42I 11/20/2012 Regular sample	SB915-0083-02 SB915-MW-53D 11/19/2012 Regular sample	SB915-0083-03 SB915-MW-53I 11/19/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		330	220	5.0U	31	5.0U	180	5.0U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	90	5.0U	170J	20J	74J
ALKALINITY, TOTAL	NC	mg/L		330	220	760		1500	200J	1500
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		2.0U	2.0U	2.0U	3	7	2.0U	24U
BROMIDE	2(G)	mg/L		0.50U	2.5U	50U	50U	50U	0.50U	50U
CHEMICAL OXYGEN DEMAND	NC	mg/L		51	95	4000	2100	1800	31J	3500
CHLORIDE	250(S)	mg/L		[480]	[1500]	[45000]	[43000]	[42000]	[490]	[57000]
HARDNESS (AS CACO3)	NC	mg/L		900	1700	44000	43000	38000	860	56000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		0.17	0.45	[13]	[15]	[9.7]	1.3J	[14]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		0.55	0.48	12	25	42	5.0U	28
NITROGEN, NITRATE (AS N)	10(S)	mg/L		0.20U	1.0U	20U	20U	20U	0.050U	5.0U
NITROGEN, NITRITE	1(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L		130	160	100U	100U	100U	190	100U
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		1200	3200	72000	69000	71000	1500	99000
TOTAL ORGANIC CARBON	NC	mg/L		8.9	1.0U	1.9	1.6J	3.1J	1.0U	9.4J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.33]	[0.19]	[0.036]	[0.14]	[0.15]	[0.49]	[0.43]

NOTES:

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Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0080-02 / SB915-MW-59S / 11/14/2012 / Regular sample	SB915-0080-01 / SB915-MW-60S / 11/14/2012 / Regular sample	SB915-0082-02 / SB915-MW-108D / 11/16/2012 / Regular sample	SB915-0079-01 / SB915-MW-70D / 11/13/2012 / Regular sample	SB915-0079-02 / SB915-MW-70S / 11/13/2012 / Regular sample	SB915-0078-02 / SB915-MW-85D / 11/12/2012 / Regular sample	sb915-0074-02 / SB915-PZ-07D / 11/06/2012 / Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	49	190	210	36	83	22	5.0U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	23R	5.0U	5.0U	5.0U	110
ALKALINITY, TOTAL	NC	mg/L	49	190	230J	36	83	22	960
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.1	7.3	2.0U	2.8	2.1	6.0U	15
BROMIDE	2(G)	mg/L	13U	5.0U	0.50U	50U	5.0U	50U	50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	990	400	24R	2300	360	3700J	4100
CHLORIDE	250(S)	mg/L	[8000]	[4200]	98	[35000]	[5900]	[47000]	[37000]
HARDNESS (AS CACO3)	NC	mg/L	7800	4300	500	34000	6000	46000	46000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[12]	[4.1]	0.21J	[12]	[4.6]	[19]	[15]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	15	6.2	5.0U	25U	7.3	28	25
NITROGEN, NITRATE (AS N)	10(S)	mg/L	5.0U	2.0U	0.20U	20U	2.0U	20U	20U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	84	10U	220	100U	140	100U	100U
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	14000	7000	650J	62000	12000	61000J	71000
TOTAL ORGANIC CARBON	NC	mg/L	1.0U	2.5	1.0U	1.1	1.2	1.6J	3.4
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.054R	0.045R	[0.011J]	0.056R	0.012R	[0.21J]	[0.44J]

NOTES:

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Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	sb915-0074-03 SB915-PZ-07I 11/06/2012 Regular sample	SB915-0078-01 SB915-WB-01L 11/12/2012 Regular sample	SB915-0076-01 SB915-WB-03L 11/08/2012 Regular sample	SB915-0079-04 SB915-WB-05L 11/13/2012 Regular sample	SB915-0080-03 SB915-WB-05M 11/14/2012 Regular sample	SB915-0079-03 SB915-WB-05R 11/13/2012 Regular sample	SB915-0082-01 SB915-WB-06 11/16/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		5.0U	290	81	46	66	25	50
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		71	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L		510	290	81	46	66	25	50J
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		2.0U	2.0U	2.7	2.1	6.0U	6.0U	2.2
BROMIDE	2(G)	mg/L		50U	0.50U	25U	50U	13U	[320]	50U
CHEMICAL OXYGEN DEMAND	NC	mg/L		5000	10UJ	1500	1700	1300	12000	69000
CHLORIDE	250(S)	mg/L		[28000]	76	[18000]	[58000]	[12000]	[110000]	[56000]
HARDNESS (AS CACO3)	NC	mg/L		37000	880	18000	55000	11000	30000	51000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[9.9]	0.22	[2.3]	[15]	[20]	[52]	[15]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		25U	5.0U	25U	28	24	25U	16
NITROGEN, NITRATE (AS N)	10(S)	mg/L		20U	0.20U	2.5U	20U	5.0U	100U	20U
NITROGEN, NITRITE	1(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L		100U	[470]	[460]	[270]	37	[1300]	100U
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		60000	1000	27000	83000	19000	130000	94000
TOTAL ORGANIC CARBON	NC	mg/L		1.9	1.2	1.0U	1.1	1.0U	1.0U	1.0U
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		0.072R	0.010UJ	0.010U	[0.15J]	[0.12J]	[0.16J]	[0.092J]

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Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-0080-05 SB915-WB-07L 11/14/2012 Regular sample	SB915-0081-04 SB915-WB-07R 11/15/2012 Regular sample	SB915-0080-06 SB915-WB-07U 11/14/2012 Regular sample	SB915-0077-03 SB915-WB-09L 11/09/2012 Regular sample	SB915-0077-01 SB915-WB-09U 11/09/2012 Regular sample	SB915-0078-05 SB915-WB-10L 11/12/2012 Regular sample	SB915-0080-04 SB915-WB-10U 11/14/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		79	66	150	93	5.0U	78	150
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	5.0U	78	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L		79	66J	150	93	230	78	150
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		2.0U	2.0U	2.0U	2.0U	10	6.0U	27
BROMIDE	2(G)	mg/L		50U	130U	13U	50U	13U	50U	25U
CHEMICAL OXYGEN DEMAND	NC	mg/L		2000	2500	900	3400	880	1100J	2000
CHLORIDE	250(S)	mg/L		[36000]	[94000]	[9400]	[37000]	[8100]	[39000]	[16000]
HARDNESS (AS CACO3)	NC	mg/L		33000	8600	8600	36000	9200	37000	17000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[7.1]	[12]	[2.5]	[3.5]	[5]	[5.9]	[12]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		8.4	10	5.1	25U	25U	25	14
NITROGEN, NITRATE (AS N)	10(S)	mg/L		20U	50U	5.0U	20U	5.0U	20U	10U
NITROGEN, NITRITE	1(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
NITROGEN, NITRATE-NITRITE	10(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L		[540]	[4300]	[670]	[950]	68	[850]	140
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		62000	150000	18000	56000	15000	66000	25000
TOTAL ORGANIC CARBON	NC	mg/L		1.0U	1.0U	1.0U	1.0U	9.1	1.0U	15
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		0.041R	[0.034J]	0.049R	0.045R	[0.29J]	0.010UJ	[0.14J]

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Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0075-02 WB18-MW-14BR 11/07/2012 Regular sample	SB915-0075-01 WB18-MW-14D 11/07/2012 Regular sample	SCA-0060-09 SB915-MW-100S 11/28/2012 Regular sample	SCA-0064-01 SB915-MW-101S 12/04/2012 Regular sample	SCA-0064-02 SB915-MW-102S 12/04/2012 Regular sample	SCA-0066-03 SB915-MW-103S 12/06/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	59	100	9.8	44.9	144	206
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	59	100	9.8	45.3	145	208
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	3.2	10U	4.2U	5.0U	3.4U
BROMIDE	2(G)	mg/L	250U	25U	[3.4J]	[2.3J]	1.2J	0.54J
CHEMICAL OXYGEN DEMAND	NC	mg/L	35000	5000	54.1J	80.2	26	10.6J
CHLORIDE	250(S)	mg/L	[140000]	[31000]	[4880]	[3320]	[1560]	[485]
HARDNESS (AS CACO3)	NC	mg/L	11000	26000	4300	3580	5370	716
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[17]	[2.7]	[20.6]	[9.2]	[3.4]	0.081J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	25U	24.7	10.9J	3.3J	0.80UJ
NITROGEN, NITRATE (AS N)	10(S)	mg/L	100U	10U	0.011U	0.084J	0.11U	1.3
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	0.010U	0.010U	0.010U	0.024
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	NA	NA	0.10U	0.084J	0.10U	1.3
SULFATE	250(S)	mg/L	[4100]	110	44.6	111	170	188
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	180000	44000	9720	6010	3660	1360J
TOTAL ORGANIC CARBON	NC	mg/L	1.0U	1.0U	2.1J	1.1J	1.6J	1.3
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	0.023R	0.20UJ	0.20U	0.20U	0.2UJ

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Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0058-03 SB915-MW-87BR 11/26/2012 Regular sample	SCA-0058-05 SB915-MW-87I 11/26/2012 Regular sample	SCA-0058-04 SB915-MW-87S 11/26/2012 Regular sample	SCA-0060-05 SB915-MW-88BR 11/28/2012 Regular sample	SCA-0060-06 SB915-MW-88D 11/28/2012 Regular sample	SCA-0060-02 SB915-MW-88I 11/28/2012 Regular sample	SCA-0060-01 SB915-MW-88S 11/28/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	47.6	226	211	63.7	24.5	76.5	223
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	47.8	227	216	63.7	24.5	76.6	223
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	5.0U	5.0U	3.4U	5.0U	7.7	16.5	3.4U
BROMIDE	2(G)	mg/L	[138]	1.4J	0.29J	[89.1]	[6.6]	[2.5J]	0.62J
CHEMICAL OXYGEN DEMAND	NC	mg/L	1330	178	222	960J	840J	103J	9.8J
CHLORIDE	250(S)	mg/L	[36600]	[1030]	103	[29500]	[9380]	[3220]	[533]
HARDNESS (AS CACO3)	NC	mg/L	37400	1030	384	21800	9950	3250	800
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[23]	1.4	0.20U	0.20U	[32]	[32.6]	[5.6]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	19.2	1.9	0.80U	28.3	39.4	38.3	5.7
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.11R	0.11R	1.2J	0.11U	0.11U	0.11U	0.28J
NITROGEN, NITRITE	1(S)	mg/L	0.010U	0.010U	0.012	0.010U	0.010U	0.010U	0.010U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.10R	0.10R	1.2J	0.10U	0.10U	0.10U	0.28J
SULFATE	250(S)	mg/L	[1040]	[257]	188	[1030]	32.5J	4.4J	108
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	66800	2740	595	57800	13700	6050	1460
TOTAL ORGANIC CARBON	NC	mg/L	1.0U	1.0U	1.0U	1.0U	3.3J	6.0J	1.8J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.2U	0.2U	0.2U	0.20UJ	0.20UJ	0.20UJ	[0.042J]

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Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0061-04 SB915-MW-89BR 11/29/2012 Regular sample	SCA-0061-02 SB915-MW-89D 11/29/2012 Regular sample	SCA-0061-03 SB915-MW-89I 11/29/2012 Regular sample	SCA-0061-01 SB915-MW-89S 11/29/2012 Regular sample	SCA-0062-04 SB915-MW-90BR 11/30/2012 Regular sample	SCA-0062-02 SB915-MW-90I 11/30/2012 Regular sample	SCA-0062-01 SB915-MW-90S 11/30/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	46.5	73.3	74.5	304	65	53.9	135
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	46.6	73.5	74.7	306	65.5	54.5	135
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	1.7J	1.2J	3.4U	3.4U	5.0U	5.0U	5.0U
BROMIDE	2(G)	mg/L	[292]	[3.9J]	[2.4J]	0.58J	[197]	[2.4]	1.6
CHEMICAL OXYGEN DEMAND	NC	mg/L	384J	73.8J	22.1J	17.2J	1540	136	50.7
CHLORIDE	250(S)	mg/L	[33500]	[5400]	[3050]	[395]	[22600]	[3190]	[1890]
HARDNESS (AS CACO3)	NC	mg/L	19800	5770	2990	682	15800	2750	1920
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[30.8J]	[24.4]	[6.9]	0.75J	[13.2]	[6.4]	[4.1]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	8	6.2J	2.4J	0.13J	10.2J	5.3J	4.0J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.11U	0.11U	0.11J	0.74J	0.11J	0.012J	0.11J
NITROGEN, NITRITE	1(S)	mg/L	0.010U	0.010U	0.010U	0.010U	0.010U	0.019	0.010U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.10U	0.10U	0.10U	0.74J	0.10U	0.031J	0.10U
SULFATE	250(S)	mg/L	[1200]	20.5	61.7	92.1	[1390]	136	163
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	61300	9300	6460	1110	35700	6770	4680
TOTAL ORGANIC CARBON	NC	mg/L	1.0U	2.3J	2.3J	1.4J	1.0U	1.1J	1.0U
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U	0.20U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0065-03 SB915-MW-91BR 12/05/2012 Regular sample	SCA-0064-03 SB915-MW-91D 12/04/2012 Regular sample	SCA-0064-04 SB915-MW-91I 12/04/2012 Regular sample	SCA-0065-01 SB915-MW-91SN 12/05/2012 Regular sample	SCA-0065-04 SB915-MW-91S 12/05/2012 Regular sample	SCA-0066-04 SB915-MW-92BR 12/06/2012 Regular sample	SCA-0065-05 SB915-MW-92D 12/05/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	31.9	122	148	204	23.9	61	209
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	1230	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	31.9	123	149	204	1530	61.3	209
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	7.6U	3.4U	5.0U	5.0U	6.4J	5.0U	3.4U
BROMIDE	2(G)	mg/L	[156J]	1.8J	1.6J	1.5J	[9.9]	[204]	0.66J
CHEMICAL OXYGEN DEMAND	NC	mg/L	6140	21.2	26	24.8	944	1270	10.6J
CHLORIDE	250(S)	mg/L	[80700]	[2250]	[2020]	[2030]	[16400]	[27200]	[582]
HARDNESS (AS CACO3)	NC	mg/L	13400	2390	2890	3880	19900	15700	2590
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[17.5]	1.4	1.4	1.3J	[6.4]	[18.2J]	0.20U
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	19.2J	1.2J	1.1J	0.45J	7.7J	23.6	0.80UJ
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.016J	0.11J	0.11J	0.051J	0.11J	0.11U	1.1J
NITROGEN, NITRITE	1(S)	mg/L	0.010U	0.0099J	0.010U	0.0024J	0.1	0.010U	0.025
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.016J	0.10U	0.10U	0.053J	0.018J	0.10U	1.1J
SULFATE	250(S)	mg/L	[3000]	179	177	191	100U	[1470]	187
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	104000J	4630	4250	4730J	32100J	48900J	1690
TOTAL ORGANIC CARBON	NC	mg/L	3.9J	0.92J	0.72J	1.2J	7.2	2	1.0U
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20U	0.20U	0.20U	0.20U	0.20U	[0.27]	0.20U

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0066-01 SB915-MW-92I 12/06/2012 Regular sample	SCA-0066-02 SB915-MW-92S 12/06/2012 Regular sample	SCA-0063-01 SB915-MW-93BR 12/03/2012 Regular sample	SCA-0063-02 SB915-MW-93D 12/03/2012 Regular sample	SCA-0063-04 SB915-MW-93I 12/03/2012 Regular sample	SCA-0063-03 SB915-MW-93S 12/03/2012 Regular sample	SCA-0059-03 SB915-MW-94S 11/27/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	161	5.0U	8.6	159	167	127	390
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	546	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	162	1260	8.6	159	167	127	391
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	1.5J	38.2	5.0U	5.0U	3.4U	3.4U	3.4U
BROMIDE	2(G)	mg/L	1.4J	[9.0J]	[510]	1.5J	1.7J	1.4J	0.28J
CHEMICAL OXYGEN DEMAND	NC	mg/L	20.1	1090	15.3J	17.7J	13J	15.3J	17.5J
CHLORIDE	250(S)	mg/L	[1880]	[15400]	[73000]	[2150]	[2210]	[1910]	248
HARDNESS (AS CACO3)	NC	mg/L	1770	13800	50700	7460	3380	7210	562
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	1	[10.3]	[21.2J]	[4.4]	[4.5]	[5.3]	0.20U
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	1.0J	30.2J	3.1J	3.3J	6.5J	7.9J	0.2U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.86	0.20U	0.028J	0.11U	0.11U	0.11U	0.98J
NITROGEN, NITRITE	1(S)	mg/L	0.0012J	0.18	0.010U	0.010U	0.010U	0.010U	0.0012J
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.86	0.021J	0.028J	0.10U	0.10U	0.10U	0.98J
SULFATE	250(S)	mg/L	189	81.8J	[1260]	149	150	123	25.1
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	4650J	32200J	100000	4970	6160	4370	804
TOTAL ORGANIC CARBON	NC	mg/L	2.1	28.7	1.3J	1.3J	1.7J	1.5J	2.4J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.2U	0.2UJ	0.20U	0.20U	0.20U	0.20U	0.20UJ

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0059-02 SB915-MW-95S 11/27/2012 Regular sample	SCA-0059-01 SB915-MW-96S 11/27/2012 Regular sample	SCA-0059-04 SB915-MW-97S 11/27/2012 Regular sample	SCA-0059-05 SB915-MW-98S 11/27/2012 Regular sample	SCA-0060-08 SB915-MW-99S 11/28/2012 Regular sample	sca-0058-01 SB915-WB-02L 11/26/2012 Regular sample	SCA-0062-03 SB915-WB-04L 11/30/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	72.6	265	297	178	201	71.7	43
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	73.5	267	298	178	201	71.7	42.9
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	3.4U	3.4U	3.4U	3.4U	1.2J	5.0U	4.7J
BROMIDE	2(G)	mg/L	0.60J	0.31J	0.57	1.1	1.1J	[30.1]	[5.2]
CHEMICAL OXYGEN DEMAND	NC	mg/L	20U	20UJ	20UJ	15J	17.2J	2890	107
CHLORIDE	250(S)	mg/L	[498]	229	[488]	[1360]	[1050]	[46000]	[7520]
HARDNESS (AS CACO3)	NC	mg/L	438	400	656	1340	1750	47300	6370
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.20U	0.20U	0.14J	[5.5]	[6.4]	[16.2]	[21.3]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	0.26	0.25	0.28	4	6.3	15.9	19.9J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.11R	0.63J	1.2J	0.11R	0.11U	0.11R	0.11U
NITROGEN, NITRITE	1(S)	mg/L	0.010U	0.0038J	0.010U	0.010U	0.010U	0.010U	0.010U
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	0.0055J	0.63J	1.2J	0.10U	0.10U	0.10R	0.10U
SULFATE	250(S)	mg/L	152	88.8	133	54.3	85.3	[647]	56.3J
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	1110	751	1360	3050	2850	93000	14900
TOTAL ORGANIC CARBON	NC	mg/L	1.1J	2.2J	1.0U	1.8J	1.7J	1.2J	1.7J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.20UJ	0.20UJ	0.20UJ	0.20UJ	0.20UJ	0.2U	0.20U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

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Table 29
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Groundwater
Other Data

		Field Sample ID	SB915-0083-01
		Location	SB915-MW-111BR
	NYS	Sample Date	11/19/2012
	Class GA	Sample Purpose	Regular sample
Parameter Name	Criteria	Units	
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	16
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U
ALKALINITY, TOTAL	NC	mg/L	16J
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	6.0U
BROMIDE	2(G)	mg/L	[810]
CHEMICAL OXYGEN DEMAND	NC	mg/L	28000
CHLORIDE	250(S)	mg/L	[110000]
HARDNESS (AS CACO3)	NC	mg/L	68000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[160]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	170
NITROGEN, NITRATE (AS N)	10(S)	mg/L	NA
NITROGEN, NITRITE	1(S)	mg/L	NA
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	13U
SULFATE	250(S)	mg/L	[640]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	170000
TOTAL ORGANIC CARBON	NC	mg/L	1.0U
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.11]

NOTES:

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Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0070-01 SB915-MW-100S 3/7/2013 Regular sample	SCA-0072-01 SB915-MW-101S 3/8/2013 Regular sample	SCA-0073-08 SB915-MW-102S 3/8/2013 Regular sample	SCA-0078-01 SB915-MW-103S 3/13/2013 Regular sample	SCA-0069-04 SB915-MW-87BR 3/6/2013 Regular sample	SCA-0069-03 SB915-MW-87I 3/6/2013 Regular sample
1,1,1,2-TETRACHLOROETHANE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	5.0U	0.29J	1.0U	1U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	5.0UJ	1.0U	1.0U	1U	1.0UJ	1.0UJ
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	5.0U	0.44J	1.0U	1U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	10U	2.0U	2.0U	2U	2.0U	2.0U
1,2-DIBROMOETHANE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	[7.5J]	[18]	[5.8]	1U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	5.0U	[6.5]	1.0U	1U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	[8.9]	[4.6]	0.51J	1U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	[280]	[63]	[10]	0.21J	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	25U	5.0U	5.0U	5U	5.0U	5.0U
2-HEXANONE	50(G)	µg/L	25U	5.0U	5.0U	5U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	10U	2.0U	2.0U	2U	2.0U	2.0U
4-METHYL-2-PENTANONE	NC	µg/L	25U	5.0U	5.0U	5U	5.0U	5.0U
ACETONE	50(G)	µg/L	25U	5.6	5.0U	3.6J	5.0U	5.0U
ACETONITRILE	NC	µg/L	50U	10U	10U	10U	10U	10U
ACROLEIN	NC	µg/L	50UJ	10U	10U	10U	10U	10U
ACRYLONITRILE	5(S)	µg/L	50U	10U	10U	10U	10U	10U
ALLYL CHLORIDE	NC	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
BENZENE	1(S)	µg/L	[30]	[4.3]	1.0U	0.33J	1.0U	1.0U
BROMOCHLOROMETHANE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
BROMOMETHANE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0UJ	1.0UJ
CARBON DISULFIDE	60(G)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[570]	[120]	[21]	1U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U

NOTES:
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NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0070-01 SB915-MW-100S 3/7/2013 Regular sample	SCA-0072-01 SB915-MW-101S 3/8/2013 Regular sample	SCA-0073-08 SB915-MW-102S 3/8/2013 Regular sample	SCA-0078-01 SB915-MW-103S 3/13/2013 Regular sample	SCA-0069-04 SB915-MW-87BR 3/6/2013 Regular sample	SCA-0069-03 SB915-MW-87I 3/6/2013 Regular sample
CHLOROFORM	7(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	5.0U	1.1	1.0U	1U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
DIBROMOMETHANE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	5.0UJ	1.0U	1.0U	1U	1.0U	1.0U
ETHYL CYANIDE	NC	µg/L	25U	5.0U	5.0U	5U	5.0U	5.0U
ETHYL METHACRYLATE	NC	µg/L	10U	2.0U	2.0U	2U	2.0U	2.0U
ETHYLBENZENE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
IODOMETHANE	NC	µg/L	10U	2.0U	2.0U	2UJ	2.0U	2.0U
ISOBUTANOL	NC	µg/L	200R	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	10U	2.0U	2.0U	2U	2.0U	2.0U
METHYLENE CHLORIDE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
O-XYLENE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
STYRENE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
TOLUENE	5(S)	µg/L	5.0U	0.36J	1.0U	1U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	5.0U	0.98J	1.0U	1U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
TRICHLOROETHENE	5(S)	µg/L	5.0U	1.0U	0.22J	1U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	5.0U	1.0U	1.0U	1U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	10UJ	2.0U	2.0U	2U	2.0UJ	2.0UJ
VINYL CHLORIDE	2(S)	µg/L	5.0U	1.6	1.0U	1U	1.0U	1.0U
XYLENES, M & P	5(S)	µg/L	10U	2.0U	2.0U	2U	2.0U	2.0U

NOTES:
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NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0069-01 SB915-MW-87S 3/6/2013 Regular sample	SCA-0071-01 SB915-MW-88BR 3/7/2013 Regular sample	SCA-0070-04 SB915-MW-88D 3/7/2013 Regular sample	SCA-0070-03 SB915-MW-88I 3/7/2013 Regular sample	SCA-0070-02 SB915-MW-88S 3/7/2013 Regular sample	SCA-0072-02 SB915-MW-89BR 3/8/2013 Regular sample
1,1,1,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	[64]	1.1	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	0.92J	1.2	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U	1.0U	[54]	[18]	1.5	0.30J
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	1.9J	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	5.0U	5.0U	2.0J	1.8J	5.0U	5.0U
ACETONITRILE	NC	µg/L	10U	10U	10U	10U	10U	10U
ACROLEIN	NC	µg/L	10U	10UJ	10UJ	10UJ	10UJ	10U
ACRYLONITRILE	5(S)	µg/L	10U	10U	10U	10U	10U	10U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	1.0U	1.0U	[7.4]	[2.8]	0.39J	1.0U
BROMOCHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOMETHANE	5(S)	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U	1.0U
CARBON DISULFIDE	60(G)	µg/L	1.0U	0.24J	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	[40]	[68]	2.3	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0069-01 SB915-MW-87S 3/6/2013 Regular sample	SCA-0071-01 SB915-MW-88BR 3/7/2013 Regular sample	SCA-0070-04 SB915-MW-88D 3/7/2013 Regular sample	SCA-0070-03 SB915-MW-88I 3/7/2013 Regular sample	SCA-0070-02 SB915-MW-88S 3/7/2013 Regular sample	SCA-0072-02 SB915-MW-89BR 3/8/2013 Regular sample
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	0.30J	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0U
ETHYL CYANIDE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ETHYL METHACRYLATE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.59J	1.0U	1.0U
IODOMETHANE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
O-XYLENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.68J	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.46J	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	2.0UJ	2.0UJ	2.0UJ	2.0UJ	2.0UJ	2.0U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, M & P	5(S)	µg/L	2.0U	2.0U	2.0U	0.52J	2.0U	2.0U

NOTES:
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Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0072-03 SB915-MW-89D 3/8/2013 Regular sample µg/L	SCA-0072-04 SB915-MW-89I 3/8/2013 Regular sample	SCA-0072-05 SB915-MW-89S 3/8/2013 Regular sample	SCA-0073-06 SB915-MW-90BR 3/8/2013 Regular sample	SCA-0073-02 SB915-MW-90I 3/8/2013 Regular sample	SCA-0073-01 SB915-MW-90S 3/8/2013 Regular sample
1,1,1,2-TETRACHLOROETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	0.45J	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	0.60J
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	4.0U	4.0U	2.0U	2.0U	2.0U	2.0U
1,2-DIBROMOETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	[29]	[77]	1.0U	1.0U	[17]	[15]
1,2-DICHLOROETHANE	0.6(S)	µg/L	2.0U	2.0U	1.0U	1.0U	[6.0]	0.55J
1,2-DICHLOROPROPANE	1(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	2.0U	2.0U	1.0U	1.0U	[5.2]	1.3
1,3-DICHLOROPROPANE	NC	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	[16]	[70]	1.0U	1.0U	[76]	[26]
2,2-DICHLOROPROPANE	NC	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	10U	10U	5.0U	5.0U	5.0U	5.0U
2-HEXANONE	50(G)	µg/L	10U	10U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	4.0U	4.0U	2.0U	2.0U	2.0U	2.0U
4-METHYL-2-PENTANONE	NC	µg/L	10U	10U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	10U	10U	5.0U	5.0U	5.0U	5.0U
ACETONITRILE	NC	µg/L	20U	20U	10U	10U	10U	10U
ACROLEIN	NC	µg/L	20U	20U	10U	10U	10U	10U
ACRYLONITRILE	5(S)	µg/L	20U	20U	10U	10U	10U	10U
ALLYL CHLORIDE	NC	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	[5.5]	[5.0]	1.0U	1.0U	[3.6]	0.32J
BROMOCHLOROMETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
BROMOMETHANE	5(S)	µg/L	2.0U	2.0U	1.0UJ	1.0U	1.0U	1.0U
CARBON DISULFIDE	60(G)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[350]	[280]	1.0U	1.0U	[140]	[30]
CHLOROETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U

NOTES:
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NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0072-03 SB915-MW-89D 3/8/2013 Regular sample	SCA-0072-04 SB915-MW-89I 3/8/2013 Regular sample	SCA-0072-05 SB915-MW-89S 3/8/2013 Regular sample	SCA-0073-06 SB915-MW-90BR 3/8/2013 Regular sample	SCA-0073-02 SB915-MW-90I 3/8/2013 Regular sample	SCA-0073-01 SB915-MW-90S 3/8/2013 Regular sample
CHLOROFORM	7(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	0.80J	2.0U	1.0U	1.0U	1.4	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
ETHYL CYANIDE	NC	µg/L	10U	10U	5.0U	5.0U	5.0U	5.0U
ETHYL METHACRYLATE	NC	µg/L	4.0U	4.0U	2.0U	2.0U	2.0U	2.0U
ETHYLBENZENE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	4.0U	4.0U	2.0U	2.0U	2.0U	2.0U
ISOBUTANOL	NC	µg/L	80R	80R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	4.0U	4.0U	2.0U	2.0U	2.0U	2.0U
METHYLENE CHLORIDE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
O-XYLENE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	2.0U	0.90J	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	2.0U	2.0U	1.0U	1.0U	1.3	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROETHENE	5(S)	µg/L	0.98J	0.90J	1.0U	1.0U	1.0U	0.38J
TRICHLOROFLUOROMETHANE	5(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	4.0U	4.0U	2.0U	2.0U	2.0UJ	2.0U
VINYL CHLORIDE	2(S)	µg/L	2.0U	2.0U	1.0U	1.0U	1.5	1.0U
XYLENES, M & P	5(S)	µg/L	4.0U	4.0U	2.0U	2.0U	2.0U	2.0U

NOTES:
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NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0076-03 SB915-MW-91BR 3/12/2013 Regular sample	SCA-0075-02 SB915-MW-91D 3/11/2013 Regular sample	SCA-0076-04 SB915-MW-91I 3/12/2013 Regular sample	SCA-0077-02 SB915-MW-91SN 3/12/2013 Regular sample	SCA-0075-03 SB915-MW-91S 3/11/2013 Regular sample	SCA-0078-02 SB915-MW-92BR 3/13/2013 Regular sample
1,1,1,2-TETRACHLOROETHANE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,1-DICHLOROETHANE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,1-DICHLOROETHENE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,1-DICHLOROPROPENE	NC	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1U	1.0U	1U	1U	0.88J	1U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	2U	2.0U	2U	2U	2.0U	2U
1,2-DIBROMOETHANE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,2-DICHLOROBENZENE	3(S)	µg/L	1U	1.4	[3.8]	1U	[73]	1U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1U	[5.0]	[1.1]	1U	1.0U	1U
1,2-DICHLOROPROPANE	1(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,3-DICHLOROBENZENE	3(S)	µg/L	1U	1.0U	1U	1U	0.56J	1U
1,3-DICHLOROPROPANE	NC	µg/L	1U	1.0U	1U	1U	1.0U	1U
1,4-DICHLOROBENZENE	3(S)	µg/L	1U	0.96J	[3]	0.48J	[72]	1U
2,2-DICHLOROPROPANE	NC	µg/L	1U	1.0U	1U	1U	1.0U	1U
2-BUTANONE	50(G)	µg/L	1.2J	5.0U	5U	5UJ	7.7	5UJ
2-HEXANONE	50(G)	µg/L	5U	5.0U	5U	5UJ	5.0U	5UJ
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	2U	2.0U	2U	2U	2.0U	2U
4-METHYL-2-PENTANONE	NC	µg/L	5U	5.0U	5U	5UJ	1.7J	5UJ
ACETONE	50(G)	µg/L	6.1	5.0U	5U	3.2J	[130]	4.1J
ACETONITRILE	NC	µg/L	10U	10U	10U	10UJ	10U	10UJ
ACROLEIN	NC	µg/L	10U	10U	10U	10U	10U	10U
ACRYLONITRILE	5(S)	µg/L	10U	10U	10U	10UJ	10U	10UJ
ALLYL CHLORIDE	NC	µg/L	1U	1.0U	1U	1U	1.0U	1U
BENZENE	1(S)	µg/L	1U	0.64J	0.28J	[2.2]	[170]	1U
BROMOCHLOROMETHANE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
BROMODICHLOROMETHANE	50(G)	µg/L	1U	1.0U	1U	1U	1.0U	1U
BROMOFORM	50(G)	µg/L	1U	1.0U	1U	1U	1.0U	1U
BROMOMETHANE	5(S)	µg/L	1U	1.0U	1U	1UJ	1.0UJ	1UJ
CARBON DISULFIDE	60(G)	µg/L	1U	1.0U	1U	0.82J	1.0U	0.31J
CARBON TETRACHLORIDE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
CHLOROBENZENE	5(S)	µg/L	1U	[22]	[36]	1.5	[150]	1U
CHLOROETHANE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0076-03 SB915-MW-91BR 3/12/2013 Regular sample	SCA-0075-02 SB915-MW-91D 3/11/2013 Regular sample	SCA-0076-04 SB915-MW-91I 3/12/2013 Regular sample	SCA-0077-02 SB915-MW-91SN 3/12/2013 Regular sample	SCA-0075-03 SB915-MW-91S 3/11/2013 Regular sample	SCA-0078-02 SB915-MW-92BR 3/13/2013 Regular sample
CHLOROFORM	7(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
CHLOROMETHANE	5(S)	µg/L	0.6J	1.0U	1U	1U	1.0U	0.26J
CHLOROPRENE	NC	µg/L	1U	1.0U	1U	1U	1.0U	1U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1U	1.0U	1U	1U	1.0U	1U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
Dibromochloromethane	50(G)	µg/L	1U	1.0U	1U	1UJ	1.0U	1U
DIBROMOMETHANE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1UJ
ETHYL CYANIDE	NC	µg/L	5U	5.0U	5U	5UJ	5.0U	5UJ
ETHYL METHACRYLATE	NC	µg/L	2U	2.0U	2U	2U	2.0U	2U
ETHYLBENZENE	5(S)	µg/L	1U	1.0U	1U	1U	0.72J	1U
IODOMETHANE	NC	µg/L	2UJ	2.0U	2U	2UJ	2.0U	2UJ
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	2U	2.0U	2U	2U	2.0U	2U
METHYLENE CHLORIDE	5(S)	µg/L	1U	1.0U	1U	1U	0.43J	1U
O-XYLENE	5(S)	µg/L	1U	1.0U	1U	1U	4.2	1U
STYRENE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
TETRACHLOROETHENE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
TOLUENE	5(S)	µg/L	0.24J	1.0U	1U	0.32J	[41]	1U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1U	1.0U	1U	1U	1.0U	1U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
TRANS-1,4-DICHLORO-2-BUTENE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
TRICHLOROETHENE	5(S)	µg/L	1U	0.32J	1U	1U	1.0U	1U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
VINYL ACETATE	NC	µg/L	2U	2.0UJ	2U	2U	2.0U	2U
VINYL CHLORIDE	2(S)	µg/L	1U	1.0U	1U	1U	1.0U	1U
XYLENES, M & P	5(S)	µg/L	2U	2.0U	2U	2U	[7.9]	2U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
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Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0076-02 SB915-MW-92D 3/12/2013 Regular sample	SCA-0076-01 SB915-MW-92I 3/12/2013 Regular sample	SCA-0077-01 SB915-MW-92S 3/12/2013 Regular sample	SCA-0075-01 SB915-MW-93BR 3/11/2013 Regular sample	SCA-0074-03 SB915-MW-93D 3/11/2013 Regular sample	SCA-0074-04 SB915-MW-93I 3/11/2013 Regular sample
1,1,1,2-TETRACHLOROETHANE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1U	0.24J	0.41J	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	2U	2U	2U	2.0U	2.0U	2.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1U	[6]	[160]	1.0U	[11]	[10]
1,2-DICHLOROETHANE	0.6(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1U	1U	1.9	1.0U	0.41J	0.40J
1,3-DICHLOROPROPANE	NC	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1U	[3.3]	[81]	1.0U	[17]	[16]
2,2-DICHLOROPROPANE	NC	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	5U	3.3J	38	5.0U	5.0U	5.0U
2-HEXANONE	50(G)	µg/L	5U	5UJ	5U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	2U	2U	2U	2.0U	2.0U	2.0U
4-METHYL-2-PENTANONE	NC	µg/L	5U	5U	2.9J	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	5U	40	[430]	2.6J	5.0U	5.0U
ACETONITRILE	NC	µg/L	10U	10UJ	10U	10U	10U	10U
ACROLEIN	NC	µg/L	10U	10U	10U	10U	10U	10U
ACRYLONITRILE	5(S)	µg/L	10U	10UJ	10U	10U	10U	10U
ALLYL CHLORIDE	NC	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	1U	[11]	[92]	1.0U	1.0U	1.0U
BROMOCHLOROMETHANE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
BROMOMETHANE	5(S)	µg/L	1U	1UJ	1U	1.0U	1.0U	1.0U
CARBON DISULFIDE	60(G)	µg/L	1U	0.44J	0.45J	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1U	[13]	[340]	1.0U	[21]	[19]
CHLOROETHANE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0076-02 SB915-MW-92D 3/12/2013 Regular sample	SCA-0076-01 SB915-MW-92I 3/12/2013 Regular sample	SCA-0077-01 SB915-MW-92S 3/12/2013 Regular sample	SCA-0075-01 SB915-MW-93BR 3/11/2013 Regular sample	SCA-0074-03 SB915-MW-93D 3/11/2013 Regular sample	SCA-0074-04 SB915-MW-93I 3/11/2013 Regular sample
CHLOROFORM	7(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1U	1U	0.32J	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
DIBROMOMETHANE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1U	1UJ	1U	1.0U	1.0U	1.0U
ETHYL CYANIDE	NC	µg/L	5U	5UJ	5U	5.0U	5.0U	5.0U
ETHYL METHACRYLATE	NC	µg/L	2U	2U	2U	2.0U	2.0U	2.0U
ETHYLBENZENE	5(S)	µg/L	1U	1U	0.72J	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	2UJ	2UJ	2UJ	2.0U	2.0U	2.0U
ISOBUTANOL	NC	µg/L	40R	40U	26J	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	2U	2U	2U	2.0U	2.0U	2.0U
METHYLENE CHLORIDE	5(S)	µg/L	1U	1UJ	0.43J	1.0U	1.0U	1.0U
O-XYLENE	5(S)	µg/L	1U	0.58J	[5.7]	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1U	2.4	[27]	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
TRICHLOROETHENE	5(S)	µg/L	1U	1U	1U	1.0U	0.23J	0.26J
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	2U	2U	2U	2.0UJ	2.0UJ	2.0UJ
VINYL CHLORIDE	2(S)	µg/L	1U	1U	1U	1.0U	1.0U	1.0U
XYLENES, M & P	5(S)	µg/L	2U	1.1J	[13]	2.0U	2.0U	2.0U

NOTES:
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Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0074-02 SB915-MW-93S 3/11/2013 Regular sample	SCA-0068-03 SB915-MW-94S 3/6/2013 Regular sample	SCA-0068-02 SB915-MW-95S 3/6/2013 Regular sample	SCA-0068-01 SB915-MW-96S 3/6/2013 Regular sample	SCA-0071-02 SB915-MW-97S 3/7/2013 Regular sample	SCA-0071-03 SB915-MW-98S 3/7/2013 Regular sample
1,1,1,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	[6.7]	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	0.35J	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	[11]	1.0U	1.0U	1.0U	1.0U	0.26J
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONITRILE	NC	µg/L	10U	10U	10U	10U	10U	10U
ACROLEIN	NC	µg/L	10U	10U	10U	10U	10UJ	10UJ
ACRYLONITRILE	5(S)	µg/L	10U	10U	10U	10U	10U	10U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOCHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOMETHANE	5(S)	µg/L	1.0U	1.0UJ	1.0UJ	1.0UJ	1.0U	1.0U
CARBON DISULFIDE	60(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[7.8]	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0074-02 SB915-MW-93S 3/11/2013 Regular sample	SCA-0068-03 SB915-MW-94S 3/6/2013 Regular sample	SCA-0068-02 SB915-MW-95S 3/6/2013 Regular sample	SCA-0068-01 SB915-MW-96S 3/6/2013 Regular sample	SCA-0071-02 SB915-MW-97S 3/7/2013 Regular sample	SCA-0071-03 SB915-MW-98S 3/7/2013 Regular sample
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0UJ	1.0UJ
ETHYL CYANIDE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ETHYL METHACRYLATE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
O-XYLENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROETHENE	5(S)	µg/L	0.23J	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	2.0UJ	2.0UJ	2.0UJ	2.0UJ	2.0UJ	2.0UJ
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, M & P	5(S)	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U

NOTES:
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Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0071-04 SB915-MW-99S 3/7/2013 Regular sample	SCA-0070-05 SB915-WB-02L 3/7/2013 Regular sample	SCA-0073-05 SB915-WB-04L 3/8/2013 Regular sample
1,1,1,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	[7.2]
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	2.3J
1,1-DICHLOROPROPENE	NC	µg/L	1.0UJ	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	2.0U	2.0U	2.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	[11]	1.0U	0.25J
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	1.0U	[8.0]
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.3	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	[61]	1.0U	0.44J
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	5.0U	0.92J	5.0U
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	2.0U	2.0U	2.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U
ACETONE	50(G)	µg/L	5.0U	8.2	5.0U
ACETONITRILE	NC	µg/L	10U	10U	10U
ACROLEIN	NC	µg/L	10UJ	10U	10U
ACRYLONITRILE	5(S)	µg/L	10U	10U	10U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	[1.1]	1.0U	[13]
BROMOCHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0U	1.0U	1.0U
BROMOMETHANE	5(S)	µg/L	1.0U	1.0UJ	1.0U
CARBON DISULFIDE	60(G)	µg/L	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[82]	1.0U	3.8
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U

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Table 30
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0071-04 SB915-MW-99S 3/7/2013 Regular sample	SCA-0070-05 SB915-WB-02L 3/7/2013 Regular sample	SCA-0073-05 SB915-WB-04L 3/8/2013 Regular sample
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	[21]
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U
DIBROMOMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0UJ	1.0U	1.0U
ETHYL CYANIDE	NC	µg/L	5.0U	5.0U	5.0U
ETHYL METHACRYLATE	NC	µg/L	2.0U	2.0U	2.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	2.0U	2.0U	2.0U
ISOBUTANOL	NC	µg/L	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	2.0U	2.0U	2.0U
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U
O-XYLENE	5(S)	µg/L	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	1.0U	0.22J	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.2
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	5(S)	µg/L	1.0U	1.0U	1.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	2.0UJ	2.0UJ	2.0U
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U
XYLENES, M & P	5(S)	µg/L	2.0U	2.0U	2.0U

NOTES:
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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0093-07 SB915-IMW-01S 2/13/2013 Regular sample	SB915-0096-05 SB915-IMW-02S 2/18/2013 Regular sample	SB915-0096-02 SB915-IMW-03S 2/18/2013 Regular sample	SB915-0096-01 SB915-IMW-04S 2/18/2013 Regular sample	SB915-0093-06 SB915-IMW-05S 2/13/2013 Regular sample	SB915-0093-04 SB915-IMW-06S 2/13/2013 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	4600	8200	8800	1100	3200	3300
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[11]	[7.3]	[200]	[9.2]	1U	1U
LEAD	0.025(S)	mg/L	0.03U	0.15U	0.15U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[110]	[69]	[110]	50U	50U	50U
MANGANESE	0.3(S)	mg/L	[5.4]	[16]	[19]	[4.6]	0.15U	0.15U
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	67	100	150	55	130	140
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[3000]	[5700]	[6100]	[610]	[1600]	[2300]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA

NOTES:
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NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0088-04 SB915-MW-01 2/7/2013 Regular sample	SB915-0088-08 SB915-MW-03 2/7/2013 Regular sample	SB915-0086-08 SB915-MW-04 2/5/2013 Regular sample	SCA-0070-01 SB915-MW-100S 3/7/2013 Regular sample	SCA-0072-01 SB915-MW-101S 3/8/2013 Regular sample	SCA-0073-08 SB915-MW-102S 3/8/2013 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	0.0392U	0.0784U	0.0078U
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	0.0011U	0.06U	0.0011U
ARSENIC	0.025(S)	mg/L	NA	NA	NA	0.0015U	0.0015U	0.0015U
BARIUM	1(S)	mg/L	NA	NA	NA	[2.01]	[1.04]	0.0511
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	0.000153U	0.000153U	0.000153U
BORON	1(S)	mg/L	NA	NA	NA	0.0462UJ	0.0462U	0.0462U
CADMIUM	0.005(S)	mg/L	0.5U	0.5U	0.05U	0.000168U	0.000168U	0.000168U
CALCIUM	NC	mg/L	500U	1300	4200	1450	1170	506
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	0.000884U	0.000884U	0.000884U
COBALT	NC	mg/L	NA	NA	NA	0.05U	0.000217U	0.05U
COPPER	0.2(S)	mg/L	NA	NA	NA	0.02U	0.02U	0.02U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	0.010U	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	0.010R	0.010U	0.010U
IRON	0.3(S)	mg/L	10U	10U	[47]	[0.624]	[0.595]	[3.2]
LEAD	0.025(S)	mg/L	0.3U	0.3U	0.03U	0.000625U	0.000625U	0.000625U
MAGNESIUM	35(G)	mg/L	500U	500U	[290]	[212]	[119]	31.5
MANGANESE	0.3(S)	mg/L	1.5U	1.5U	[20]	0.0721	[0.435]	[0.547]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	1e-006U	5e-007U	7.24e-007J
NICKEL	0.1(S)	mg/L	NA	NA	NA	0.0021U	0.0021U	0.0021U
POTASSIUM	NC	mg/L	500U	500U	50U	94.8	61.1	21.6
SELENIUM	0.01(S)	mg/L	NA	NA	NA	[0.0106]	0.0077J	0.0038U
SILVER	0.05(S)	mg/L	NA	NA	NA	0.0049J	0.01U	0.01U
SODIUM	20(S)	mg/L	500U	[1900]	[3900]	[1150]	[886]	[358]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	0.0014U	0.0014U	0.0014U
TIN	NC	mg/L	NA	NA	NA	0.0138U	0.0138U	0.0138U
VANADIUM	NC	mg/L	NA	NA	NA	0.05U	0.05U	0.000283U
ZINC	2(G)	mg/L	NA	NA	NA	0.0011U	0.0011U	0.0011U

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0078-01 SB915-MW-103S 3/13/2013 Regular sample	SB915-0097-01 SB915-MW-104I 2/19/2013 Regular sample	SB915-0093-05 SB915-MW-104S 2/13/2013 Regular sample	SB915-0097-03 SB915-MW-105BF 2/19/2013 Regular sample	SB915-0086-04 SB915-MW-106I 2/5/2013 Regular sample	SB915-0086-01 SB915-MW-106S 2/5/2013 Regular sample
ALUMINUM	NC	mg/L	0.0078U	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	0.0011U	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	0.0015U	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	0.206	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	0.000153U	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	0.0462U	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.000168U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	385	150	17000	170	4100	65
CHROMIUM	0.05(S)	mg/L	0.0012J	NA	NA	NA	NA	NA
COBALT	NC	mg/L	0.000217U	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	0.02U	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	0.01U	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.01U	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	0.1U	1U	[23]	1U	[14]	1U
LEAD	0.025(S)	mg/L	0.000625U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	28.6	50U	[540]	50U	[300]	50U
MANGANESE	0.3(S)	mg/L	0.01U	0.15U	[10]	0.15U	[2.7]	0.15U
MERCURY	0.0007(S)	mg/L	4.40E-06	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	0.0021U	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	14.2	50U	50U	50U	50U	50U
SELENIUM	0.01(S)	mg/L	0.0074J	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	0.0015J	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[351]	[57]	[13000]	[100]	[3500]	50U
THALLIUM	0.0005(G)	mg/L	0.0014U	NA	NA	NA	NA	NA
TIN	NC	mg/L	0.0138U	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.000283U	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	0.0032J	NA	NA	NA	NA	NA

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0087-02 SB915-MW-107BF 2/6/2013 Regular sample	SB915-0087-04 SB915-MW-107D 2/6/2013 Regular sample	SB915-0087-03 SB915-MW-107I 2/6/2013 Regular sample	SB915-0087-01 SB915-MW-107S 2/6/2013 Regular sample	SB915-0091-11 SB915-MW-108BF 2/11/2013 Regular sample	SB915-0091-10 SB915-MW-108D 2/11/2013 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	2600	11000	1400	8400	550J	140J
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[16]	[15]	[4.8]	[10]	[2.4J]	1U
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[480]	[400]	[68]	[620]	[55]	50U
MANGANESE	0.3(S)	mg/L	[3.1]	[4.5]	[0.75]	[20]	0.28J	0.15U
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	670	350	50U	50U	50U	50U
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[71000]	[31000]	[990]	[5800]	[100J]	[55J]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA

NOTES:
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NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0092-05 SB915-MW-109I 2/12/2013 Regular sample	SB915-0092-04 SB915-MW-109S 2/12/2013 Regular sample	SB915-0094-05 SB915-MW-110S 2/14/2013 Regular sample	SB915-0090-04 SB915-MW-111BF 2/8/2013 Regular sample	SB915-0090-03 SB915-MW-111D 2/8/2013 Regular sample	SB915-0090-02 SB915-MW-111I 2/8/2013 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.5U	0.5U	0.05U	0.25U	0.05U	0.05U
CALCIUM	NC	mg/L	5300	5100	510	17000J	16000J	12000J
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	10U	10U	[21]	[94J]	[65J]	[71J]
LEAD	0.025(S)	mg/L	0.3U	0.3U	0.03U	0.3U	0.15U	0.15U
MAGNESIUM	35(G)	mg/L	500U	500U	50U	[3300]	[110]	[200]
MANGANESE	0.3(S)	mg/L	1.5U	1.5U	[3.2]	[23J]	[5.6J]	[5J]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	500U	500U	50U	3200J	180J	140J
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[3300]	[2900]	[280]	[31000J]	[13000J]	[8400J]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA

NOTES:
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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0090-01 SB915-MW-111S 2/8/2013 Regular sample	SB915-0094-04 SB915-MW-112I 2/14/2013 Regular sample	SB915-0094-03 SB915-MW-112S 2/14/2013 Regular sample	SB915-0094-01 SB915-MW-113S 2/14/2013 Regular sample	SB915-0086-06 SB915-MW-115BF 2/5/2013 Regular sample	SB915-0086-05 SB915-MW-116S 2/5/2013 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	4000J	12000	1600	3500	3800	150
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[130J]	[50]	[29]	[18]	[9.5]	1U
LEAD	0.025(S)	mg/L	0.03U	0.15U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[86]	[75]	50U	[78]	[270]	50U
MANGANESE	0.3(S)	mg/L	[4.7J]	[16]	[3.4]	[1.2]	[1.6]	0.19
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	50U	140	88	68	110	50U
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[2600J]	[8300]	[850]	[2600]	[6500]	[73]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0086-09 SB915-MW-117S 2/5/2013 Regular sample mg/L	SB915-0085-02 SB915-MW-118BF 2/4/2013 Regular sample mg/L	SB915-0085-01 SB915-MW-118S 2/4/2013 Regular sample mg/L	SB915-0088-07 SB915-MW-36D 2/7/2013 Regular sample mg/L	SB915-0088-06 SB915-MW-36I 2/7/2013 Regular sample mg/L	SB915-0088-05 SB915-MW-36S 2/7/2013 Regular sample mg/L
ALUMINUM	NC		NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)		NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)		NA	NA	NA	NA	NA	NA
BARIUM	1(S)		NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)		NA	NA	NA	NA	NA	NA
BORON	1(S)		NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)		0.05U	0.05U	0.05U	0.5U	0.5U	0.5U
CALCIUM	NC		1600	1300	450	560	510	540
CHROMIUM	0.05(S)		NA	NA	NA	NA	NA	NA
COBALT	NC		NA	NA	NA	NA	NA	NA
COPPER	0.2(S)		NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)		NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)		NA	NA	NA	NA	NA	NA
IRON	0.3(S)		[15]	[6.7]	1U	10U	10U	10U
LEAD	0.025(S)		0.03U	0.03U	0.03U	0.3U	0.3U	0.3U
MAGNESIUM	35(G)		[220]	50U	[59]	500U	500U	500U
MANGANESE	0.3(S)		[2.6]	[0.46]	0.2	1.5U	1.5U	1.5U
MERCURY	0.0007(S)		NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)		NA	NA	NA	NA	NA	NA
POTASSIUM	NC		50U	50U	50U	500U	500U	500U
SELENIUM	0.01(S)		NA	NA	NA	NA	NA	NA
SILVER	0.05(S)		NA	NA	NA	NA	NA	NA
SODIUM	20(S)		[1700]	[1100]	[420]	500U	500U	500U
THALLIUM	0.0005(G)		NA	NA	NA	NA	NA	NA
TIN	NC		NA	NA	NA	NA	NA	NA
VANADIUM	NC		NA	NA	NA	NA	NA	NA
ZINC	2(G)		NA	NA	NA	NA	NA	NA

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0097-04 SB915-MW-42D 2/19/2013 Regular sample	SB915-0098-04 SB915-MW-42I 2/20/2013 Regular sample	SB915-0092-02 SB915-MW-53D 2/12/2013 Regular sample	SB915-0092-01 SB915-MW-53I 2/12/2013 Regular sample	SB915-0091-07 SB915-MW-59S 2/11/2013 Regular sample	SB915-0098-03 SB915-MW-60S 2/20/2013 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.5U	0.5U	0.05U	0.05U
CALCIUM	NC	mg/L	16000	17000	500U	19000	2700J	2000
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[110]	1U	10U	10U	[12J]	[40]
LEAD	0.025(S)	mg/L	0.15U	0.15U	0.3U	0.3U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[180]	50U	500U	500U	[200]	[58]
MANGANESE	0.3(S)	mg/L	[3.8]	0.15U	1.5U	1.5U	[0.65J]	[1.8]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	180	400	500U	500U	96J	57
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[11000]	[12000]	500U	[13000]	[2100J]	[1300]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0091-09 SB915-MW-70D 2/11/2013 Regular sample	SB915-0091-08 SB915-MW-70S 2/11/2013 Regular sample	SB915-0098-02 SB915-MW-85D 2/20/2013 Regular sample	SCA-0069-04 SB915-MW-87BR 3/6/2013 Regular sample	SCA-0069-03 SB915-MW-87I 3/6/2013 Regular sample	SCA-0069-01 SB915-MW-87S 3/6/2013 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	0.157UN	0.405	0.1U
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	0.6U	0.0011U	0.0011U
ARSENIC	0.025(S)	mg/L	NA	NA	NA	0.0147U	0.0015U	0.0015U
BARIUM	1(S)	mg/L	NA	NA	NA	0.2U	0.02U	0.0739
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	0.0015U	0.000153U	0.000153U
BORON	1(S)	mg/L	NA	NA	NA	0.462UN	0.0462UJ	0.0462UJ
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.1U	0.0017UN	0.000168U	0.000168U
CALCIUM	NC	mg/L	12000J	3000J	19000	9670	353	104
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	0.0088U	0.0065J	0.0043J
COBALT	NC	mg/L	NA	NA	NA	0.5U	0.05U	0.000217U
COPPER	0.2(S)	mg/L	NA	NA	NA	0.2U	0.02U	0.02U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	0.038J	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	0.010R	0.010R	0.010U
IRON	0.3(S)	mg/L	[69J]	[25J]	[110]	[4.01]	[1.47]	0.1U
LEAD	0.025(S)	mg/L	0.15U	0.03U	0.15U	0.0063U	0.005U	0.000625U
MAGNESIUM	35(G)	mg/L	[170]	[97]	[150]	[821]	[64.1]	20.5
MANGANESE	0.3(S)	mg/L	[2.3J]	[0.62J]	[3.8]	[6.12]	0.112	0.01U
MERCURY	0.0007(S)	mg/L	NA	NA	NA	1.00E-06	1.40E-06	2.40E-06
NICKEL	0.1(S)	mg/L	NA	NA	NA	0.0207U	0.0033J	0.0021U
POTASSIUM	NC	mg/L	150J	83J	220	495	14.1	5.48
SELENIUM	0.01(S)	mg/L	NA	NA	NA	[0.0554J]	0.0082J	0.0053J
SILVER	0.05(S)	mg/L	NA	NA	NA	0.1U	0.0019J	0.00054U
SODIUM	20(S)	mg/L	[8400J]	[1900J]	[13000]	[9990]	[439]	[42.4]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	0.0137U	0.0014U	0.0014U
TIN	NC	mg/L	NA	NA	NA	0.138U	0.0138U	0.0138U
VANADIUM	NC	mg/L	NA	NA	NA	0.5U	0.05U	0.05U
ZINC	2(G)	mg/L	NA	NA	NA	0.0813J	0.0034J	0.0033J

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0071-01 SB915-MW-88BR 3/7/2013 Regular sample	SCA-0070-04 SB915-MW-88D 3/7/2013 Regular sample	SCA-0070-03 SB915-MW-88I 3/7/2013 Regular sample	SCA-0070-02 SB915-MW-88S 3/7/2013 Regular sample	SCA-0072-02 SB915-MW-89BR 3/8/2013 Regular sample	SCA-0072-03 SB915-MW-89D 3/8/2013 Regular sample
ALUMINUM	NC	mg/L	1.57U	0.0784U	0.328	0.247	0.784U	0.0784U
ANTIMONY	0.003(S)	mg/L	0.011U	0.0011U	0.0011U	0.06U	0.011U	0.0011U
ARSENIC	0.025(S)	mg/L	0.0147U	0.0156	0.01U	0.01U	0.0147U	0.0015U
BARIUM	1(S)	mg/L	0.0038U	[2.05]	[5.01]	0.131	0.0038U	[1.91]
BERYLLIUM	0.003(G)	mg/L	0.0015U	0.000153U	0.000153U	0.000153U	0.0015U	0.000153U
BORON	1(S)	mg/L	[1.33J]	0.462UJ	0.0462UJ	0.0462UJ	[4.62]	0.0462U
CADMIUM	0.005(S)	mg/L	0.0017U	0.0017UN	0.000168UN	0.000168U	0.05U	0.000168U
CALCIUM	NC	mg/L	7950	3220	1050	187	7180	1880
CHROMIUM	0.05(S)	mg/L	0.0088U	0.000884U	0.0023J	0.003J	0.0088U	0.003J
COBALT	NC	mg/L	0.5U	0.05U	0.000217U	0.05U	0.0022U	0.05U
COPPER	0.2(S)	mg/L	0.2U	0.02U	0.02U	0.02U	0.2U	0.02U
CYANIDE	0.2(S)	mg/L	0.035J	0.041J	0.010U	0.010U	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.010R	0.010R	0.010R	0.010R	0.010U	0.010U
IRON	0.3(S)	mg/L	[9.26]	[14.3]	[8.68]	[1.29]	[24.5]	[0.613]
LEAD	0.025(S)	mg/L	0.0063U	0.000625U	0.000625U	0.000625U	0.0063U	0.0023J
MAGNESIUM	35(G)	mg/L	[603]	[166]	[80.3]	19.6	[1280]	[137]
MANGANESE	0.3(S)	mg/L	[5.53]	[1.63]	[1.49]	0.246	[7.8]	[7.89]
MERCURY	0.0007(S)	mg/L	3.10E-06	8.94e-007J	2.20E-06	1.10E-06	5e-007U	2.90E-06
NICKEL	0.1(S)	mg/L	0.0207U	0.0031J	0.0052J	0.0185J	0.0207U	0.0053J
POTASSIUM	NC	mg/L	443	153	50.9	15	987	91.2
SELENIUM	0.01(S)	mg/L	[0.0661J]	[0.0117]	0.0083J	0.0076J	[0.0556J]	[0.0123]
SILVER	0.05(S)	mg/L	0.1U	0.0074J	0.0042J	0.000861J	0.1U	0.01U
SODIUM	20(S)	mg/L	[7140]	[1680]	[639]	[125]	[11500]	[968]
THALLIUM	0.0005(G)	mg/L	0.0137U	0.0014U	0.0014U	0.0014U	0.0137U	0.0137U
TIN	NC	mg/L	0.138U	0.0138U	0.0138U	0.0138U	0.138U	0.0138U
VANADIUM	NC	mg/L	0.5U	0.05U	0.05U	0.05U	0.5U	0.000283U
ZINC	2(G)	mg/L	0.0242J	0.0011U	0.0025J	0.0031J	0.0134J	0.0018J

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0072-04 SB915-MW-89I 3/8/2013 Regular sample	SCA-0072-05 SB915-MW-89S 3/8/2013 Regular sample	SCA-0073-06 SB915-MW-90BR 3/8/2013 Regular sample	SCA-0073-02 SB915-MW-90I 3/8/2013 Regular sample	SCA-0073-01 SB915-MW-90S 3/8/2013 Regular sample	SCA-0076-03 SB915-MW-91BR 3/12/2013 Regular sample
ALUMINUM	NC	mg/L	0.242	0.842	0.0784U	0.0784U	0.361	0.0784U
ANTIMONY	0.003(S)	mg/L	0.0011U	0.0011U	0.011U	0.0011U	0.0011U	0.011U
ARSENIC	0.025(S)	mg/L	0.0015U	0.0015U	0.0147U	0.0015U	0.0015U	0.0147U
BARIUM	1(S)	mg/L	0.172	0.0704	0.0038U	0.132	0.0799	0.0038U
BERYLLIUM	0.003(G)	mg/L	0.000153U	0.000153U	0.0015U	0.000153U	0.000153U	0.0015U
BORON	1(S)	mg/L	0.2U	0.0462U	[1.07J]	0.0462U	0.0462U	2U
CADMIUM	0.005(S)	mg/L	0.005U	0.000168U	0.0017U	0.000168U	0.000168U	0.0017U
CALCIUM	NC	mg/L	985	286	4750	994	612	3580
CHROMIUM	0.05(S)	mg/L	0.0026J	0.0073J	0.0088U	0.000884U	0.0044J	0.0088U
COBALT	NC	mg/L	0.05U	0.05U	0.0022U	0.05U	0.05U	0.0022U
COPPER	0.2(S)	mg/L	0.02U	0.02U	0.2U	0.02U	0.02U	0.2U
CYANIDE	0.2(S)	mg/L	0.010U	0.010U	0.010U	0.010U	0.010U	0.01U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.010U	0.010U	0.010U	0.010U	0.010U	0.01U
IRON	0.3(S)	mg/L	[0.689]	[1.08]	[10]	[2.04]	[2.52]	[1.78]
LEAD	0.025(S)	mg/L	0.000794J	0.000625U	0.0063U	0.000896J	0.0014J	0.05U
MAGNESIUM	35(G)	mg/L	[119]	[37.9]	[911]	[76.1]	[47.9]	[578]
MANGANESE	0.3(S)	mg/L	[4.02]	[0.803]	[5.88]	[1.05]	[1.28]	[2.93]
MERCURY	0.0007(S)	mg/L	1.00E-06	1.40E-06	6.4e-007J	5e-007U	1.20E-06	2.40E-06
NICKEL	0.1(S)	mg/L	0.0036J	0.0062J	0.0207U	0.0021U	0.0034J	0.0207U
POTASSIUM	NC	mg/L	57.9	14.4	343	51.4	26	687
SELENIUM	0.01(S)	mg/L	0.0086J	0.0038U	[0.0758J]	0.0073J	0.0057J	[0.0463J]
SILVER	0.05(S)	mg/L	0.01U	0.01U	0.1U	0.01U	0.01U	0.1U
SODIUM	20(S)	mg/L	[662]	[148]	[7780]	[810]	[437]	[44400]
THALLIUM	0.0005(G)	mg/L	0.0014U	0.0014U	0.0137U	0.0014U	0.0014U	0.1U
TIN	NC	mg/L	0.0138U	0.0138U	0.138U	0.0138U	0.0138U	5U
VANADIUM	NC	mg/L	0.05U	0.05U	0.5U	0.000283U	0.05U	0.5U
ZINC	2(G)	mg/L	0.0049J	0.002J	0.0109U	0.003J	0.0043J	0.0172J

NOTES:
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NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0075-02 SB915-MW-91D 3/11/2013 Regular sample	SCA-0076-04 SB915-MW-91I 3/12/2013 Regular sample	SCA-0077-02 SB915-MW-91SN 3/12/2013 Regular sample	SCA-0075-03 SB915-MW-91S 3/11/2013 Regular sample	SCA-0078-02 SB915-MW-92BR 3/13/2013 Regular sample	SCA-0076-02 SB915-MW-92D 3/12/2013 Regular sample
ALUMINUM	NC	mg/L	0.163	0.1U	0.0392U	0.0784U	0.0784U	0.0078U
ANTIMONY	0.003(S)	mg/L	0.0011U	0.0011U	0.0011U	0.011U	0.011U	0.0011U
ARSENIC	0.025(S)	mg/L	0.0015U	0.0015U	0.0015U	0.0147U	0.0147U	0.0015U
BARIUM	1(S)	mg/L	0.0553	0.0328	0.351	[2.24]	0.0038U	0.0548
BERYLLIUM	0.003(G)	mg/L	0.000153U	0.000153U	0.000153U	0.0015U	0.0015U	0.000153U
BORON	1(S)	mg/L	0.0462U	0.0462U	0.0462U	0.462U	2U	0.0462U
CADMIUM	0.005(S)	mg/L	0.000168U	0.000168U	0.000168U	0.0017U	0.0017U	0.000168U
CALCIUM	NC	mg/L	745	665	1260	7290	3190	349
CHROMIUM	0.05(S)	mg/L	0.0065J	0.0026J	0.0049J	0.0088U	0.0137J	0.002J
COBALT	NC	mg/L	0.05U	0.0013J	0.000217U	0.0022U	0.0022U	0.000217U
COPPER	0.2(S)	mg/L	0.02U	0.02U	0.02U	0.2U	0.2U	0.02U
CYANIDE	0.2(S)	mg/L	0.010U	0.01U	0.005J	0.010U	0.01U	0.01U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.010U	0.01U	0.01U	0.010U	0.01U	0.01U
IRON	0.3(S)	mg/L	[1.38]	[2.09]	[0.316]	1U	[4.97]	0.1U
LEAD	0.025(S)	mg/L	0.000752J	0.000625U	0.000625U	0.0063U	0.05U	0.000625U
MAGNESIUM	35(G)	mg/L	[53.3]	[55.5]	[36.5]	10U	[588]	[42.4]
MANGANESE	0.3(S)	mg/L	[0.481]	[0.854]	[0.516]	0.1U	[3.65]	0.262
MERCURY	0.0007(S)	mg/L	5e-007U	5.30E-06	9.10E-06	0.000277	4.70E-06	2.60E-06
NICKEL	0.1(S)	mg/L	0.005J	0.0021U	0.0046J	0.0207U	0.0207U	0.0021U
POTASSIUM	NC	mg/L	28.2	30.4	44.6	295	600	8.99
SELENIUM	0.01(S)	mg/L	0.0039J	0.0073J	0.0096J	[0.067J]	0.0377U	0.005J
SILVER	0.05(S)	mg/L	0.01U	0.0021J	0.0035J	0.1U	0.1U	0.001J
SODIUM	20(S)	mg/L	[590]	[570]	[768]	[3210]	[7200]	[221]
THALLIUM	0.0005(G)	mg/L	0.0014U	0.0014U	0.0014U	0.0137U	0.0137U	0.0014U
TIN	NC	mg/L	0.0138U	0.0138U	0.0138U	0.138U	0.138U	0.0138U
VANADIUM	NC	mg/L	0.05U	0.05U	0.000263U	0.0062J	0.5U	0.000283U
ZINC	2(G)	mg/L	0.0124J	0.0016J	0.0011U	0.0109U	0.0268J	0.0011U

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0076-01 SB915-MW-92I 3/12/2013 Regular sample	SCA-0077-01 SB915-MW-92S 3/12/2013 Regular sample	SCA-0075-01 SB915-MW-93BR 3/11/2013 Regular sample	SCA-0074-03 SB915-MW-93D 3/11/2013 Regular sample	SCA-0074-04 SB915-MW-93I 3/11/2013 Regular sample	SCA-0074-02 SB915-MW-93S 3/11/2013 Regular sample
ALUMINUM	NC	mg/L	0.0392U	0.0784U	0.784U	0.195	3.77	0.1U
ANTIMONY	0.003(S)	mg/L	0.0011U	0.011U	0.6U	0.0011U	0.0011U	0.0011U
ARSENIC	0.025(S)	mg/L	0.0015U	0.018J	0.0147U	0.0015U	0.0015U	0.0015U
BARIUM	1(S)	mg/L	0.358	[1.46]	0.0038U	0.0589	0.0726	0.108
BERYLLIUM	0.003(G)	mg/L	0.000153U	0.0015U	0.0015U	0.000153U	0.000153U	0.000153U
BORON	1(S)	mg/L	0.0462U	0.462U	0.462U	0.0462U	0.0462U	0.0462U
CADMIUM	0.005(S)	mg/L	0.000168U	0.0017U	0.0017U	0.000168U	0.000168U	0.000168U
CALCIUM	NC	mg/L	1560	4250	13500	778	823	667
CHROMIUM	0.05(S)	mg/L	0.0126	0.0088U	0.0088U	0.0025J	0.0274	0.0036J
COBALT	NC	mg/L	0.05U	0.0022U	0.5U	0.05U	0.05U	0.05U
COPPER	0.2(S)	mg/L	0.02U	0.2U	0.2U	0.02U	0.02U	0.02U
CYANIDE	0.2(S)	mg/L	0.01U	0.01U	0.010U	0.010U	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.01U	0.01U	0.010U	0.010U	0.010U	0.010U
IRON	0.3(S)	mg/L	0.216	1U	[35.5]	[0.621]	[4.91]	[0.52]
LEAD	0.025(S)	mg/L	0.000625U	0.0063U	0.0119J	0.0012J	0.0024J	0.000625U
MAGNESIUM	35(G)	mg/L	28.8	0.0968J	[2540]	[56]	[80.4]	31.8
MANGANESE	0.3(S)	mg/L	0.0928	0.1U	[14.9]	[1.2]	[1.33]	[0.986]
MERCURY	0.0007(S)	mg/L	3.72E-05	0.000243	6.30E-06	0.0000014	5e-007U	2.10E-06
NICKEL	0.1(S)	mg/L	0.0122J	0.028J	0.0207U	0.0039J	0.0208J	0.0048J
POTASSIUM	NC	mg/L	53.2	133	1250	30.2	32.5	36.3
SELENIUM	0.01(S)	mg/L	0.009J	0.0377U	[0.0635J]	0.0078J	0.0056J	0.0047J
SILVER	0.05(S)	mg/L	0.0042J	0.1U	0.1U	0.01U	0.01U	0.01U
SODIUM	20(S)	mg/L	[1120]	[2680]	[22400]	[485]	[482]	[394]
THALLIUM	0.0005(G)	mg/L	0.0014U	0.0137U	0.0137U	0.0014U	0.0014U	0.0014U
TIN	NC	mg/L	0.0138U	0.138U	0.138U	0.0138U	0.0138U	0.0138U
VANADIUM	NC	mg/L	0.05U	0.5U	0.5U	0.05U	0.05U	0.05U
ZINC	2(G)	mg/L	0.0011U	0.0308J	0.0768J	0.0051J	0.0079J	0.0036J

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0068-03 SB915-MW-94S 3/6/2013 Regular sample	SCA-0068-02 SB915-MW-95S 3/6/2013 Regular sample	SCA-0068-01 SB915-MW-96S 3/6/2013 Regular sample	SCA-0071-02 SB915-MW-97S 3/7/2013 Regular sample	SCA-0071-03 SB915-MW-98S 3/7/2013 Regular sample	SCA-0071-04 SB915-MW-99S 3/7/2013 Regular sample
ALUMINUM	NC	mg/L	0.0078U	0.0078U	0.492	0.177	0.1U	0.977
ANTIMONY	0.003(S)	mg/L	0.0011U	0.0011U	0.0011U	0.0011U	0.0011U	0.0011U
ARSENIC	0.025(S)	mg/L	0.0015U	0.0015U	0.0015U	0.0015U	0.0015U	0.0015U
BARIUM	1(S)	mg/L	0.0826	0.138	0.0576	0.0405	0.176	0.131
BERYLLIUM	0.003(G)	mg/L	0.000153U	0.000153U	0.000153U	0.000153U	0.000153U	0.000153U
BORON	1(S)	mg/L	0.0462UJ	0.0462UJ	0.0462U	0.0462UJ	0.0462UJ	0.0462UJ
CADMIUM	0.005(S)	mg/L	0.000168U	0.000168U	0.000168U	0.000168U	0.000168U	0.000168U
CALCIUM	NC	mg/L	171	229	84.9	164	395	421
CHROMIUM	0.05(S)	mg/L	0.000884U	0.0047J	0.0097J	0.0019J	0.000884U	0.0069J
COBALT	NC	mg/L	0.05U	0.000217U	0.05U	0.05U	0.05U	0.05U
COPPER	0.2(S)	mg/L	0.02U	0.02U	0.02U	0.02U	0.02U	0.02U
CYANIDE	0.2(S)	mg/L	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.010R	0.010R	0.010R	0.010R	0.010U	0.010R
IRON	0.3(S)	mg/L	0.1U	0.1U	[0.627]	0.239	0.1U	[2.09]
LEAD	0.025(S)	mg/L	0.005U	0.005U	0.000625U	0.005U	0.000625U	0.005U
MAGNESIUM	35(G)	mg/L	[35]	16	17	26.4	[42.4]	[43.2]
MANGANESE	0.3(S)	mg/L	[1.24]	0.0587	0.167	0.0873	[0.611]	[0.878]
MERCURY	0.0007(S)	mg/L	5.42e-007J	8.52e-007J	2.00E-06	1.10E-06	1.60E-06	2.00E-06
NICKEL	0.1(S)	mg/L	0.0021U	0.0026J	0.0061J	0.0023J	0.0021U	0.0046J
POTASSIUM	NC	mg/L	4.73	10.7	7.21	11.6	25.2	31.1
SELENIUM	0.01(S)	mg/L	0.0058J	0.0068J	0.0059J	0.0063J	0.0071J	0.0088J
SILVER	0.05(S)	mg/L	0.0013J	0.0011J	0.000551J	0.00054U	0.0019J	0.0021J
SODIUM	20(S)	mg/L	[62]	[208]	[51.1]	[166]	[293]	[252]
THALLIUM	0.0005(G)	mg/L	0.0014U	0.0014U	0.0014U	0.0014U	0.0014U	0.0014U
TIN	NC	mg/L	0.0138U	0.0138U	0.0138U	0.0138U	0.0138U	0.0138U
VANADIUM	NC	mg/L	0.000283U	0.05U	0.05U	0.05U	0.05U	0.05U
ZINC	2(G)	mg/L	0.0011U	0.0011U	0.0031J	0.0087J	0.0011U	0.0057J

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0088-03 SB915-PZ-07D 2/7/2013 Regular sample	SB915-0088-02 SB915-PZ-07I 2/7/2013 Regular sample	SB915-0088-01 SB915-PZ-07S 2/7/2013 Regular sample	SB915-0098-01 SB915-WB-01L 2/20/2013 Regular sample	SCA-0070-05 SB915-WB-02L 3/7/2013 Regular sample	SB915-0095-01 SB915-WB-03L 2/15/2013 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	0.392U	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	0.6U	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	0.0147U	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	0.2U	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	0.0015U	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	0.462UJ	NA
CADMIUM	0.005(S)	mg/L	0.5U	0.5U	0.5U	0.05U	0.0017UN	0.05U
CALCIUM	NC	mg/L	8100	9200	1300	290	15000	8200
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	0.0088U	NA
COBALT	NC	mg/L	NA	NA	NA	NA	0.5U	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	0.2U	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	0.072J	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	0.010R	NA
IRON	0.3(S)	mg/L	10U	10U	10U	[2.4]	[23]	[48]
LEAD	0.025(S)	mg/L	0.3U	0.3U	0.3U	0.03U	0.0063U	0.06U
MAGNESIUM	35(G)	mg/L	500U	500U	500U	[51]	[837]	[400]
MANGANESE	0.3(S)	mg/L	1.5U	1.5U	1.5U	0.15U	[2.56]	[3]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	7.74e-007J	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	0.0207U	NA
POTASSIUM	NC	mg/L	500U	500U	500U	50U	189	71
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	[0.0677J]	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	0.1U	NA
SODIUM	20(S)	mg/L	[5300]	[5400]	500U	50U	[10300]	[5900]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	0.0137U	NA
TIN	NC	mg/L	NA	NA	NA	NA	0.138U	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	0.5U	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	0.0109U	NA

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0073-05 SB915-WB-04L 3/8/2013 Regular sample	SB915-0091-03 SB915-WB-05L 2/11/2013 Regular sample	SB915-0091-01 SB915-WB-05M 2/11/2013 Regular sample	SB915-0091-06 SB915-WB-05R 2/11/2013 Regular sample	SB915-0091-02 SB915-WB-05U 2/11/2013 Regular sample	SB915-0099-01 SB915-WB-06 2/21/2013 Regular sample
ALUMINUM	NC	mg/L	0.0392U	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	0.0011U	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	0.0015U	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	0.518	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	0.000153U	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	0.231U	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.000168U	0.5U	0.05U	0.5U	0.05U	0.05U
CALCIUM	NC	mg/L	2160	18000J	3100J	11000J	2900J	18000
CHROMIUM	0.05(S)	mg/L	0.0015J	NA	NA	NA	NA	NA
COBALT	NC	mg/L	0.000217U	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	0.02U	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	0.010U	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	0.010U	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[9.57]	[35J]	[25J]	[40J]	1U	[62]
LEAD	0.025(S)	mg/L	0.0035J	0.3U	0.03U	0.75U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[222]	[150]	[94]	[2000]	50U	[120]
MANGANESE	0.3(S)	mg/L	[0.412]	[8.9J]	[1.5J]	[13J]	0.15U	[6.8J]
MERCURY	0.0007(S)	mg/L	5.12e-007J	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	0.0021U	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	94.8	210J	110J	2300J	160J	200J
SELENIUM	0.01(S)	mg/L	0.0083J	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	0.01U	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[1720]	[13000J]	[2900J]	[86000J]	[1600J]	[13000]
THALLIUM	0.0005(G)	mg/L	0.0014U	NA	NA	NA	NA	NA
TIN	NC	mg/L	0.0138U	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	0.05U	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	0.0098J	NA	NA	NA	NA	NA

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Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0093-01 SB915-WB-07L 2/13/2013 Regular sample	SB915-0093-03 SB915-WB-07R 2/13/2013 Regular sample	SB915-0093-02 SB915-WB-07U 2/13/2013 Regular sample	SB915-0094-02 SB915-WB-09L 2/14/2013 Regular sample	SB915-0099-07 SB915-WB-10L 2/21/2013 Regular sample	SB915-0095-02 SB915-WB-10U 2/15/2013 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	9900	2000	2800	12000	14000	7100
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	[34]	[1.3]	[14]	[36]	[76]	[130]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.15U	0.03U	0.06U
MAGNESIUM	35(G)	mg/L	[290]	[330]	[140]	[220]	[230]	[300]
MANGANESE	0.3(S)	mg/L	[2.5]	[2.8]	[0.55]	[2.9]	[2.8J]	[17]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	150	400	50U	81	110J	150
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[8500]	[46000]	[2900]	[11000]	[12000]	[4500]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA

NOTES:
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NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 31
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0099-04 WB18-MW-14BR 2/21/2013 Regular sample	SB915-0099-06 WB18-MW-14D 2/21/2013 Regular sample
ALUMINUM	NC	mg/L	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA
BARIUM	1(S)	mg/L	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA
BORON	1(S)	mg/L	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U
CALCIUM	NC	mg/L	3700	8500
CHROMIUM	0.05(S)	mg/L	NA	NA
COBALT	NC	mg/L	NA	NA
COPPER	0.2(S)	mg/L	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA
IRON	0.3(S)	mg/L	[5.8]	[47]
LEAD	0.025(S)	mg/L	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	[410]	[99]
MANGANESE	0.3(S)	mg/L	[2.4J]	[2.8J]
MERCURY	0.0007(S)	mg/L	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA
POTASSIUM	NC	mg/L	420J	50U
SELENIUM	0.01(S)	mg/L	NA	NA
SILVER	0.05(S)	mg/L	NA	NA
SODIUM	20(S)	mg/L	[55000]	[5600]
THALLIUM	0.0005(G)	mg/L	NA	NA
TIN	NC	mg/L	NA	NA
VANADIUM	NC	mg/L	NA	NA
ZINC	2(G)	mg/L	NA	NA

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0093-07 SB915-IMW-01S 2/13/2013 Regular sample	SB915-0096-05 SB915-IMW-02S 2/18/2013 Regular sample	SB915-0096-02 SB915-IMW-03S 2/18/2013 Regular sample	SB915-0096-01 SB915-IMW-04S 2/18/2013 Regular sample	SB915-0093-06 SB915-IMW-05S 2/13/2013 Regular sample	SB915-0093-04 SB915-IMW-06S 2/13/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	190	110	290	170	5.0U	5.0U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	110	83
ALKALINITY, TOTAL	NC	mg/L	190	110	290	170	130	460
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	6.0U	10	6.0U	6.1	33	10
BROMIDE	2(G)	mg/L	13U	[25]	[28]	2.5U	[17]	13U
CHEMICAL OXYGEN DEMAND	NC	mg/L	1400J	10UJ	2500J	280J	1400J	800J
CHLORIDE	250(S)	mg/L	[11000]	[23000]	[24000]	[3200]	[11000]	[9000]
HARDNESS (AS CACO3)	NC	mg/L	10000	20000	22000	3500	9000	8800
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	1.0J	[2.5J]	[13J]	1.1J	[7.1J]	[3.3J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	30	5.0U	9.7	5.7
NITROGEN, NITRATE (AS N)	10(S)	mg/L	2.5U	5.0U	5.0U	0.50U	2.5U	2.5U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	57	64	50U	29	39	39
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	17000	33000	35000	5100	15000	14000
TOTAL ORGANIC CARBON	NC	mg/L	1.2J	1.9J	18J	5.6J	15J	4.5J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	0.010U	[0.71J]	0.010U	[0.14J]	[0.073J]

NOTES:
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NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0088-04 SB915-MW-01 2/7/2013 Regular sample	SB915-0088-08 SB915-MW-03 2/7/2013 Regular sample	SB915-0086-08 SB915-MW-04 2/5/2013 Regular sample	SCA-0070-01 SB915-MW-100S 3/7/2013 Regular sample	SCA-0072-01 SB915-MW-101S 3/8/2013 Regular sample	SCA-0073-08 SB915-MW-102S 3/8/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	450	280	560	NA	NA	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	20	5.0U	5.0U	NA	NA	NA
ALKALINITY, TOTAL	NC	mg/L	470	280	560	9	33.8	156
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0U	6.0U	3.7	3.4	2.0U
BROMIDE	2(G)	mg/L	0.50U	2.5U	13U	[2.3]	1.5	1.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	18	240	6400	49.5	18.4	6
CHLORIDE	250(S)	mg/L	50	[2400]	[17000]	[5470]	[3670]	[1330]
HARDNESS (AS CACO3)	NC	mg/L	480	3600	11000	4820J	3310	1360
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.11J	[20J]	[8.9J]	[21.4]	[10.5]	[3.06]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	19	9.5	19.8	9.57J	2.55J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.10U	0.50U	2.5U	1.0U	1.0U	1.0U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	50	190	180	53.0J	126	179
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	590	8100	24000	8540	6070	2660
TOTAL ORGANIC CARBON	NC	mg/L	4.4	1.8	5.9	1.1J	1.0J	0.9J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	0.010U	0.010U	[0.026J]	[0.017J]	0.050U

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0078-01 SB915-MW-103S 3/13/2013 Regular sample	SB915-0097-01 SB915-MW-104I 2/19/2013 Regular sample	SB915-0093-05 SB915-MW-104S 2/13/2013 Regular sample	SB915-0097-03 SB915-MW-105BF 2/19/2013 Regular sample	SB915-0086-04 SB915-MW-106I 2/5/2013 Regular sample	SB915-0086-01 SB915-MW-106S 2/5/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	NA	220	130	290	67	180
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	NA	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	188	220	130	290	67	180
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2U	2.0U	6.0U	13	2.0U	2.0U
BROMIDE	2(G)	mg/L	0.9J	0.50U	50U	0.50U	13U	0.50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	6	13J	23000J	31J	1800	10U
CHLORIDE	250(S)	mg/L	[1090]	100	[61000]	89	[15000]	53
HARDNESS (AS CACO3)	NC	mg/L	1130	580	48000	430	12000	220
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.331	0.10UJ	0.31J	[3.0J]	1.5J	0.16J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	0.38J	5.0U	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1J	0.42	10U	4.6	2.5U	0.13
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	202	[300]	100U	210J	25U	27
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	2270	710	78000	600	22000	300
TOTAL ORGANIC CARBON	NC	mg/L	1	1.0UJ	1.7J	3.1J	1.0U	1.0U
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.05U	0.010U	0.010U	0.010U	[0.056]	0.010U

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0087-02 SB915-MW-107BR 2/6/2013 Regular sample	SB915-0087-04 SB915-MW-107D 2/6/2013 Regular sample	SB915-0087-03 SB915-MW-107I 2/6/2013 Regular sample	SB915-0087-01 SB915-MW-107S 2/6/2013 Regular sample	SB915-0091-11 SB915-MW-108BR 2/11/2013 Regular sample	SB915-0091-10 SB915-MW-108D 2/11/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	51	83	200	130	200	230
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0UJ	10J
ALKALINITY, TOTAL	NC	mg/L	51	83	200	130	200	240
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0U	2.0U	2.0U	6.0U	2.0U
BROMIDE	2(G)	mg/L	130U	50U	5.0U	25U	[5.1J]	0.50UJ
CHEMICAL OXYGEN DEMAND	NC	mg/L	5700	3400	430	1200	56J	29J
CHLORIDE	250(S)	mg/L	[120000]	[71000]	[4900]	[30000]	200J	91J
HARDNESS (AS CACO3)	NC	mg/L	8600	28000	4400	24000	1700	480
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[19J]	[22J]	2.0J	0.67J	0.86	0.12
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	19	19	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	25U	10U	1.0U	5.0U	0.25U	0.10U
NITROGEN, NITRITE	1(S)	mg/L	13U	5.0U	0.50U	2.5U	NA	NA
SULFATE	250(S)	mg/L	[4300]	[1400]	200	58	[1400]	230
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	140000	76000	7600	34000	2200	740
TOTAL ORGANIC CARBON	NC	mg/L	1.0U	1.0U	1.0U	1.0U	1.0R	1.1J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	[0.012]	0.010U	0.010U	[0.14]	0.010U

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0092-05 SB915-MW-109I 2/12/2013 Regular sample	SB915-0092-04 SB915-MW-109S 2/12/2013 Regular sample	SB915-0094-05 SB915-MW-110S 2/14/2013 Regular sample	SB915-0090-04 SB915-MW-111BF 2/8/2013 Regular sample	SB915-0090-03 SB915-MW-111D 2/8/2013 Regular sample	SB915-0090-02 SB915-MW-111I 2/8/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	84	5.0U	320	7.8	22	27
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0UJ	84J	13	5.0UJ	5.0UJ	5.0UJ
ALKALINITY, TOTAL	NC	mg/L	84	830	340	7.8	22	27
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	7.9J	3.5J	6.0U	3.4	2	3.4
BROMIDE	2(G)	mg/L	13UJ	13UJ	1.3	[940J]	50UJ	50UJ
CHEMICAL OXYGEN DEMAND	NC	mg/L	1800J	4400J	140J	20000J	9200J	16000J
CHLORIDE	250(S)	mg/L	[15000J]	[13000J]	[860]	[110000J]	[70000J]	[43000J]
HARDNESS (AS CACO3)	NC	mg/L	13000	11000	1100	66000	51000	35000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[6.1]	[4.5]	0.10UJ	[190]	[24]	[11]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	6.9	5.7	5.0U	34J	29	25U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	2.5U	2.5U	0.25U	10U	10U	10U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	36	[560]	35	[690]	[260]	140
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	28000	21000	2100	150000	100000	56000
TOTAL ORGANIC CARBON	NC	mg/L	1.8J	2.4J	3.2J	1.0R	1.6J	1.5J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.13]	[0.041]	0.010U	[0.13J]	[0.014J]	0.010UJ

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0090-01 SB915-MW-111S 2/8/2013 Regular sample	SB915-0094-04 SB915-MW-112I 2/14/2013 Regular sample	SB915-0094-03 SB915-MW-112S 2/14/2013 Regular sample	SB915-0094-01 SB915-MW-113S 2/14/2013 Regular sample	SB915-0086-06 SB915-MW-115BF 2/5/2013 Regular sample	SB915-0086-05 SB915-MW-116S 2/5/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	190	83	41	5.0U	140	250
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0UJ	5.0U	5.0U	28	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	190	83	41	29	140	250
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	24U	2.9	3.8	6.0U	2.0U	2.0U
BROMIDE	2(G)	mg/L	13UJ	25U	[6.3]	[21]	25U	0.50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	3100J	4600J	6900J	1100J	1800	16
CHLORIDE	250(S)	mg/L	[12000J]	[35000]	[4100]	[11000]	[19000]	200
HARDNESS (AS CACO3)	NC	mg/L	11000	32000	4200	10000	11000	500
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[7.6]	[7.2J]	[2.2J]	[2.8J]	[3.9J]	0.10UJ
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	9.1	120	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	2.5U	5.0U	1.1	2.5U	5.0U	0.2
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	25U	70	62	[460]	[1300]	110
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	18000	55000	7700	19000	27000	710
TOTAL ORGANIC CARBON	NC	mg/L	13J	2.1J	1.8J	2.3J	1.0U	1.8
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010UJ	0.010U	0.010U	[0.017J]	0.010U	0.010U

NOTES:
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NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0086-09 SB915-MW-117S 2/5/2013 Regular sample	SB915-0085-02 SB915-MW-118BF 2/4/2013 Regular sample	SB915-0085-01 SB915-MW-118S 2/4/2013 Regular sample	SB915-0088-07 SB915-MW-36D 2/7/2013 Regular sample	SB915-0088-06 SB915-MW-36I 2/7/2013 Regular sample	SB915-0088-05 SB915-MW-36S 2/7/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	140	200	250	220	5.0U	5.0U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	49	63
ALKALINITY, TOTAL	NC	mg/L	140	200	250	220	1000	1500
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0U	2.0U	2.0U	2.0U	7.2
BROMIDE	2(G)	mg/L	5.0U	5.0U	1.3U	2.5U	0.50U	0.6
CHEMICAL OXYGEN DEMAND	NC	mg/L	780	140	58	510	52	35
CHLORIDE	250(S)	mg/L	[7100]	[3400]	[1300]	[1700]	[330]	65
HARDNESS (AS CACO3)	NC	mg/L	5700	4000	1400	1800	1500	1600
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.35J	[5.7J]	0.35J	0.72J	2.0J	1.0J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	6.2	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.0U	1.0U	0.25U	0.50U	0.10U	0.10U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	150	[1200]	55	170	9.8	5.6
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	12000	5500	2400	3100	1400	1300
TOTAL ORGANIC CARBON	NC	mg/L	1.0U	1	3.7	1.0U	4	8.2
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.012]	0.010U	[0.013]	0.010U	[0.012]	[0.015]

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Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0097-04 SB915-MW-42D 2/19/2013 Regular sample	SB915-0098-04 SB915-MW-42I 2/20/2013 Regular sample	SB915-0092-02 SB915-MW-53D 2/12/2013 Regular sample	SB915-0092-01 SB915-MW-53I 2/12/2013 Regular sample	SB915-0091-07 SB915-MW-59S 2/11/2013 Regular sample	SB915-0098-03 SB915-MW-60S 2/20/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	24	5.0U	200	5.0U	64	200
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	94	32J	94J	5.0UJ	5.0U
ALKALINITY, TOTAL	NC	mg/L	24	1600	230	1600	64	200
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	19	2.0U	28J	6.0U	6.5
BROMIDE	2(G)	mg/L	[56]	[58]	0.50UJ	50UJ	13UJ	[5.2]
CHEMICAL OXYGEN DEMAND	NC	mg/L	6100J	11000J	38J	16000J	1500J	830J
CHLORIDE	250(S)	mg/L	[44000]	[47000J]	[440J]	[61000J]	[8600J]	[4600J]
HARDNESS (AS CACO3)	NC	mg/L	42000	44000	710	52000	8000	4500
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[16J]	[12]	1	[15]	[13]	[5.5]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	14	6.9	5.0U	29	13	6.9
NITROGEN, NITRATE (AS N)	10(S)	mg/L	10U	10U	0.10U	10U	2.5U	1.0U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	220	140J	180	140	95	10U
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	69000	71000J	1400	97000	14000	7800J
TOTAL ORGANIC CARBON	NC	mg/L	2.0J	4.3J	1.0UJ	8.9J	1.0R	2.9J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.082]	[0.090]	0.010U	[0.28]	0.010U	0.010U

NOTES:
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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-0091-09 SB915-MW-70D 2/11/2013 Regular sample	SB915-0091-08 SB915-MW-70S 2/11/2013 Regular sample	SB915-0098-02 SB915-MW-85D 2/20/2013 Regular sample	SCA-0069-04 SB915-MW-87BR 3/6/2013 Regular sample	SCA-0069-03 SB915-MW-87I 3/6/2013 Regular sample	SCA-0069-01 SB915-MW-87S 3/6/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	36	99	14	NA	NA	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0UJ	5.0UJ	5.0U	NA	NA	NA
ALKALINITY, TOTAL	NC	mg/L	36	99	14	46.4	197	181
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	6.0U	6.0J	6.0U	200U	2.0U	2.0U
BROMIDE	2(G)	mg/L	[52J]	13UJ	[54]	[121]	1.0U	1.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	3500J	340J	14000J	1210	5.0U	5.0U
CHLORIDE	250(S)	mg/L	[42000J]	[8400J]	[49000J]	[33900]	[1170]	147
HARDNESS (AS CACO3)	NC	mg/L	35000	8200	46000	28500J	1180J	700J
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[15]	[5.5]	[23]	[23.3J]	1.19	0.050U
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	26	5.7	29	3.2UJ	0.94	0.40U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	10U	2.5U	10U	1.0U	1.0U	1.3
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	100U	89	120	[1060]	242J	64.3J
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	57000	14000	72000J	66700	2580	531
TOTAL ORGANIC CARBON	NC	mg/L	1.2J	1.2J	1.8J	1.0UJ	0.7J	2.3J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	[0.14]	[0.35]	[0.19J]	[0.0066]	[0.0017J]

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0071-01 SB915-MW-88BR 3/7/2013 Regular sample	SCA-0070-04 SB915-MW-88D 3/7/2013 Regular sample	SCA-0070-03 SB915-MW-88I 3/7/2013 Regular sample	SCA-0070-02 SB915-MW-88S 3/7/2013 Regular sample	SCA-0072-02 SB915-MW-89BR 3/8/2013 Regular sample	SCA-0072-03 SB915-MW-89D 3/8/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	NA	NA	NA	NA	NA	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	NA	NA	NA	NA	NA	NA
ALKALINITY, TOTAL	NC	mg/L	66.7	16.2	76.7	227	43.6	72
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	200U	7.3	10.4	2.0U	200U	2.0U
BROMIDE	2(G)	mg/L	[88.7]	[4.2]	1.7	1.0U	[295]	[2.6]
CHEMICAL OXYGEN DEMAND	NC	mg/L	2920	592	29.2	6	1700	43.2
CHLORIDE	250(S)	mg/L	[30100]	[9130]	[3120]	[356]	[36500]	[5410]
HARDNESS (AS CACO3)	NC	mg/L	24100J	9200J	3100J	570J	24000	5300
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[21.3J]	[35.8]	[31.9]	[8.37]	[44]	[23.9]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	8.66J	30.9	30.8	7.96	37.8J	15.5J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.0U	1.0U	1.0U	0.6J	2.0U	1.0U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	[1020]	25.4R	2.0U	133J	[1150]	10.6
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	58800	15300	5180	984	68800	7800
TOTAL ORGANIC CARBON	NC	mg/L	0.4J	1.3J	3.7J	1.8J	1.0U	1.1
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.14J]	[0.035J]	[0.020J]	[0.0017J]	[0.17J]	[0.020J]

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0072-04 SB915-MW-89I 3/8/2013 Regular sample	SCA-0072-05 SB915-MW-89S 3/8/2013 Regular sample	SCA-0073-06 SB915-MW-90BR 3/8/2013 Regular sample	SCA-0073-02 SB915-MW-90I 3/8/2013 Regular sample	SCA-0073-01 SB915-MW-90S 3/8/2013 Regular sample	SCA-0076-03 SB915-MW-91BR 3/12/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	NA	NA	NA	NA	NA	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	NA	NA	NA	NA	NA	NA
ALKALINITY, TOTAL	NC	mg/L	75.4	248	68.3	55	140	24.1
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0U	200U	2.0U	6.0U	5.6
BROMIDE	2(G)	mg/L	1.5	1.0U	[168]	1.2	1.0U	[121]
CHEMICAL OXYGEN DEMAND	NC	mg/L	16	5.0U	1630	9.2	6	4090
CHLORIDE	250(S)	mg/L	[3180]	[633]	[22200]	[3300]	[1690]	[76200]
HARDNESS (AS CACO3)	NC	mg/L	3020	883	15800	2900	1750	11800
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[8.41]	0.665	[14.5J]	[7.13]	[4.15]	[19.7]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	7.53J	0.69J	0.80UJ	5.89J	3.60J	8.55J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.0U	0.7J	1.0U	0.5J	0.6J	4U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	56.2	89.2	[1370]	129	168	[2670]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	5440	1480	42700	5750	3190	128000
TOTAL ORGANIC CARBON	NC	mg/L	1.3	1.2	0.2J	0.7J	0.8J	1.5
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.017J]	[0.017J]	[0.09J]	[0.020J]	0.050U	[0.51]

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Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SCA-0075-02 SB915-MW-91D 3/11/2013 Regular sample	SCA-0076-04 SB915-MW-91I 3/12/2013 Regular sample	SCA-0077-02 SB915-MW-91SN 3/12/2013 Regular sample	SCA-0075-03 SB915-MW-91S 3/11/2013 Regular sample	SCA-0078-02 SB915-MW-92BR 3/13/2013 Regular sample	SCA-0076-02 SB915-MW-92D 3/12/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	NA	NA	NA	NA	NA	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	NA	NA	NA	NA	NA	NA
ALKALINITY, TOTAL	NC	mg/L	112	156	178	717	139	193
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2U	2.2	8.6	2U	2U
BROMIDE	2(G)	mg/L	1	1U	1.1	[6.8]	[127]	1U
CHEMICAL OXYGEN DEMAND	NC	mg/L	15.1	12.3	8.5	495	527	6.6
CHLORIDE	250(S)	mg/L	[2560]	[1990]	[3160]	[17800]	[17700]	[801]
HARDNESS (AS CACO3)	NC	mg/L	2110	2000	3400	18600	10700	1080
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	1.21	1.16	[2.31]	[7.1]	[14.6]	0.05U
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	0.87J	1.68J	2.41J	5.37J	11.2J	0.8UJ
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.0U	1U	0.5J	1.0U	1U	1.1
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	148	172	182	5.8	[861]	183
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	3800	3370	4750	29100	29500	1800
TOTAL ORGANIC CARBON	NC	mg/L	0.6J	0.8J	1.5	2.2	2	0.8J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.050U	0.05U	0.2U	[0.10J]	[0.1J]	0.05U

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Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0076-01 SB915-MW-92I 3/12/2013 Regular sample	SCA-0077-01 SB915-MW-92S 3/12/2013 Regular sample	SCA-0075-01 SB915-MW-93BR 3/11/2013 Regular sample	SCA-0074-03 SB915-MW-93D 3/11/2013 Regular sample	SCA-0074-04 SB915-MW-93I 3/11/2013 Regular sample	SCA-0074-02 SB915-MW-93S 3/11/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	NA	NA	NA	NA	NA	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	NA	NA	NA	NA	NA	NA
ALKALINITY, TOTAL	NC	mg/L	219	760	35.2	164	166	135
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	5.4	44.9	2.1	2.0U	2.0U	2.0U
BROMIDE	2(G)	mg/L	1.6	[5.2]	[527]	1.0U	0.8J	1.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	8.8	909	3130	11.7	15.1	9.2
CHLORIDE	250(S)	mg/L	[4350]	[11500]	[67500]	[2080]	[2150]	[1750]
HARDNESS (AS CACO3)	NC	mg/L	4050	10700	43100	2060	2400	1780
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[2.75]	[11.3J]	[50.4]	[4.12]	[4.27]	[5.58]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	2.86J	5.93J	45.3J	3.86J	3.73J	4.86J
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.8J	1U	4.0U	0.5J	1.0U	1.0U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	153	4.6	[1100]	154	150	138
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	6980	18800	125000	3410	3500	3130
TOTAL ORGANIC CARBON	NC	mg/L	2.7	12.5	0.3J	1.0J	1	1.2
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.2U	[0.07J]	[0.33]	0.050U	0.050U	0.050U

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Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0068-03 SB915-MW-94S 3/6/2013 Regular sample	SCA-0068-02 SB915-MW-95S 3/6/2013 Regular sample	SCA-0068-01 SB915-MW-96S 3/6/2013 Regular sample	SCA-0071-02 SB915-MW-97S 3/7/2013 Regular sample	SCA-0071-03 SB915-MW-98S 3/7/2013 Regular sample	SCA-0071-04 SB915-MW-99S 3/7/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	NA	NA	NA	NA	NA	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	NA	NA	NA	NA	NA	NA
ALKALINITY, TOTAL	NC	mg/L	428	125	240	270	205	232
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
BROMIDE	2(G)	mg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	6.6	12.9	5.0U	6.6	12.3	12.3
CHLORIDE	250(S)	mg/L	189	[594]	68.3J	[351]	[1090]	[1030]
HARDNESS (AS CACO3)	NC	mg/L	571J	661J	275J	518J	1160J	1220J
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	0.031J	0.371	0.050U	0.153	[7.37]	[5.88]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	0.59	0.43	0.27	0.23J	7.06	5.36
NITROGEN, NITRATE (AS N)	10(S)	mg/L	2.2	1.0U	1.2	1.3	0.5J	1.0U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	28.5R	140J	54.9J	126J	97.4J	86.6J
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	797	1410	417	1030	2270	2030
TOTAL ORGANIC CARBON	NC	mg/L	3.4J	1.1J	2.4J	1.3J	1.6J	1.4J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.0050U	[0.0029J]	0.0050U	0.050U	0.050U	0.050U

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Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0088-03 SB915-PZ-07D 2/7/2013 Regular sample	SB915-0088-02 SB915-PZ-07I 2/7/2013 Regular sample	SB915-0088-01 SB915-PZ-07S 2/7/2013 Regular sample	SB915-0098-01 SB915-WB-01L 2/20/2013 Regular sample	SCA-0070-05 SB915-WB-02L 3/7/2013 Regular sample	SB915-0095-01 SB915-WB-03L 2/15/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	280	NA	160
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	97	100	53	5.0U	NA	5.0U
ALKALINITY, TOTAL	NC	mg/L	1100	520	1400	280	76.7	160
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	18	7	2.0U	2.0U	200U	2.9
BROMIDE	2(G)	mg/L	25U	25U	2.5U	0.50U	[17.3]	25U
CHEMICAL OXYGEN DEMAND	NC	mg/L	1600	1300	120	12J	3480	1700J
CHLORIDE	250(S)	mg/L	[26000]	[32000]	[1400]	83J	[44200]	[19000]
HARDNESS (AS CACO3)	NC	mg/L	24000	30000	3000	920	39500J	23000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[15J]	[9.0J]	[7.7J]	0.25J	[17.6J]	[5.2J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	25U	8.6	5.0U	8.0UJ	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	5.0U	5.0U	0.50U	0.10U	2.0U	5.0U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	50U	50U	14	[510]	[654]	200
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	26000	45000	3300	1000J	79900	39000
TOTAL ORGANIC CARBON	NC	mg/L	2.8	1.6	1.0U	2.6J	0.4J	1.0UJ
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.23]	[0.11]	[0.019]	0.010U	[0.20]	0.010U

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Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SCA-0073-05 SB915-WB-04L 3/8/2013 Regular sample	SB915-0091-03 SB915-WB-05L 2/11/2013 Regular sample	SB915-0091-01 SB915-WB-05M 2/11/2013 Regular sample	SB915-0091-06 SB915-WB-05R 2/11/2013 Regular sample	SB915-0091-02 SB915-WB-05U 2/11/2013 Regular sample	SB915-0099-01 SB915-WB-06 2/21/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	NA	50	92	33	5.0U	50
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	NA	5.0UJ	5.0UJ	5.0UJ	45J	5.0U
ALKALINITY, TOTAL	NC	mg/L	46	50	92	33	150	50
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	6.0U	6.0U	6.0U	2.0U	2.0U
BROMIDE	2(G)	mg/L	[2.8]	[96J]	[18J]	[480J]	[14J]	50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	286	3400J	1000J	260J	530J	3000J
CHLORIDE	250(S)	mg/L	[7240]	[64000J]	[13000J]	[100000J]	[6500J]	[62000J]
HARDNESS (AS CACO3)	NC	mg/L	6210	56000	10000	28000	6800	50000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[22.3J]	[17]	[21]	[71]	[2.5]	[17]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	13.3J	26	23	66	5.0U	15
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.0U	10U	2.5U	25U	1.5	10U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	41.9	[470]	78	[1400]	89	100U
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	14200	76000	19000	160000	12000	57000J
TOTAL ORGANIC CARBON	NC	mg/L	0.7J	1.0R	1.0R	1.0R	2.0J	1.0R
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.035J]	0.010U	0.010U	0.010U	[0.018]	0.010U

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Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0093-01 SB915-WB-07L 2/13/2013 Regular sample	SB915-0093-03 SB915-WB-07R 2/13/2013 Regular sample	SB915-0093-02 SB915-WB-07U 2/13/2013 Regular sample	SB915-0094-02 SB915-WB-09L 2/14/2013 Regular sample	SB915-0099-07 SB915-WB-10L 2/21/2013 Regular sample	SB915-0095-02 SB915-WB-10U 2/15/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	68	61	160	92	57	87
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	68	61	160	92	57	87
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	6.0U	2.0U	6.0U	2.0U	2.0U	47
BROMIDE	2(G)	mg/L	25U	[80]	[24]	25U	50U	25U
CHEMICAL OXYGEN DEMAND	NC	mg/L	2800J	19000J	1400J	2900J	3300J	3600J
CHLORIDE	250(S)	mg/L	[41000]	[110000]	[12000]	[37000]	[49000J]	[27000]
HARDNESS (AS CACO3)	NC	mg/L	32000	8600	8200	32000	36000	20000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[5.8J]	[10J]	[2.5J]	[3.0J]	[7]	[13J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	6.3	9.7	5.0U	17	9.1	19
NITROGEN, NITRATE (AS N)	10(S)	mg/L	5.0U	10U	2.5U	5.0U	10U	5.0U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	[580]	[4500]	[910]	[980]	[840]	[680]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	36000	140000	18000	61000	47000J	34000
TOTAL ORGANIC CARBON	NC	mg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0R	16J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	0.010U	0.010U	0.010U	0.010U	0.010U	[0.99]

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 32
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Groundwater
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-0099-04 WB18-MW-14BR 2/21/2013 Regular sample	SB915-0099-06 WB18-MW-14D 2/21/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	55	95
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	55	95
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	6.0U
BROMIDE	2(G)	mg/L	130U	25U
CHEMICAL OXYGEN DEMAND	NC	mg/L	8500J	4000J
CHLORIDE	250(S)	mg/L	[120000J]	[29000J]
HARDNESS (AS CACO3)	NC	mg/L	14000	26000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[19]	[2.9]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	15	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	25U	5.0U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA
SULFATE	250(S)	mg/L	[2800]	96
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	150000J	60000J
TOTAL ORGANIC CARBON	NC	mg/L	1.0R	1.0R
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.014]	0.010U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 33
Honeywell
Wastebeds 9-15 Closure Investigation
Solvay Waste/Shallow Fill Groundwater
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
VOCs								
BENZENE	1(S)	µg/L	17	17	0.39	136	510	16
ACETONE	50(G)	µg/L	17	17	19.0	168	443	14
CHLOROBENZENE	5(S)	µg/L	17	14	0.23	147	376	13
1,2-DICHLOROBENZENE	3(S)	µg/L	17	12	0.49	78.8	183	11
1,4-DICHLOROBENZENE	3(S)	µg/L	17	11	17.5	62.8	102	11
TOLUENE	5(S)	µg/L	17	14	0.39	24.9	49.0	10
XYLENES, TOTAL	5(S)	µg/L	15	7	1.50	11.8	21.2	6
XYLENES, M & P	5(S)	µg/L	2	2	7.90	10.5	13.0	2
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	11	4	0.41	2.27	5.20	1
METHYLENE CHLORIDE	5(S)	µg/L	17	3	0.43	3.95	11.0	1
O-XYLENE	5(S)	µg/L	2	2	4.20	4.95	5.70	1
NAPHTHALENE	10(G)	µg/L	2	2	0.34	17.2	34.0	1
HEXACHLOROBUTADIENE	0.5(S)	µg/L	1	1	8.40	8.40	8.40	1
2-BUTANONE	50(G)	µg/L	17	9	1.20	16.4	38.0	0
ETHYLBENZENE	5(S)	µg/L	17	8	0.66	0.74	0.84	0
1,3-DICHLOROBENZENE	3(S)	µg/L	11	5	0.42	1.35	2.90	0
TETRACHLOROETHENE	5(S)	µg/L	17	2	0.15	0.16	0.16	0
2-HEXANONE	50(G)	µg/L	17	2	1.50	3.35	5.20	0
CARBON DISULFIDE	60(G)	µg/L	17	2	0.45	4.48	8.50	0
CHLOROMETHANE	5(S)	µg/L	17	1	0.32	0.32	0.32	0
4-METHYL-2-PENTANONE	NC	µg/L	17	5	1.70	2.20	2.90	NA
1,2,3-TRICHLOROBENZENE	NC	µg/L	2	2	0.47	1.59	2.70	NA
1,2,4-TRIMETHYLBENZENE	NC	µg/L	1	1	0.30	0.30	0.30	NA
METHYLCYCLOHEXANE	NC	µg/L	1	1	0.62	0.62	0.62	NA
ISOBUTANOL	NC	µg/L	11	1	26.0	26.0	26.0	NA
SVOCs								
PHENOL	1(S)	µg/L	9	7	0.47	29.8	110	6
2-METHYLPHENOL	1(S)	µg/L	9	5	0.27	10.7	35.0	3
2,4-DICHLOROPHENOL	1(S)	µg/L	9	4	0.82	3.08	9.40	2
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	9	1	0.06	0.06	0.06	1
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	9	1	0.07	0.07	0.07	1
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	9	1	0.07	0.07	0.07	1
CHRYSENE	0.002(G)	µg/L	9	1	0.08	0.08	0.08	1
BENZO(A)ANTHRACENE	0.002(G)	µg/L	9	1	0.10	0.10	0.10	1
PHENANTHRENE	50(G)	µg/L	9	3	0.12	0.28	0.45	0
NAPHTHALENE	10(G)	µg/L	9	3	0.24	1.12	2.60	0
FLUORANTHENE	50(G)	µg/L	9	2	0.02	0.05	0.09	0
BUTYLBENZYL PHTHALATE	50(G)	µg/L	9	2	0.17	0.31	0.44	0
FLUORENE	50(G)	µg/L	9	2	0.89	1.15	1.40	0
PYRENE	50(G)	µg/L	9	1	0.10	0.10	0.10	0
DI-N-BUTYL PHTHALATE	50(S)	µg/L	9	1	0.14	0.14	0.14	0
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	9	1	0.17	0.17	0.17	0
ISOPHORONE	50(G)	µg/L	9	1	0.24	0.24	0.24	0
2-CHLOROPHENOL	1(S)	µg/L	9	1	0.26	0.26	0.26	0
2,4-DIMETHYLPHENOL	50(G)	µg/L	9	1	1.70	1.70	1.70	0
ACETOPHENONE	NC	µg/L	9	8	0.22	1.93	10.0	NA
3&4-METHYLPHENOL	NC	µg/L	9	7	0.18	18.0	62.0	NA
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	9	2	0.07	0.10	0.12	NA
DIBENZO(A,H)ANTHRACENE	NC	µg/L	9	1	0.06	0.06	0.06	NA
BENZO(G,H,I)PERYLENE	NC	µg/L	9	1	0.07	0.07	0.07	NA
BENZO(A)PYRENE	NC	µg/L	9	1	0.08	0.08	0.08	NA
2-METHYLNAPHTHALENE	NC	µg/L	9	1	0.17	0.17	0.17	NA
Pesticides								
HEXACHLOROBENZENE	0.04(S)	µg/L	9	1	0.0006	0.0006	0.0006	0
BETA-BHC	0.04(S)	µg/L	9	1	0.001	0.001	0.001	0
Herbicides								
2,4-D	NC	µg/L	9	1	0.70	0.70	0.70	0
High Resolution PCBs								
Total PCBs	90(S)	ng/L	9	9	0.58	6.94	26.5	0
Dioxins/Furans								
Total TEQ	0.7(S)	pg/L	9	4	0.0004	0.001	0.003	0
Inorganic Parameters								
SODIUM	20(S)	mg/L	35	32	19.0	6,099	14,000	31
BARIUM	1(S)	mg/L	24	24	0.30	2.49	5.80	19
IRON	0.3(S)	mg/L	34	9	0.11	1.81	8.58	5
SELENIUM	0.01(S)	mg/L	24	5	0.004	0.03	0.07	4

Table 33
Honeywell
Wastebeds 9-15 Closure Investigation
Solvay Waste/Shallow Fill Groundwater
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
MERCURY	0.0007(S)	mg/L	17	17	0.0000006	0.0005	0.003	3
SILVER	0.05(S)	mg/L	24	3	0.03	0.06	0.09	2
ANTIMONY	0.003(G)	mg/L	24	2	0.01	0.05	0.08	2
MANGANESE	0.3(S)	mg/L	35	14	0.0008	0.06	0.41	1
NICKEL	0.1(S)	mg/L	24	14	0.003	0.04	0.11	1
LEAD	0.025(S)	mg/L	35	3	0.002	0.01	0.03	1
THALLIUM	0.0005(G)	mg/L	24	1	0.03	0.03	0.03	1
MAGNESIUM	35(G)	mg/L	35	18	0.03	2.67	24.1	0
CHROMIUM	0.05(S)	mg/L	24	12	0.002	0.02	0.05	0
COPPER	0.2(S)	mg/L	24	12	0.003	0.03	0.10	0
ZINC	2(G)	mg/L	24	12	0.003	0.05	0.23	0
CYANIDE	0.2(S)	mg/L	17	9	0.006	0.02	0.05	0
ARSENIC	0.025(S)	mg/L	24	5	0.003	0.008	0.02	0
BERYLLIUM	0.003(G)	mg/L	24	4	0.0008	0.001	0.002	0
HEXAVALENT CHROMIUM	0.05(S)	mg/L	17	4	0.003	0.006	0.009	0
CADMIUM	0.005(S)	mg/L	35	2	0.0001	0.0001	0.0002	0
BORON	1(S)	mg/L	24	1	0.01	0.01	0.01	0
CALCIUM	NC	mg/L	35	35	510	9,300	22,000	NA
POTASSIUM	NC	mg/L	35	29	4.80	285	610	NA
COBALT	NC	mg/L	24	8	0.0005	0.005	0.01	NA
ALUMINUM	NC	mg/L	24	8	0.28	3.34	10.9	NA
VANADIUM	NC	mg/L	24	4	0.003	0.009	0.02	NA
TIN	NC	mg/L	18	1	0.003	0.003	0.003	NA
Other Parameters								
CHLORIDE	250(S)	mg/L	35	35	65.0	25,134	61,000	34
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	35	35	0.32	8.71	18.0	31
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	35	29	0.008	0.13	0.44	29
BROMIDE	2(G)	mg/L	35	19	0.60	17.7	66.1	17
SULFATE	250(S)	mg/L	35	20	2.90	47.9	277	1
NITROGEN, NITRITE	1(S)	mg/L	21	5	0.07	0.10	0.15	0
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	6	4	0.02	0.04	0.07	0
ALKALINITY, TOTAL	NC	mg/L	35	35	460	1,076	1,600	NA
HARDNESS (AS CACO3)	NC	mg/L	35	35	1500	24,340	56,000	NA
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	35	35	1300	44,863	120,000	NA
CHEMICAL OXYGEN DEMAND	NC	mg/L	35	34	35.0	2,410	16,000	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	33	33	37.0	184	1,230	NA
TOTAL ORGANIC CARBON	NC	mg/L	35	31	1.60	7.20	28.7	NA
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	35	26	1.40	14.2	44.9	NA
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	35	22	1.10	16.0	42	NA
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	33	5	6.70	11.2	23.9	NA

NOTES:
NC = no applicable criteria; NA = not available as no applicable criteria.

Table 34
Honeywell
Wastebeds 9-15 Closure Investigation
Shallow Native Groundwater
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
VOCs								
BENZENE	1(S)	µg/L	96	43	0.15	7.00	41.6	30
CHLOROBENZENE	5(S)	µg/L	96	37	0.24	84.9	570	27
1,2-DICHLOROBENZENE	3(S)	µg/L	96	35	0.23	7.82	18	26
1,4-DICHLOROBENZENE	3(S)	µg/L	96	40	0.21	44.7	303	25
1,2-DICHLOROETHANE	0.6(S)	µg/L	96	9	0.46	3.32	7.90	5
1,3-DICHLOROBENZENE	3(S)	µg/L	45	6	0.35	2.83	8.90	2
ACETONE	50(G)	µg/L	96	20	2.50	17.5	53.0	1
HEXACHLOROBUTADIENE	0.5(S)	µg/L	1	1	0.56	0.56	0.56	1
TOLUENE	5(S)	µg/L	96	23	0.18	0.57	2.40	0
TRICHLOROETHENE	5(S)	µg/L	96	8	0.22	0.29	0.41	0
2-HEXANONE	50(G)	µg/L	96	7	0.32	0.62	1.20	0
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	96	6	0.24	0.76	1.10	0
1,1-DICHLOROETHANE	5(S)	µg/L	96	4	0.28	0.30	0.33	0
CARBON DISULFIDE	60(G)	µg/L	96	4	0.24	0.46	0.82	0
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	96	4	0.65	0.89	1.10	0
2-BUTANONE	50(G)	µg/L	96	4	2.30	5.98	15	0
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	45	3	0.24	0.43	0.60	0
XYLENES, TOTAL	5(S)	µg/L	79	3	0.74	0.78	0.85	0
VINYL CHLORIDE	2(S)	µg/L	96	3	1.30	1.43	1.60	0
O-XYLENE	5(S)	µg/L	17	1	0.58	0.58	0.58	0
XYLENES, M & P	5(S)	µg/L	17	1	1.10	1.10	1.10	0
DICHLORODIFLUOROMETHANE	5(S)	µg/L	45	1	1.30	1.30	1.30	0
4-METHYL-2-PENTANONE	NC	µg/L	96	3	0.90	1.37	1.70	NA
1,2,4-TRIMETHYLBENZENE	NC	µg/L	1	1	0.17	0.17	0.17	NA
TRIMETHYL SILANOL	NC	µg/L	1	1	4.60	4.60	4.60	NA
SVOCs								
PHENOL	1(S)	µg/L	28	9	0.78	68.0	380	8
2-METHYLPHENOL	1(S)	µg/L	28	10	0.13	4.29	18.0	6
BENZO(A)ANTHRACENE	0.002(G)	µg/L	28	2	0.02	0.05	0.07	2
CHRYSENE	0.002(G)	µg/L	28	2	0.02	0.05	0.08	2
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	28	2	0.02	0.30	0.58	2
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	28	1	0.08	0.08	0.08	1
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	28	1	0.42	0.42	0.42	1
PENTACHLOROPHENOL	1(S)	µg/L	28	1	1.70	1.70	1.70	1
PHENANTHRENE	50(G)	µg/L	28	8	0.04	0.20	0.47	0
NAPHTHALENE	10(G)	µg/L	28	7	0.03	0.67	2.30	0
FLUORANTHENE	50(G)	µg/L	28	4	0.03	0.05	0.10	0
BUTYLBENZYL PHTHALATE	50(G)	µg/L	28	4	0.33	0.40	0.46	0
PYRENE	50(G)	µg/L	28	3	0.02	0.02	0.03	0
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	28	3	1.30	1.47	1.60	0
ACENAPHTHENE	20(G)	µg/L	28	2	0.26	0.26	0.26	0
DI-N-BUTYL PHTHALATE	50(S)	µg/L	28	1	0.12	0.12	0.12	0
FLUORENE	50(G)	µg/L	28	1	0.19	0.19	0.19	0
ACETOPHENONE	NC	µg/L	28	10	0.09	0.32	0.86	NA
3&4-METHYLPHENOL	NC	µg/L	28	9	0.41	76.2	520	NA
2-METHYLNAPHTHALENE	NC	µg/L	28	5	0.06	0.13	0.23	NA
PYRIDINE	NC	µg/L	2	2	4.60	5.45	6.30	NA
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	28	1	0.11	0.11	0.11	NA
DIBENZOFURAN	NC	µg/L	28	1	0.15	0.15	0.15	NA
BENZYL ALCOHOL	NC	µg/L	28	1	0.22	0.22	0.22	NA
BENZO(A)PYRENE	NC	µg/L	28	1	0.25	0.25	0.25	NA
BENZO(G,H,I)PERYLENE	NC	µg/L	28	1	0.43	0.43	0.43	NA
DIBENZO(A,H)ANTHRACENE	NC	µg/L	28	1	0.46	0.46	0.46	NA
2-PICOLINE	NC	µg/L	1	1	2.10	2.10	2.10	NA
Pesticides								
HEXACHLOROBENZENE	0.04(S)	µg/L	28	2	0.0002	0.0002	0.0003	0
DELTA-BHC	0.04(S)	µg/L	28	2	0.001	0.002	0.003	0
BETA-BHC	0.04(S)	µg/L	28	1	0.001	0.001	0.001	0
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	28	1	0.001	0.001	0.001	0
DIELDRIN	0.004(S)	µg/L	28	1	0.002	0.002	0.002	0
4,4'-DDE	0.2(S)	µg/L	28	1	0.004	0.004	0.004	0
METHOXYCHLOR	35(S)	µg/L	28	1	0.007	0.007	0.007	0
ENDOSULFAN SULFATE	NC	µg/L	28	1	0.0008	0.0008	0.0008	NA
ENDRIN	NC	µg/L	28	1	0.02	0.02	0.02	NA
High Resolution PCBs								
TOTAL PCBs	90(S)	ng/L	28	28	0.46	17.5	437	1
Dioxins/ Furans								
Total TEQ	0.7(S)	pg/L	28	19	0.0005	0.007	0.06	0

Table 34
Honeywell
Wastebeds 9-15 Closure Investigation
Shallow Native Groundwater
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
Inorganic Parameters								
SODIUM	20(S)	mg/L	174	170	32	1,810	13,000	170
MANGANESE	0.3(S)	mg/L	174	154	0.002	3.43	23	121
IRON	0.3(S)	mg/L	172	139	0.03	19.3	290	115
MAGNESIUM	35(G)	mg/L	174	148	0.18	107	660	102
BARIUM	1(S)	mg/L	127	123	0.04	1.57	32	33
ANTIMONY	0.003(G)	mg/L	127	16	0.001	0.005	0.02	7
THALLIUM	0.0005(G)	mg/L	127	6	0.002	0.002	0.004	6
SELENIUM	0.01(S)	mg/L	127	39	0.003	0.007	0.04	4
COPPER	0.2(S)	mg/L	127	38	0.001	0.02	0.27	1
ARSENIC	0.025(S)	mg/L	127	32	0.001	0.005	0.03	1
CYANIDE	0.2(S)	mg/L	96	23	0.002	0.02	0.24	1
CADMIUM	0.005(S)	mg/L	174	11	0.0001	0.001	0.006	1
MERCURY	0.0007(S)	mg/L	96	85	0.0000003	0.00001	0.0001	0
NICKEL	0.1(S)	mg/L	127	77	0.002	0.01	0.05	0
CHROMIUM	0.05(S)	mg/L	127	65	0.0008	0.006	0.04	0
ZINC	2(G)	mg/L	127	34	0.002	0.03	0.30	0
BORON	1(S)	mg/L	127	34	0.01	0.07	0.21	0
SILVER	0.05(S)	mg/L	127	28	0.0006	0.003	0.02	0
HEXAVALENT CHROMIUM	0.05(S)	mg/L	96	13	0.004	0.007	0.01	0
BERYLLIUM	0.003(G)	mg/L	127	12	0.0003	0.0007	0.003	0
LEAD	0.025(S)	mg/L	174	9	0.001	0.003	0.005	0
CALCIUM	NC	mg/L	174	173	65.0	2,579	18,000	NA
POTASSIUM	NC	mg/L	174	148	1.60	69.0	310	NA
ALUMINUM	NC	mg/L	127	60	0.02	0.52	4.20	NA
VANADIUM	NC	mg/L	127	52	0.0008	0.006	0.05	NA
COBALT	NC	mg/L	127	46	0.00064	0.004	0.03	NA
TIN	NC	mg/L	76	2	0.002	0.01	0.02	NA
Other Parameters								
CHLORIDE	250(S)	mg/L	174	174	50.0	7,488	61,000	159
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	174	157	0.03	5.24	36.0	104
BROMIDE	2(G)	mg/L	174	100	0.28	6.11	29.0	63
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	166	59	0.002	0.38	13.0	59
SULFATE	250(S)	mg/L	174	156	2.20	131	910	15
NITROGEN, NITRATE (AS N)	10(S)	mg/L	167	55	0.01	18.1	960	1
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	45	38	0.006	25.8	960	1
NITROGEN, NITRITE	1(S)	mg/L	111	21	0.001	0.008	0.03	0
HARDNESS (AS CACO3)	NC	mg/L	174	174	220	7,259	52,000	NA
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	173	173	300	13,805	100,000	NA
ALKALINITY, TOTAL	NC	mg/L	172	169	9.00	212	900	NA
CHEMICAL OXYGEN DEMAND	NC	mg/L	172	155	6.00	867	23,000	NA
TOTAL ORGANIC CARBON	NC	mg/L	172	141	0.48	3.97	25.0	NA
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	157	132	9.80	191	560	NA
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	173	100	0.13	15.5	460	NA
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	174	78	0.98	9.37	59.0	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	156	28	13.0	74.0	208	NA

NOTES:
NC = no applicable criteria; NA = not available as no applicable criteria.

Table 35
Honeywell
Wastebeds 9-15 Closure Investigation
Intermediate Native Groundwater
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
VOCs								
CHLOROBENZENE	5(S)	µg/L	35	20	19.0	101	329	20
1,4-DICHLOROBENZENE	3(S)	µg/L	35	20	2.70	37.1	93.4	18
1,2-DICHLOROBENZENE	3(S)	µg/L	35	20	1.10	22.6	85.7	16
BENZENE	1(S)	µg/L	35	17	0.28	3.26	8.10	12
1,2-DICHLOROETHANE	0.6(S)	µg/L	35	8	1.10	3.58	7.40	8
1,3-DICHLOROBENZENE	3(S)	µg/L	14	3	0.40	2.27	5.20	1
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	35	9	0.26	0.78	1.70	0
TRICHLOROETHENE	5(S)	µg/L	35	5	0.26	0.73	1.10	0
1,1-DICHLOROETHANE	5(S)	µg/L	35	4	0.32	0.43	0.51	0
ETHYLBENZENE	5(S)	µg/L	35	4	0.22	0.46	0.59	0
TOLUENE	5(S)	µg/L	35	4	0.35	0.41	0.46	0
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	35	4	1.10	1.35	1.60	0
VINYL CHLORIDE	2(S)	µg/L	35	4	1.10	1.33	1.50	0
TETRACHLOROETHENE	5(S)	µg/L	35	3	0.79	0.93	1.10	0
ACETONE	50(G)	µg/L	35	2	1.80	9.90	18.00	0
XYLENES, TOTAL	5(S)	µg/L	28	2	0.44	0.66	0.87	0
2-BUTANONE	50(G)	µg/L	35	1	1.50	1.50	1.50	0
2-HEXANONE	50(G)	µg/L	35	1	0.31	0.31	0.31	0
CHLOROFORM	7(S)	µg/L	35	1	0.37	0.37	0.37	0
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	35	1	0.15	0.15	0.15	0
O-XYLENE	5(S)	µg/L	7	1	0.68	0.68	0.68	0
XYLENES, M & P	5(S)	µg/L	7	1	0.52	0.52	0.52	0
HEXACHLOROBUTADIENE	0.5(S)	µg/L	1	1	0.48	0.48	0.48	0
SVOCs								
PHENOL	1(S)	µg/L	7	2	0.14	1.02	1.90	1
PHENANTHRENE	50(G)	µg/L	7	2	0.44	0.44	0.44	0
NAPHTHALENE	10(G)	µg/L	7	1	0.04	0.04	0.04	0
DI-N-BUTYL PHTHALATE	50(S)	µg/L	7	1	0.14	0.14	0.14	0
2-METHYLPHENOL	1(S)	µg/L	7	1	0.48	0.48	0.48	0
BUTYLBENZYL PHTHALATE	50(G)	µg/L	7	1	0.49	0.49	0.49	0
3&4-METHYLPHENOL	NC	µg/L	7	2	0.09	0.41	0.73	NA
2-METHYLNAPHTHALENE	NC	µg/L	7	1	0.03	0.03	0.03	NA
ACETOPHENONE	NC	µg/L	7	1	0.08	0.08	0.08	NA
High Resolution PCBs								
Total PCBs	90(S)	ng/L	7	7	0.52	1.17	2.59	0
Dioxins/Furans								
Total TEQ	0.7(S)	pg/L	7	5	0.0006	0.002	0.005	0
Inorganic Parameters								
SODIUM	20(S)	mg/L	56	56	57.0	2,240	9,200	56
MAGNESIUM	35(G)	mg/L	56	53	33.3	100.3	300	51
IRON	0.3(S)	mg/L	55	48	0.06	16.0	81.0	44
MANGANESE	0.3(S)	mg/l	56	54	0.06	2.61	16.0	42
BARIUM	1(S)	mg/L	44	42	0.02	1.36	10.0	11
SELENIUM	0.01(S)	mg/L	44	22	0.003	0.008	0.04	5
THALLIUM	0.0005(G)	mg/L	44	3	0.002	0.002	0.003	3
ANTIMONY	0.003(G)	mg/L	44	3	0.002	0.0034	0.004	2
CHROMIUM	0.05(S)	mg/L	44	28	0.0007	0.01	0.15	1
MERCURY	0.0007(S)	mg/L	35	30	0.0000004	0.000002	0.000005	0
NICKEL	0.1(S)	mg/L	44	21	0.001	0.01	0.09	0
BORON	1(S)	mg/l	44	18	0.023	0.108	0.62	0
COPPER	0.2(S)	mg/L	44	18	0.00	0.01	0.03	0
ZINC	2(G)	mg/L	44	17	0.002	0.03	0.21	0
ARSENIC	0.025(S)	mg/L	44	13	0.001	0.005	0.02	0
SILVER	0.05(S)	mg/L	44	9	0.001	0.003	0.007	0
CYANIDE	0.2(S)	mg/L	35	6	0.0019	0.013	0.03	0
LEAD	0.025(S)	mg/L	55	5	0.0008	0.0058	0.023	0
BERYLLIUM	0.003(G)	mg/L	44	4	0.0004	0.001	0.001	0
CADMIUM	0.005(S)	mg/L	56	4	0.001	0.00	0.00	0
HEXAVALENT CHROMIUM	0.05(S)	mg/L	35	3	0.003	0.007	0.01	0
CALCIUM	NC	mg/L	56	56	150	3,168	13,000	0
POTASSIUM	NC	mg/L	56	48	3.40	75.8	250	0
ALUMINUM	NC	mg/L	44	29	0.02	0.62	3.77	0
COBALT	NC	mg/L	44	21	0.0006	0.003	0.006	0
VANADIUM	NC	mg/L	44	18	0.0008	0.004	0.02	0
Other Parameters								
CHLORIDE	250(S)	mg/L	56	56	100	10,077	43,000	52
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	56	52	0.13	7.77	36.2	33
BROMIDE	2(G)	mg/L	56	33	0.66	7.09	44.0	26
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	56	14	0.007	0.07	0.39	14
SULFATE	250(S)	mg/L	56	53	4.40	181	1,200	6
NITROGEN, NITRATE (AS N)	10(S)	mg/L	49	13	0.007	0.59	1.20	0

Table 35
Honeywell
Wastebeds 9-15 Closure Investigation
Intermediate Native Groundwater
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
NITROGEN, NITRITE	1(S)	mg/L	37	7	0.001	0.02	0.03	0
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	14	6	0.0067	0.57	1.20	0
HARDNESS (AS CACO3)	NC	mg/L	56	56	570	8,218	37,000	NA
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	56	56	710	17,033	73,000	NA
ALKALINITY, TOTAL	NC	mg/L	55	54	27.0	127	280	NA
CHEMICAL OXYGEN DEMAND	NC	mg/L	56	54	6.60	1,592	16,000	NA
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	49	48	27.0	125	280	NA
TOTAL ORGANIC CARBON	NC	mg/L	56	38	0.44	1.78	6.00	NA
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	56	38	0.26	20.4	232	NA
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	56	22	0.81	4.50	16.5	NA

NOTES:
NC = no applicable criteria; NA = not available as no applicable criteria.

Table 36
Honeywell
Wastebeds 9-15 Closure Investigation
Deep Native Groundwater
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
VOCs								
CHLOROBENZENE	5(S)	µg/L	40	20	2.40	89.7	402	17
1,2-DICHLOROBENZENE	3(S)	µg/L	40	18	0.25	23.33	64.9	12
1,4-DICHLOROBENZENE	3(S)	µg/L	40	18	0.44	18.9	54.6	12
BENZENE	1(S)	µg/L	40	18	0.24	6.3	13.6	12
1,2-DICHLOROETHANE	0.6(S)	µg/L	40	9	0.37	6.67	10.2	8
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	40	9	0.25	8.94	21.0	4
1,1-DICHLOROETHANE	5(S)	µg/L	40	4	7.20	7.35	7.60	4
ACETONE	50(G)	µg/L	40	4	2.00	78.3	250	2
TRICHLOROETHENE	5(S)	µg/L	40	9	0.23	0.62	1.30	0
TOLUENE	5(S)	µg/L	40	8	0.16	0.70	3.90	0
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	40	6	0.61	0.94	1.20	0
1,1-DICHLOROETHENE	5(S)	µg/L	40	4	1.80	2.05	2.30	0
1,3-DICHLOROBENZENE	3(S)	µg/L	22	2	0.41	0.67	0.92	0
2-BUTANONE	50(G)	µg/L	40	2	0.92	17.96	35.00	0
CHLOROFORM	7(S)	µg/L	40	2	0.23	0.5	0.8	0
2-HEXANONE	50(G)	µg/L	40	1	2.00	2.00	2.00	0
CARBON DISULFIDE	60(G)	µg/L	40	1	0.25	0.25	0.25	0
METHYL TERT-BUTYL ETHER	10(G)	µg/L	1	1	1.50	1.50	1.50	0
METHYLENE CHLORIDE	5(S)	µg/L	40	1	1.50	1.50	1.50	0
4-METHYL-2-PENTANONE	NC	µg/L	40	3	1.40	3.30	6.60	NA
SVOCs								
PHENOL	1(S)	µg/L	16	2	23.0	40.0	57.0	2
DI-N-BUTYL PHTHALATE	50(S)	µg/L	16	3	0.12	0.17	0.27	0
PHENANTHRENE	50(G)	µg/L	16	2	0.44	0.44	0.44	0
2-METHYLPHENOL	1(S)	µg/L	16	1	0.10	0.10	0.10	0
BUTYLBENZYL PHTHALATE	50(G)	µg/L	16	1	0.60	0.60	0.60	0
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	16	1	1.20	1.20	1.20	0
3&4-METHYLPHENOL	NC	µg/L	16	4	0.10	1.04	3.30	NA
ACETOPHENONE	NC	µg/L	16	1	1.40	1.40	1.40	NA
BENZOIC ACID	NC	µg/L	1	1	3.80	3.80	3.80	NA
Pesticides								
4,4'-DDD	0.3(S)	µg/L	16	1	0.0008	0.0008	0.0008	0
High Resolution PCBs								
Total PCBs	90(S)	ng/L	16	16	0.43	1.69	5.47	0
Dioxins/Furans								
Total TEQ	0.7(S)	pg/L	16	9	0.0005	0.06	0.38	0
Inoganic Parameters								
SODIUM	20(S)	mg/L	86	82	35.0	7,676	31,000	82
IRON	0.3(S)	mg/L	86	81	0.17	37.1	140	79
MAGNESIUM	35(G)	mg/L	86	80	0.99	204	854	76
MANGANESE	0.3(S)	mg/l	86	79	0.009	3.17	11.0	70
BARIUM	1(S)	mg/L	55	53	0.01	4.48	40.0	19
SELENIUM	0.01(S)	mg/L	55	16	0.003	0.02	0.07	9
ANTIMONY	0.003(G)	mg/L	55	7	0.001	0.005	0.02	4
THALLIUM	0.0005(G)	mg/L	55	3	0.009	0.03	0.05	3
BORON	1(S)	mg/l	55	24	0.05	0.34	3.00	2
CHROMIUM	0.05(S)	mg/L	54	30	0.001	0.13	3.70	1
NICKEL	0.1(S)	mg/L	55	28	0.0031	0.11	2.80	1
LEAD	0.025(S)	mg/L	86	6	0.0008	0.008	0.04	1
MERCURY	0.0007(S)	mg/L	40	35	0.0000002	0.000003	0.00002	0
ZINC	2(G)	mg/L	54	25	0.002	0.08	0.44	0
COPPER	0.2(S)	mg/L	55	21	0.004	0.04	0.19	0
ARSENIC	0.025(S)	mg/L	55	17	0.001	0.007	0.02	0
CYANIDE	0.2(S)	mg/L	40	13	0.002	0.03	0.11	0
CADMIUM	0.005(S)	mg/L	86	12	0.001	0.001	0.003	0
HEXAVALENT CHROMIUM	0.05(S)	mg/l	30	9	0.006	0.009	0.02	0
BERYLLIUM	0.003(G)	mg/L	55	8	0.0008	0.001	0.002	0
SILVER	0.05(S)	mg/L	54	8	0.002	0.007	0.02	0
CALCIUM	NC	mg/L	86	85	130	8,787	22,000	NA
POTASSIUM	NC	mg/L	86	72	3.10	202	3,800	NA
VANADIUM	NC	mg/L	55	24	0.0008	0.01	0.04	NA
ALUMINUM	NC	mg/L	55	23	0.10	1.17	12.0	NA
COBALT	NC	mg/L	55	21	0.00063	0.008	0.05	NA
TIN	NC	mg/L	37	7	0.002	0.004	0.01	NA
Other Parameters								
CHLORIDE	250	mg/L	86	86	76.0	28,877	73,000	78
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	86	85	0.12	11.6	40.4	66
BROMIDE	2(G)	mg/L	86	44	0.43	20.3	96.0	38
SULFATE	250	mg/L	85	75	10.6	372	1,400	31
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	81	26	0.008	0.09	0.49	26
NITROGEN, NITRATE (AS N)	10(S)	mg/L	76	5	0.01	0.13	0.50	0

Table 36
Honeywell
Wastebeds 9-15 Closure Investigation
Deep Native Groundwater
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	10	3	0.010	0.02	0.03	0
NITROGEN, NITRITE	1(S)	mg/L	52	3	0.00	0.02	0.05	0
HARDNESS (AS CACO3)	NC	mg/L	86	86	480	24,230	56,000	NA
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	86	86	650	49,499	140,000	NA
CHEMICAL OXYGEN DEMAND	NC	mg/L	85	83	12.0	2,951	69,000	NA
ALKALINITY, TOTAL	NC	mg/L	81	81	11.0	111	910	NA
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	76	75	7.30	99.0	300	NA
TOTAL ORGANIC CARBON	NC	mg/L	78	59	0.24	1.59	15.0	NA
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	84	58	0.48	23.8	271	NA
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	85	34	0.88	4.34	29.0	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	79	4	10.0	36.5	84.0	NA

NOTES:
NC = no applicable criteria; NA = not available as no applicable criteria.

Table 37
Honeywell
Wastebeds 9-15 Closure Investigation
Bedrock Groundwater
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
VOCs								
BENZENE	1(S)	µg/L	37	4	0.35	2.34	5.50	3
CHLOROBENZENE	5(S)	µg/L	37	2	0.20	8.60	17.0	1
CARBON DISULFIDE	60(G)	µg/L	37	7	0.24	0.39	0.81	0
CHLOROMETHANE	5(S)	µg/L	37	6	0.26	0.52	0.76	0
ACETONE	50(G)	µg/L	37	5	2.60	5.34	8.20	0
TOLUENE	5(S)	µg/L	37	4	0.24	0.29	0.40	0
1,4-DICHLOROBENZENE	3(S)	µg/L	37	2	0.30	1.45	2.60	0
TRICHLOROETHENE	5(S)	µg/L	37	1	0.20	0.20	0.20	0
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	37	1	0.27	0.27	0.27	0
2-BUTANONE	50(G)	µg/L	37	1	1.20	1.20	1.20	0
1,2-DICHLOROBENZENE	3(S)	µg/L	37	1	2.50	2.50	2.50	0
SVOCs								
BENZO(A)ANTHRACENE	0.002(G)	µg/L	9	1	0.02	0.02	0.02	1
CHRYSENE	0.002(G)	µg/L	9	1	0.03	0.03	0.03	1
PHENANTHRENE	50(G)	µg/L	9	5	0.05	0.37	0.45	0
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	9	2	1.30	2.20	3.10	0
PYRENE	50(G)	µg/L	9	1	0.04	0.04	0.04	0
FLUORANTHENE	50(G)	µg/L	9	1	0.06	0.06	0.06	0
BUTYLBENZYL PHTHALATE	50(G)	µg/L	9	1	0.47	0.47	0.47	0
DI-N-OCTYL PHTHALATE	50(G)	µg/L	9	1	0.84	0.84	0.84	0
BENZYL ALCOHOL	NC	µg/L	9	1	1.60	1.60	1.60	NA
Pesticides								
4,4'-DDD	0.3(S)	µg/L	9	1	0.001	0.001	0.001	0
ENDRIN	NC	µg/L	9	1	0.001	0.001	0.001	NA
High Resolution PCBs								
Total PCBs	90(S)	ng/L	9	9	0.38	1.71	4.86	0
Dioxins/Furans								
Total TEQ	0.7(S)	pg/L	9	9	0.0007	0.002	0.005	0
Inorganic Parameters								
SODIUM	20(S)	mg/L	64	64	72.0	24,419	86,000	64
IRON	0.3(S)	mg/L	64	61	0.19	17	110	60
MAGNESIUM	35(G)	mg/L	64	61	8.10	898	4,000	58
MANGANESE	0.3(S)	mg/L	64	63	0.09	5.61	27.0	55
BORON	1(S)	mg/L	48	35	0.10	3.63	24.0	30
SELENIUM	0.01(S)	mg/L	48	20	0.003	0.08	0.25	17
ANTIMONY	0.003(G)	mg/L	48	6	0.007	0.04	0.13	6
CHROMIUM	0.05(S)	mg/L	48	24	0.0007	0.05	0.22	5
ARSENIC	0.025(S)	mg/L	48	8	0.007	0.02	0.03	5
CADMIUM	0.005(S)	mg/L	64	5	0.002	0.008	0.01	4
COPPER	0.2(S)	mg/L	48	24	0.002	0.09	0.48	2
NICKEL	0.1(S)	mg/L	48	20	0.002	0.04	0.24	2
LEAD	0.025(S)	mg/L	64	4	0.01	0.06	0.13	2
THALLIUM	0.0005(G)	mg/L	48	2	0.02	0.04	0.07	2
SILVER	0.05(S)	mg/L	48	13	0.0007	0.02	0.05	1
BARIUM	1(S)	mg/L	48	39	0.0047	0.10	0.30	0
MERCURY	0.0007(S)	mg/L	37	27	0.0000004	0.000002	0.00001	0
ZINC	2(G)	mg/L	48	17	0.009	0.08	0.30	0
CYANIDE	0.2(S)	mg/L	37	9	0.002	0.03	0.17	0
HEXAVALENT CHROMIUM	0.05(S)	mg/L	37	3	0.006	0.009	0.01	0
CALCIUM	NC	mg/L	64	64	70.0	5,438	20,000	NA
POTASSIUM	NC	mg/L	64	58	7.50	779	3,900	NA
VANADIUM	NC	mg/L	48	24	0.0009	0.03	0.06	NA
ALUMINUM	NC	mg/L	48	15	0.02	0.97	2.04	NA
COBALT	NC	mg/L	48	14	0.0005	0.01	0.02	NA
TIN	NC	mg/L	27	3	0.02	0.03	0.03	NA
Other Parameters								
SULFATE	250(S)	mg/L	64	64	48.0	1,748	4,500	60
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	64	63	0.78	28.7	190	59
CHLORIDE	250(S)	mg/L	64	64	89.0	55,701	140,000	57
BROMIDE	2(G)	mg/L	64	47	0.90	269	940	46
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	63	27	0.007	0.11	0.51	27
NITROGEN, NITRITE	1(S)	mg/L	41	3	0.008	0.47	1.40	1
NITROGEN, NITRATE (AS N)	10(S)	mg/L	57	14	0.007	0.43	4.60	0
NITROGEN, NITRATE-NITRITE	10(S)	mg/L	15	11	0.007	0.05	0.25	0
CHEMICAL OXYGEN DEMAND	NC	mg/L	64	64	5.30	5,963	79,000	NA
HARDNESS (AS CACO3)	NC	mg/L	64	64	210	19,070	68,000	NA
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	64	64	430	89,619	230,000	NA
ALKALINITY, TOTAL	NC	mg/L	64	60	7.80	83.3	290	NA
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	57	52	7.80	87.1	290	NA
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	64	50	1.70	37.4	229	NA
TOTAL ORGANIC CARBON	NC	mg/L	64	26	0.20	1.67	6.10	NA
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	64	22	0.84	5.33	20.0	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	57	1	37.0	37.0	37.0	NA

NOTES:
NC = no applicable criteria; NA = not available as no applicable criteria.

Table 38
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	0.65J	0.79J	0.50J	0.48J	0.58J	0.47J	2.5UJ
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5UJ
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
1,2-DICHLOROBENZENE	3(S)	µg/L	[6.2]	[6.6]	[4.8]	[4.4]	[4.3]	[3.9]	[3.4J]
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U	2.5U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
1,3-DICHLOROBENZENE	3(S)	µg/L	0.34J	0.33J	0.26J	0.26J	0.26J	0.23J	2.5U
1,3-DICHLOROPROPANE	NC	µg/L	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U	2.5U
1,4-DICHLOROBENZENE	3(S)	µg/L	[7.4]	[7.9]	[5.5]	[4.8]	[4.6]	[4.2]	[3.3]
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
2-BUTANONE	50(G)	µg/L	2.5J	2.5J	1.8J	2.6J	3.0J	3.8J	9.4J
2-HEXANONE	50(G)	µg/L	5.0UJ	5.0UJ	5.0U	5.0U	5.0U	5.0U	13U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U	2.5U
4-METHYL-2-PENTANONE	NC	µg/L	5.0UJ	5.0UJ	5.0U	5.0U	5.0UJ	5.0U	13U
ACETONE	50(G)	µg/L	11J	9.7J	20	34	38	47	[100J]
ACETONITRILE	NC	µg/L	20UJ	20UJ	20U	20U	20U	7.0J	50U
ACROLEIN	NC	µg/L	20U	20U	20U	20U	20UJ	20U	50UJ
ACRYLONITRILE	NC	µg/L	20UJ	20UJ	20UJ	20UJ	20UJ	20UJ	50U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
BENZENE	1(S)	µg/L	[32]	[30]	[35]	[32]	[28]	[25]	[18]
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
BROMOFORM	50(G)	µg/L	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U	2.5U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 38
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose	Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
BROMOMETHANE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
CARBON DISULFIDE	60(G)		µg/L	0.65J	0.25J	1.0U	1.0U	1.0U	1.0U	2.5U
CARBON TETRACHLORIDE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
CHLOROBENZENE	5(S)		µg/L	[17]	[17]	[12]	[9.9]	[8.5]	[7.9]	[6.6]
CHLOROETHANE	5(S)		µg/L	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U	2.5U
CHLOROFORM	7(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
CHLOROMETHANE	5(S)		µg/L	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U	2.5UJ
CHLOROPRENE	NC		µg/L	1.0UJ	1.0UJ	1.0U	1.0UJ	1.0UJ	1.0UJ	2.5U
CIS-1,2-DICHLOROETHENE	5(G)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
CIS-1,3-DICHLOROPROPENE	0.4(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
Dibromochloromethane	50(G)		µg/L	1.0UJ	1.0UJ	1.0U	1.0U	1.0U	1.0U	2.5U
DIBROMOMETHANE	NC		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
DICHLORODIFLUOROMETHANE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5UJ
ETHYL CYANIDE	NC		µg/L	2.0UJ	2.0UJ	2.0UJ	2.0UJ	2.0UJ	2.0UJ	5.0U
ETHYL METHACRYLATE	NC		µg/L	1.0R	1.0R	1.0U	1.0U	1.0UJ	1.0U	2.5U
ETHYLBENZENE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
IODOMETHANE	NC		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5UJ
ISOBUTANOL	NC		µg/L	40R	40R	40R	40R	5.1J	40R	100R
METHYL METHACRYLATE	NC		µg/L	1.0R	1.0R	1.0UJ	1.0UJ	1.0UJ	1.0UJ	2.5UJ
METHYLENE CHLORIDE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
STYRENE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
TETRACHLOROETHENE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
TOLUENE	5(S)		µg/L	3.5	3.5	4.2	4.1	3.8	3.4	2.6
TRANS-1,2-DICHLOROETHENE	5(G)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
TRANS-1,3-DICHLOROPROPENE	0.4(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
TRANS-1,4-DICHLORO-2-BUTENE	NC		µg/L	1.0R	1.0R	1.0U	1.0UJ	1.0U	1.0UJ	2.5U
TRICHLOROETHENE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
TRICHLOROFLUOROMETHANE	5(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5UJ
VINYL ACETATE	NC		µg/L	1.0R	1.0R	1.0UJ	1.0U	1.0U	1.0U	2.5U
VINYL CHLORIDE	2(S)		µg/L	1.0U	1.0U	1.0U	1.0U	1.0U	1.0U	2.5U
XYLENES, TOTAL	5(S)		µg/L	0.81J	0.91J	3.0U	3.0U	0.63J	3.0U	7.5U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 38
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	0.35J	3.0UJ	0.29J	4.0U	1.0U	0.35J	1.0UJ
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	3.0UJ	1.0U	4.0U	1.0U	1.0U	1.0UJ
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	[3.4]	[3.1J]	2.6	2.1J	0.76J	1.8	1.3J
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U	3.0U	1.0U	4.0UJ	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	3.0U	1.0U	4.0UJ	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	0.21J	3.0U	0.19J	4.0U	1.0U	0.12J	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	[3.5]	[3.0]	2.9	2.4J	0.77J	1.9	1.5
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	11	11J	12	12J	9	8.5	6.6
2-HEXANONE	50(G)	µg/L	0.41J	15U	0.36J	20UJ	0.28J	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	3.0U	1.0U	4.0UJ	1.0U	1.0U	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	0.71J	15U	0.75J	20UJ	0.63J	0.58J	5.0U
ACETONE	50(G)	µg/L	[110]	[140J]	[140]	[150J]	[64]	[82]	[65J]
ACETONITRILE	NC	µg/L	20U	60U	20U	80UJ	20U	20U	20U
ACROLEIN	NC	µg/L	20U	60UJ	60U	80U	20UJ	20UJ	20UJ
ACRYLONITRILE	NC	µg/L	20UJ	60U	20UJ	80UJ	20UJ	20UJ	20U
ALLYL CHLORIDE	NC	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	[21]	[16]	[19]	[17]	[6.1]	[13]	[8.7]
BROMOCHLOROMETHANE	NC	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0U	3.0U	1.0U	4.0UJ	1.0U	1.0U	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 38
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
BROMOMETHANE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
CARBON DISULFIDE	60(G)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[7.1]	[5.4]	[6.0]	[5.1]	1.6	4	2.9
CHLOROETHANE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0UJ	1.0U	1.0U	1.0U
CHLOROFORM	7(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	3.0UJ	1.0U	4.0UJ	1.0U	1.0U	1.0UJ
CHLOROPRENE	NC	µg/L	1.0UJ	3.0U	1.0UJ	4.0UJ	1.0UJ	1.0UJ	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	3.0U	1.0U	4.0UJ	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U	3.0UJ	1.0U	4.0U	1.0U	1.0U	1.0UJ
ETHYL CYANIDE	NC	µg/L	2.0UJ	6.0U	2.0UJ	8.0UJ	2.0UJ	2.0UJ	2.0U
ETHYL METHACRYLATE	NC	µg/L	1.0U	3.0U	1.0U	4.0R	1.0UJ	1.0UJ	1.0U
ETHYLBENZENE	5(S)	µg/L	1.0U	3.0U	3.0U	4.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	3.0UJ	1.0U	4.0U	1.0U	1.0U	1.0UJ
ISOBUTANOL	NC	µg/L	100R	120R	120R	160R	6.7J	40R	40R
METHYL METHACRYLATE	NC	µg/L	1.0UJ	3.0UJ	1.0UJ	4.0R	1.0UJ	1.0UJ	1.0UJ
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	2.9	2.1J	2.3	1.9J	0.53J	1.3	1.1
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0UJ	3.0U	1.0UJ	4.0R	1.0U	1.0U	1.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	3.0UJ	1.0U	4.0U	1.0U	1.0U	1.0UJ
VINYL ACETATE	NC	µg/L	1.0U	3.0U	1.0U	4.0R	1.0U	1.0U	1.0U
VINYL CHLORIDE	2(S)	µg/L	1.0U	3.0U	1.0U	4.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U	9.0U	3.0U	12U	3.0U	3.0U	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 38
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0UJ	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U	1.0U	1.0UJ	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	[11]	[11]	0.63J	1
1,2-DICHLOROETHANE	0.6(S)	µg/L	0.35J	0.38J	1.0U	1.0UJ
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	0.16J	0.13J	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0UJ
1,4-DICHLOROBENZENE	3(S)	µg/L	[15]	[17]	0.65J	0.31J
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U
2-BUTANONE	50(G)	µg/L	2.2J	2.7J	7.7	1.2J
2-HEXANONE	50(G)	µg/L	5.0U	5.0U	0.89J	5.0UJ
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	1.0U	1.0U	1.0UJ
4-METHYL-2-PENTANONE	NC	µg/L	0.83J	0.74J	0.92J	5.0UJ
ACETONE	50(G)	µg/L	18	18	33J	7.9J
ACETONITRILE	NC	µg/L	20U	20U	20U	20UJ
ACROLEIN	NC	µg/L	20UJ	20U	20UJ	20U
ACRYLONITRILE	NC	µg/L	20U	20UJ	20U	20UJ
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U
BENZENE	1(S)	µg/L	[38]	[62]	0.60J	[3.4]
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U	1.0U	1.0U	1.0U
BROMOFORM	50(G)	µg/L	1.0U	1.0U	1.0U	1.0UJ

NOTES:

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Table 38
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
BROMOMETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
CARBON DISULFIDE	60(G)	µg/L	1.0U	1.0U	0.28J	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	[38]	[44]	1.2	0.48J
CHLOROETHANE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0UJ
CHLOROFORM	7(S)	µg/L	1.0U	1.0U	1.0U	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0UJ	1.0UJ
CHLOROPRENE	NC	µg/L	1.0UJ	1.0UJ	1.0U	1.0UJ
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U	1.0U	1.0U	1.0UJ
DIBROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	2.0U	1.0U	1.0UJ	1.0U
ETHYL CYANIDE	NC	µg/L	2.0UJ	2.0UJ	0.54J	2.0UJ
ETHYL METHACRYLATE	NC	µg/L	1.0UJ	1.0U	1.0U	1.0R
ETHYLBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	1.0UJ	1.0U
ISOBUTANOL	NC	µg/L	40R	40R	28J	40R
METHYL METHACRYLATE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0R
METHYLENE CHLORIDE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
STYRENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
TOLUENE	5(S)	µg/L	[7.2]	[9.3]	0.49J	0.34J
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U	1.0UJ	1.0U	1.0R
TRICHLOROETHENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U	1.0U	1.0UJ	1.0U
VINYL ACETATE	NC	µg/L	1.0U	1.0U	1.0U	1.0R
VINYL CHLORIDE	2(S)	µg/L	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	5(S)	µg/L	2.0J	2.2J	3.0U	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	98U	95U	95U	95U	96U	95U	98U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	20UJ	19UJ	19UJ	19UJ	19UJ	19UJ	20UJ
1,3,5-TRINITROBENZENE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
1,3-DINITROBENZENE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
1,4-NAPHTHOQUINONE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
2,4-DICHLOROPHENOL	1(S)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
2,4-DIMETHYLPHENOL	50(G)	µg/L	20U	19U	19U	19U	19U	19U	20U
2,4-DINITROPHENOL	10(G)	µg/L	98U	95U	95U	95U	96U	95U	98U
2,4-DINITROTOLUENE	5(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
2,6-DICHLOROPHENOL	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
2,6-DINITROTOLUENE	5(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
2-ACETYLAMINOFLUORENE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
2-CHLORONAPHTHALENE	10(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
2-CHLOROPHENOL	1(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
2-METHYLNAPHTHALENE	NC	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
2-METHYLPHENOL	1(S)	µg/L	20U	[1.7J]	19U	19U	19U	19U	20U
2-NAPHTHYLAMINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
2-NITROANILINE	5(S)	µg/L	98U	95U	95U	95U	96U	95U	98U
2-NITROPHENOL	1(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
3&4-METHYLPHENOL	NC	µg/L	20U	1.7J	19U	19U	1.8J	1.9J	20U
3,3'-DICHLOROBENZIDINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
3-METHYLCHOLANTHRENE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
3-NITROANILINE	5(S)	µg/L	98U	95U	95U	95U	96U	95U	98U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	98U	95U	95U	95U	96U	95U	98U
4-AMINOBIPHENYL	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	20U	19U	19U	19U	19U	19U	20U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
4-CHLOROANILINE	5(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
4-NITROANILINE	5(S)	µg/L	98U	95U	95U	95U	96U	95U	98U
4-NITROPHENOL	1(S)	µg/L	98U	95U	95U	95U	96U	95U	98U
5-NITRO-O-TOLUIDINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	20UJ	19UJ	19UJ	19UJ	19UJ	19UJ	20UJ
ACENAPHTHENE	20(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
ACENAPHTHYLENE	NC	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
ACETOPHENONE	NC	µg/L	20U	19U	19U	19U	19U	1.7J	20U
ALPHA-NAPHTHYLAMINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
ANTHRACENE	50(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
CHLOROBENZILATE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
BENZO(A)PYRENE	NC	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
BENZO(G,H,I)PERYLENE	NC	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
BENZYL ALCOHOL	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	39U	38U	38U	38U	38U	38U	39U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	20U	19U	19U	19U	19U	19U	20U
DIALLATE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
CHRYSENE	0.002(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
DIBENZOFURAN	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
DIETHYL PHTHALATE	50(G)	µg/L	20U	19U	19U	19U	19U	19U	20U
DIMETHYL PHTHALATE	50(G)	µg/L	20U	19U	19U	19U	19U	19U	20U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	20U	19U	19U	19U	19U	19U	20U

NOTES:

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Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
FLUORENE	50(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	20R	19R	19R	19R	19R	19R	20R
HEXACHLOROETHANE	5(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
HEXACHLOROPROPENE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
ISODRIN	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
ISOPHORONE	50(G)	µg/L	20U	19U	19U	19U	19U	19U	20U
ISOSAFROLE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
KEPONE	NC	µg/L	78U	76U	76U	76U	77U	76U	78U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
METHAPYRILENE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
METHYL METHANESULFONATE	NC	µg/L	20UJ	19UJ	19UJ	19UJ	19UJ	19UJ	20UJ
NAPHTHALENE	10(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
NITROBENZENE	0.4(S)	µg/L	39U	38U	38U	38U	38U	38U	39U
N-NITROSODIETHYLAMINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
N-NITROSODIMETHYLAMINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	20U	19U	19U	19U	19U	19U	20U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
N-NITROSOPIPERIDINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
N-NITROSOPYRROLIDINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
O-TOLUIDINE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
PENTACHLOROBENZENE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
PENTACHLORONITROBENZENE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
PENTACHLOROPHENOL	1(S)	µg/L	20U	19U	19U	19U	19U	19U	20U
PHENACETIN	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
PHENANTHRENE	50(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
PHENOL	1(S)	µg/L	[310]	[350]	[120]	[190]	[230]	[260]	[220]
P-PHENYLENEDIAMINE	NC	µg/L	390UJ	380UJ	380UJ	380UJ	380UJ	380UJ	390UJ
PRONAMIDE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U
PYRENE	50(G)	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U	3.8U	3.9U
SAFROLE	NC	µg/L	20U	19U	19U	19U	19U	19U	20U

NOTES:

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Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	95U	97U	96U	95U	96U	95U	24U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	19UJ	19UJ	19UJ	19UJ	19UJ	19UJ	4.8UJ
1,3,5-TRINITROBENZENE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
1,3-DINITROBENZENE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8UJ
1,4-NAPHTHOQUINONE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
2,4-DICHLOROPHENOL	1(S)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
2,4-DIMETHYLPHENOL	50(G)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
2,4-DINITROPHENOL	10(G)	µg/L	95U	97U	96U	95U	96U	95U	24U
2,4-DINITROTOLUENE	5(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
2,6-DICHLOROPHENOL	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
2,6-DINITROTOLUENE	5(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
2-ACETYLAMINOFLUORENE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
2-CHLORONAPHTHALENE	10(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
2-CHLOROPHENOL	1(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
2-METHYLNAPHTHALENE	NC	µg/L	0.33J	0.33J	0.38J	0.72J	0.34J	3.8U	0.27J
2-METHYLPHENOL	1(S)	µg/L	19U	19U	19U	19U	19U	19U	0.77J
2-NAPHTHYLAMINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
2-NITROANILINE	5(S)	µg/L	95U	97U	96U	95U	96U	95U	24U
2-NITROPHENOL	1(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
3&4-METHYLPHENOL	NC	µg/L	19U	1.8J	19U	19U	4.8J	4.1J	4.3J
3,3'-DICHLOROBENZIDINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
3-METHYLCHOLANTHRENE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
3-NITROANILINE	5(S)	µg/L	95U	97U	96U	95U	96U	95U	24U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	95U	97U	96U	95U	96U	95U	24U
4-AMINOBIPHENYL	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U

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Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
4-CHLOROANILINE	5(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
4-NITROANILINE	5(S)	µg/L	95U	97U	96U	95U	96U	95U	24U
4-NITROPHENOL	1(S)	µg/L	95U	97U	96U	95U	96U	95U	24U
5-NITRO-O-TOLUIDINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	19UJ	19UJ	19UJ	19UJ	19UJ	19UJ	4.8UJ
ACENAPHTHENE	20(G)	µg/L	0.38J	0.52J	0.45J	0.84J	3.8U	3.8U	0.34J
ACENAPHTHYLENE	NC	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
ACETOPHENONE	NC	µg/L	2.6J	4.6J	2.3J	5.2J	1.8J	2.1J	2.7J
ALPHA-NAPHTHYLAMINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
ANTHRACENE	50(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
CHLOROBENZILATE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
BENZO(A)PYRENE	NC	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
BENZO(G,H,I)PERYLENE	NC	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
BENZYL ALCOHOL	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	38U	39U	38U	38U	38U	38U	9.5U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
DIALLATE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
CHRYSENE	0.002(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
DIBENZOFURAN	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
DIETHYL PHTHALATE	50(G)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
DIMETHYL PHTHALATE	50(G)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	19U	19U	19U	19U	19U	19U	4.8U

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.088J
FLUORENE	50(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	19R	19R	19R	19R	19R	19R	4.8R
HEXACHLOROETHANE	5(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
HEXACHLOROPROPENE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
ISODRIN	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
ISOPHORONE	50(G)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
ISOSAFROLE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
KEPONE	NC	µg/L	76U	78U	77U	76U	77U	76U	19U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
METHAPYRILENE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
METHYL METHANESULFONATE	NC	µg/L	19UJ	19UJ	19UJ	19UJ	19UJ	19UJ	4.8UJ
NAPHTHALENE	10(G)	µg/L	0.89J	1.2J	1.6J	3.0J	1.2J	1.4J	1.1
NITROBENZENE	0.4(S)	µg/L	38U	39U	38U	38U	38U	38U	9.5U
N-NITROSODIETHYLAMINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
N-NITROSODIMETHYLAMINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.95U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
N-NITROSOPIPERIDINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
N-NITROSOPYRROLIDINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
O-TOLUIDINE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
PENTACHLOROBENZENE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
PENTACHLORONITROBENZENE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
PENTACHLOROPHENOL	1(S)	µg/L	19U	19U	19U	19U	19U	19U	4.8U
PHENACETIN	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
PHENANTHRENE	50(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.34J

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
PHENOL	1(S)	µg/L	[180]	[200J]	[120]	[160]	[97]	[100]	[90]
P-PHENYLENEDIAMINE	NC	µg/L	380UJ	390UJ	380UJ	380UJ	380UJ	380UJ	95UJ
PRONAMIDE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U
PYRENE	50(G)	µg/L	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U	0.095J
SAFROLE	NC	µg/L	19U	19U	19U	19U	19U	19U	4.8U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	96U	95U	96U	4.8U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	19UJ	19UJ	19UJ	0.95UJ
1,3,5-TRINITROBENZENE	NC	µg/L	19U	19U	19U	0.95U
1,3-DINITROBENZENE	NC	µg/L	19U	19U	19U	0.95UJ
1,4-NAPHTHOQUINONE	NC	µg/L	19U	19U	19U	0.95U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	3.8U	3.8U	3.8U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	19U	19U	19U	0.95U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	19U	19U	19U	0.95U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	19U	19U	19U	0.95U
2,4-DICHLOROPHENOL	1(S)	µg/L	3.8U	3.8U	3.8U	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	19U	19U	19U	0.95U
2,4-DINITROPHENOL	10(G)	µg/L	96U	95U	96U	4.8U
2,4-DINITROTOLUENE	5(S)	µg/L	19U	19U	19U	0.95U
2,6-DICHLOROPHENOL	NC	µg/L	19U	19U	19U	0.95U
2,6-DINITROTOLUENE	5(S)	µg/L	19U	19U	19U	0.95U
2-ACETYLAMINOFLUORENE	NC	µg/L	19U	19U	19U	0.95U
2-CHLORONAPHTHALENE	10(G)	µg/L	3.8U	3.8U	3.8U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	19U	19U	19U	0.95U
2-METHYLNAPHTHALENE	NC	µg/L	3.8U	3.8U	3.8U	0.024J
2-METHYLPHENOL	1(S)	µg/L	19U	19U	19U	0.13J
2-NAPHTHYLAMINE	NC	µg/L	19U	19U	19U	0.95U
2-NITROANILINE	5(S)	µg/L	96U	95U	96U	4.8U
2-NITROPHENOL	1(S)	µg/L	19U	19U	19U	0.95U
3&4-METHYLPHENOL	NC	µg/L	4.9J	5.3J	130	0.55J
3,3'-DICHLOROBENZIDINE	NC	µg/L	19U	19U	19U	0.95U
3-METHYLCHOLANTHRENE	NC	µg/L	19U	19U	19U	0.95U
3-NITROANILINE	5(S)	µg/L	96U	95U	96U	4.8U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	96U	95U	96U	4.8U
4-AMINOBIPHENYL	NC	µg/L	19U	19U	19U	0.95U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	19U	19U	19U	0.95U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	19U	19U	19U	0.95U
4-CHLOROANILINE	5(S)	µg/L	19U	19U	19U	0.95U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	19U	19U	19U	0.95U
4-NITROANILINE	5(S)	µg/L	96U	95U	96U	4.8U
4-NITROPHENOL	1(S)	µg/L	96U	95U	96U	4.8U
5-NITRO-O-TOLUIDINE	NC	µg/L	19U	19U	19U	0.95U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	19UJ	19UJ	19UJ	0.95UJ
ACENAPHTHENE	20(G)	µg/L	3.8U	3.8U	3.8U	0.19U
ACENAPHTHYLENE	NC	µg/L	3.8U	3.8U	3.8U	0.19U
ACETOPHENONE	NC	µg/L	2.3J	2.4J	19U	0.15J
ALPHA-NAPHTHYLAMINE	NC	µg/L	19U	19U	19U	0.95U
ANTHRACENE	50(G)	µg/L	3.8U	3.8U	3.8U	0.19U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	19U	19U	19U	0.95U
CHLOROBENZILATE	NC	µg/L	19U	19U	19U	0.95U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	3.8U	3.8U	3.8U	0.19U
BENZO(A)PYRENE	NC	µg/L	3.8U	3.8U	3.8U	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	3.8U	3.8U	3.8U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	3.8U	3.8U	3.8U	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	3.8U	3.8U	3.8U	0.19U
BENZYL ALCOHOL	NC	µg/L	19U	19U	19U	0.95U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	19U	19U	19U	0.95U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	3.8U	3.8U	3.8U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	38U	38U	38U	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	19U	19U	19U	0.95U
DIALLATE	NC	µg/L	19U	19U	19U	0.95U
CHRYSENE	0.002(G)	µg/L	3.8U	3.8U	3.8U	0.19U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	3.8U	3.8U	3.8U	0.19U
DIBENZOFURAN	NC	µg/L	19U	19U	19U	0.95U
DIETHYL PHTHALATE	50(G)	µg/L	19U	19U	19U	0.95U
DIMETHYL PHTHALATE	50(G)	µg/L	19U	19U	19U	0.95U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	19U	19U	19U	0.95U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	19U	19U	19U	0.95U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
FLUORANTHENE	50(G)	µg/L	3.8U	3.8U	3.8U	0.19U
FLUORENE	50(G)	µg/L	3.8U	3.8U	3.8U	0.19U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	3.8U	3.8U	3.8U	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	19R	19R	19R	0.95R
HEXACHLOROETHANE	5(S)	µg/L	19U	19U	19U	0.95U
HEXACHLOROPROPENE	NC	µg/L	19U	19U	19U	0.95U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	3.8U	3.8U	3.8U	0.19U
ISODRIN	NC	µg/L	19U	19U	19U	0.95U
ISOPHORONE	50(G)	µg/L	19U	19U	19U	0.95U
ISOSAFROLE	NC	µg/L	19U	19U	19U	0.95U
KEPONE	NC	µg/L	77U	76U	77U	3.8U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	19U	19U	19U	0.95U
METHAPYRILENE	NC	µg/L	19U	19U	19U	0.95U
METHYL METHANESULFONATE	NC	µg/L	19UJ	19UJ	19UJ	0.95UJ
NAPHTHALENE	10(G)	µg/L	3.8U	3.8U	3.8U	0.19U
NITROBENZENE	0.4(S)	µg/L	38U	38U	38U	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	19U	19U	19U	0.95U
N-NITROSODIMETHYLAMINE	NC	µg/L	19U	19U	19U	0.95U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	19U	19U	19U	0.95U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	3.8U	3.8U	3.8U	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	19U	19U	19U	0.95U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	19U	19U	19U	0.95U
N-NITROSOPIPERIDINE	NC	µg/L	19U	19U	19U	0.95U
N-NITROSOPYRROLIDINE	NC	µg/L	19U	19U	19U	0.95U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	19U	19U	19U	0.95U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	19U	19U	19U	0.95U
O-TOLUIDINE	NC	µg/L	19U	19U	19U	0.95U
PENTACHLOROBENZENE	NC	µg/L	19U	19U	19U	0.95U
PENTACHLORONITROBENZENE	NC	µg/L	19U	19U	19U	0.95U
PENTACHLOROPHENOL	1(S)	µg/L	19U	19U	19U	0.95U
PHENACETIN	NC	µg/L	19U	19U	19U	0.95U
PHENANTHRENE	50(G)	µg/L	3.8U	3.8U	3.8U	0.10J

NOTES:

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[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 39
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
PHENOL	1(S)	µg/L	[390]	[400]	[1400]	[1.2]
P-PHENYLENEDIAMINE	NC	µg/L	380UJ	380UJ	380UJ	19UJ
PRONAMIDE	NC	µg/L	19U	19U	19U	0.95U
PYRENE	50(G)	µg/L	3.8U	3.8U	3.8U	0.19U
SAFROLE	NC	µg/L	19U	19U	19U	0.95U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 40
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
4,4'-DDE	0.2(S)	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
4,4'-DDT	0.2(S)	µg/L	0.0013U	0.0012U	0.0013U	0.0010J	0.00093J	0.0025U	0.0012UJ
ALDRIN	NC	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
ALPHA-BHC	0.01(S)	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
BETA-BHC	0.04(S)	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
CHLORDANE	0.05(S)	µg/L	0.012U	0.012U	0.012U	0.012UJ	0.012UJ	0.024U	0.012UJ
DELTA-BHC	0.04(S)	µg/L	0.0013U	0.0012U	0.0013U	0.00047J	0.0013UJ	0.0025U	0.0012UJ
DIELDRIN	0.004(S)	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
ENDOSULFAN I	NC	µg/L	0.0013U	0.0012U	0.0013U	0.0013J	0.0012J	0.0023J	0.0012J
ENDOSULFAN II	NC	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
ENDOSULFAN SULFATE	NC	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
ENDRIN	NC	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
GAMMA-BHC (LINDANE)	NC	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
HEPTACHLOR	0.04(S)	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0013U	0.0012U	0.0013U	0.0012UJ	0.0013UJ	0.0025U	0.0012UJ
METHOXYCHLOR	35(S)	µg/L	0.0025U	0.0024U	0.0025U	0.0024UJ	0.0024UJ	0.0048U	0.0024UJ
TOXAPHENE	0.09(S)	µg/L	0.099U	0.095U	0.098U	0.095UJ	0.096UJ	0.19U	0.095UJ

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 40
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
4,4'-DDE	0.2(S)	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
4,4'-DDT	0.2(S)	µg/L	0.0012UJ	0.00081J	0.0034J	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
ALDRIN	NC	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
ALPHA-BHC	0.01(S)	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
BETA-BHC	0.04(S)	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
CHLORDANE	0.05(S)	µg/L	0.012UJ	0.012UJ	0.012UJ	0.012U	0.012UJ	0.012UJ	0.012UJ
DELTA-BHC	0.04(S)	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
DIELDRIN	0.004(S)	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
ENDOSULFAN I	NC	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0015J	0.0012UJ	0.0018J
ENDOSULFAN II	NC	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
ENDOSULFAN SULFATE	NC	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
ENDRIN	NC	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012UJ	0.0016J	0.0012UJ	0.0012UJ
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
HEPTACHLOR	0.04(S)	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012UJ	0.0012UJ	0.0013UJ	0.0012U	0.0012UJ	0.0012UJ	0.0012UJ
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012UJ	0.00021J	0.0013UJ	0.0012U	0.0012UJ	0.00023J	0.0012UJ
METHOXYCHLOR	35(S)	µg/L	0.0024UJ	0.0024UJ	0.0024UJ	0.0024U	0.0024UJ	0.0024UJ	0.0024UJ
TOXAPHENE	0.09(S)	µg/L	0.095UJ	0.095UJ	0.096UJ	0.095U	0.095UJ	0.095UJ	0.095UJ

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 40
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
4,4'-DDE	0.2(S)	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
4,4'-DDT	0.2(S)	µg/L	0.0013UJ	0.0018J	0.0013U	0.0012UJ
ALDRIN	NC	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
ALPHA-BHC	0.01(S)	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
BETA-BHC	0.04(S)	µg/L	0.0014J	0.0014J	0.0013U	0.0012UJ
CHLORDANE	0.05(S)	µg/L	0.012UJ	0.012UJ	0.012U	0.012UJ
DELTA-BHC	0.04(S)	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
DIELDRIN	0.004(S)	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
ENDOSULFAN I	NC	µg/L	0.0027J	0.0016J	0.0013U	0.0012UJ
ENDOSULFAN II	NC	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
ENDOSULFAN SULFATE	NC	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
ENDRIN	NC	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
GAMMA-BHC (LINDANE)	NC	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
HEPTACHLOR	0.04(S)	µg/L	0.0013UJ	0.0014JN	0.0013U	0.0012UJ
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0013UJ	0.0012UJ	0.0013U	0.0012UJ
METHOXYCHLOR	35(S)	µg/L	0.0024UJ	0.0024UJ	0.0024U	0.0024UJ
TOXAPHENE	0.09(S)	µg/L	0.096UJ	0.095UJ	0.096U	0.095UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

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Table 41
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
DISULFOTON	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.95U	0.94U	0.96U
ETHYL PARATHION	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.95U	0.94U	0.96U
FAMPHUR	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.95U	0.94U	0.96U
Methyl parathion	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.95U	0.94U	0.96U
PHORATE	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.95U	0.94U	0.96U
THIONAZIN	NC	µg/L	0.94U	0.94U	0.95U	0.94U	0.95U	0.94U	0.96U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 41
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
DISULFOTON	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	0.94U	0.94U
ETHYL PARATHION	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	0.94U	0.94U
FAMPHUR	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	0.94U	0.94U
Methyl parathion	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	0.94U	0.94U
PHORATE	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	0.94U	0.94U
THIONAZIN	NC	µg/L	0.94U	0.95U	0.95U	0.95U	0.94U	0.94U	0.94U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 41
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
DISULFOTON	NC	µg/L	0.95U	0.95U	0.94U	0.95U
ETHYL PARATHION	NC	µg/L	0.95U	0.95U	0.94U	0.95U
FAMPHUR	NC	µg/L	0.95U	0.95U	0.94U	0.95U
Methyl parathion	NC	µg/L	0.95U	0.95U	0.94U	0.95U
PHORATE	NC	µg/L	0.95U	0.95U	0.94U	0.95U
THIONAZIN	NC	µg/L	0.95U	0.95U	0.94U	0.95U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 42
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
2,4,5-T	NC	µg/L	1.0U	0.96U	0.96U	0.95U	0.95U	0.96U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	1.0U	0.96U	0.96U	0.95U	0.95U	0.96U	0.95U
2,4-D	NC	µg/L	4.1U	3.8U	3.8U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.93U	0.87U	0.87U	0.86U	0.86U	0.87U	0.86U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 42
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
2,4,5-T	NC	µg/L	0.95U	0.95U	0.98U	0.95U	0.95U	0.95U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.95U	0.95U	0.98U	0.95U	0.95U	0.95U	0.95U
2,4-D	NC	µg/L	3.8U	3.8U	3.9U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.86U	0.86U	0.88U	0.86U	0.86UJ	0.86UJ	0.86UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 42
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8151 Herbicide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
2,4,5-T	NC	µg/L	0.97U	0.96U	0.95U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.97U	0.96U	0.95U	0.95U
2,4-D	NC	µg/L	3.9U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.87U	0.87UJ	0.86UJ	0.86U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 / SB915-MH-01 / 05/09/2012 / Regular sample	SB915-3083-02 / SB915-MH-02 / 05/09/2012 / Regular sample	SB915-3083-03 / SB915-MH-03 / 05/09/2012 / Regular sample	SB915-3084-01 / SB915-MH-04 / 05/10/2012 / Regular sample	SB915-3084-02 / SB915-MH-05 / 05/10/2012 / Regular sample	SB915-3084-03 / SB915-MH-06 / 05/10/2012 / Regular sample	SB915-3085-03 / SB915-MH-07 / 05/11/2012 / Regular sample
TOTAL PCBs	90(S)	ng/L	1.1769	0.7464	0.61646	3.34268	2.09815	1.60057	1.86812
109-PeCB	NC	ng/L	0.017QBC86J	0.0091QBC86J	0.0059QBC86J	0.015BC86J	0.038QBC86J	0.012QBC86J	0.01QBC86J
10-DiCB	NC	ng/L	0.0046QJ	0.0026QJ	0.0033QJ	0.0037QBJ	0.0068QBJ	0.0046QBJ	0.0057QJ
112-PeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
142-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
143-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
160-HxCB	NC	ng/L	0.021C129J	0.0068QC129J	0.0024QC129J	0.0076QBC129J	0.038QBC129J	0.038QBC129J	0.0053BC129J
161-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
162-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
164-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
165-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.002J	0.038U	0.038U	0.0017QJ	0.0015QJ	0.038U	0.0019QJ
203-OcCB	NC	ng/L	0.00072QJ	0.038U	0.038U	0.038U	0.038U	0.00053QJ	0.038U
21-TrCB C33	NC	ng/L	0.0071QBCJ	0.0073BCJ	0.0076BCJ	0.013QBCJ	0.0075BCJ	0.0098BCJ	0.011BCJ
59-TeCB C62/75	NC	ng/L	0.0011QCJ	0.038U	0.038U	0.008QCJ	0.003CJ	0.0021CJ	0.0018QCJ
64-TeCB	NC	ng/L	0.0063QBJ	0.0051QBJ	0.0043QBJ	0.0078BJ	0.0055BJ	0.0062BJ	0.0074BJ
72-TeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
98-PeCB C102	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB 101	NC	ng/L	0.020BC90J	0.0082BC90J	0.0052BC90J	0.0073BC90J	0.0061QBC90J	0.0069BC90J	0.0054QBC90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB 115 (BZ)	NC	ng/L	0.022QBC110J	0.0066QBC110J	0.0051QBC110J	0.0071QBC110J	0.0057BC110J	0.0058QBC110J	0.0061QBC110J
PCB 116 (BZ)	NC	ng/L	0.0029QC85J	0.038U	0.038U	0.0022C85J	0.038U	0.0013QC85J	0.038U
PCB 117 (BZ)	NC	ng/L	0.0029QC85J	0.038U	0.038U	0.0022C85J	0.038U	0.0013QC85J	0.038U
PCB 118	NC	ng/L	0.012QJ	0.0054J	0.0018QJ	0.0056QBJ	0.0046QBJ	0.038QBJ	0.003BJ
PCB 125 (BZ)	NC	ng/L	0.017QBC86J	0.0091QBC86J	0.0059QBC86J	0.015BC86J	0.038QBC86J	0.012QBC86J	0.010QBC86J
PCB 13 (BZ)	NC	ng/L	0.0052QBC12J	0.0046QBC12J	0.0034QBC12J	0.0071QBC129J	0.0039QBC12J	0.0039QBC12J	0.0054QBC12J
PCB 138	NC	ng/L	0.021C129J	0.0068QC129J	0.0024QC129J	0.0076QBC129J	0.038QBC129J	0.038QBC129J	0.0053BC129J
PCB 153	NC	ng/L	0.013CJ	0.0056CJ	0.0062QCJ	0.0058QBCJ	0.0038QBCJ	0.004QBCJ	0.038QBCJ
PCB 163 (BZ)	NC	ng/L	0.021C129J	0.0068QC129J	0.0024QC129J	0.0076QBC129J	0.038QBC129J	0.038QBC129J	0.0053BC129J
PCB 209	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
PCB 28	NC	ng/L	0.015BC20J	0.010QBC20J	0.012BC20J	0.019BC20J	0.011BC20J	0.012BC20J	0.018BC20J
PCB 30	NC	ng/L	0.044BC18J	0.042BC18J	0.031QBC18J	0.045BC18J	0.037BC18J	0.045BC18J	0.071BC18
PCB 52	NC	ng/L	0.032BJ	0.021BJ	0.02BJ	0.022BJ	0.016BJ	0.018BJ	0.028BJ
PCB 75 (BZ)	NC	ng/L	0.0011QC59J	0.038U	0.038U	0.0080QC59J	0.0030C59J	0.0021C59J	0.0018QC59J
PCB 91 (BZ)	NC	ng/L	0.0021QC88J	0.00089QC88J	0.00078QC88J	0.0013QC88J	0.0015QC88J	0.038U	0.0015QC83J
PCB-1	NC	ng/L	0.031BJ	0.029BJ	0.024BJ	0.036BJ	0.038B	0.038BJ	0.045B
PCB-100	NC	ng/L	0.038U	0.038U	0.038U	0.00087QC93J	0.038U	0.038U	0.038U
PCB-103	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-104	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-105	NC	ng/L	0.0072QJ	0.0034QJ	0.038U	0.0023QJ	0.0023QJ	0.0026J	0.0024QBJ
PCB-106/118	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-107/109	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-108/112	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-11	NC	ng/L	0.019QBJ	0.029QBJ	0.033BJ	0.036QBJ	0.018BJ	0.024BJ	0.039BJ
PCB-110	NC	ng/L	0.022QBCJ	0.0066QBCJ	0.0051QBCJ	0.0071QBCJ	0.0057BCJ	0.0058QBCJ	0.0061QBCJ
PCB-111/115	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-113	NC	ng/L	0.020BC90J	0.0082BC90J	0.0052BC90J	0.0073BC90J	0.0061QBC90J	0.0069BC90J	0.0054QBC90J
PCB-114	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-119	NC	ng/L	0.017QBC86J	0.0091QBC86J	0.0059QBC86J	0.015BC86J	0.038QBC86J	0.012QBC86J	0.010QBC86J
PCB-12/13	NC	ng/L	0.0052QBCJ	0.0046QBCJ	0.0034QBCJ	0.0071QBCJ	0.0039QBCJ	0.0039QBCJ	0.0054QBCJ
PCB-120	NC	ng/L	0.038U	0.038U	0.038U	0.00061QJ	0.038U	0.038U	0.038U
PCB-121	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-122	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-123	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-124	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-126	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-127	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-128/162	NC	ng/L	0.003QCJ	0.038U	0.038U	0.0021QCJ	0.038U	0.038U	0.038U
PCB-129	NC	ng/L	0.021CJ	0.0068QCJ	0.0024QCJ	0.0076QBCJ	0.038QBCJ	0.038QBCJ	0.0053BCJ
PCB-130	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-131	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
PCB-132/161	NC	ng/L	0.0098J	0.0025QJ	0.0034QJ	0.0034QJ	0.0022QJ	0.0032J	0.0021QJ
PCB-133/142	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-134/143	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-135	NC	ng/L	0.0098CJ	0.0031QCJ	0.0036CJ	0.0025QCJ	0.0027CJ	0.0029CJ	0.038U
PCB-136	NC	ng/L	0.0053J	0.0022J	0.038U	0.0014QJ	0.038U	0.038U	0.038U
PCB-137	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-139/149	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-14	NC	ng/L	0.038U	0.038U	0.038U	0.0012QJ	0.00089QJ	0.00083QJ	0.00099QJ
PCB-140	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-141	NC	ng/L	0.0038J	0.038U	0.038U	0.002J	0.0018QJ	0.038U	0.038U
PCB-144	NC	ng/L	0.0011J	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-145	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-146/165	NC	ng/L	0.0029QJ	0.038U	0.038U	0.038U	0.00077QJ	0.038U	0.038U
PCB-147	NC	ng/L	0.018QCJ	0.0091CJ	0.0061CJ	0.0085QBCJ	0.0063QBCJ	0.0048QBCJ	0.0054QCJ
PCB-148	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-149	NC	ng/L	0.018QC147J	0.0091C147J	0.0061C147J	0.0085QBC147J	0.0063QBC147J	0.0048QBC147J	0.0054QC147J
PCB-15	NC	ng/L	0.0076QBJ	0.0073QBJ	0.006QBJ	0.0099QBJ	0.038QBJ	0.038QBJ	0.0074QBJ
PCB-150	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-151	NC	ng/L	0.0098C135J	0.0031QC135J	0.0036C135J	0.0025QC135J	0.0027C135J	0.0029C135J	0.038U
PCB-152	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-153	NC	ng/L	0.0077C83J	0.0032C83J	0.038U	0.005QBC83J	0.0038BC83J	0.0032QBC83J	0.0052QC83J
PCB-154	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-155	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-156	NC	ng/L	0.002QCJ	0.038U	0.038U	0.0015QCJ	0.038U	0.00098QCJ	0.038U
PCB-157	NC	ng/L	0.0020QC156J	0.038U	0.038U	0.0015QC156J	0.038U	0.00098QC156J	0.038U
PCB-158/160	NC	ng/L	0.0024QJ	0.038U	0.038U	0.038U	0.00093QJ	0.038U	0.038U
PCB-159	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-16/32	NC	ng/L	0.023J	0.02J	0.015QJ	0.022BJ	0.018BJ	0.019QBJ	0.037BJ
PCB-166	NC	ng/L	0.0030QC128J	0.038U	0.038U	0.0021QC128J	0.038U	0.038U	0.038U
PCB-167	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
PCB-168	NC	ng/L	0.013C153J	0.0056C153J	0.0062QC153J	0.0058QBC153J	0.0038QBC153J	0.0040QBC153J	0.038QBC153J
PCB-169	NC	ng/L	0.038U	0.038U	0.038U	0.0011J	0.038U	0.038U	0.038U
PCB-17	NC	ng/L	0.015J	0.018J	0.0096QJ	0.016J	0.013QJ	0.016J	0.02QBJ
PCB-170	NC	ng/L	0.0034QJ	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-171	NC	ng/L	0.038U	0.038U	0.038U	0.0015CJ	0.038U	0.038U	0.038U
PCB-172	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-173	NC	ng/L	0.038U	0.038U	0.038U	0.0015C171J	0.038U	0.038U	0.038U
PCB-174	NC	ng/L	0.0031QJ	0.0015QJ	0.0019QJ	0.001QJ	0.002J	0.0024J	0.0014QJ
PCB-175	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-176	NC	ng/L	0.038U	0.00059QJ	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-177	NC	ng/L	0.0016QJ	0.038U	0.038U	0.038U	0.0012QJ	0.0016J	0.038U
PCB-178	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-179	NC	ng/L	0.0021QJ	0.0021QJ	0.0013QJ	0.0019QJ	0.001J	0.0011QJ	0.00073QJ
PCB-18	NC	ng/L	0.044BCJ	0.042BCJ	0.031QBCJ	0.045BCJ	0.037BCJ	0.045BCJ	0.071BC
PCB-180	NC	ng/L	0.0046QBCJ	0.002QBCJ	0.0019QBCJ	0.0025BCJ	0.0015QBCJ	0.0028QBCJ	0.0017QCJ
PCB-181	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-182/187	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-183	NC	ng/L	0.0041QJ	0.038U	0.038U	0.0022BJ	0.038U	0.038U	0.038U
PCB-184	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-185	NC	ng/L	0.0019C183J	0.038U	0.038U	0.0017QC183J	0.038U	0.038U	0.038U
PCB-186	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-188	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-189	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-19	NC	ng/L	0.014QJ	0.016J	0.016J	0.018QJ	0.018J	0.018J	0.018QJ
PCB-190	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-191	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-192	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-193	NC	ng/L	0.0046QBC180J	0.0020QBC180J	0.0019QBC180J	0.0025BC180J	0.0015QBC180J	0.0028QBC180J	0.0017QC180J
PCB-194	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-195	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
PCB-196/203	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-197	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-198	NC	ng/L	0.0023QCJ	0.038U	0.038U	0.0021QCJ	0.038U	0.038U	0.0011QCJ
PCB-199	NC	ng/L	0.0023QC198J	0.038U	0.038U	0.0021QC198J	0.038U	0.038U	0.0011QC198J
PCB-2	NC	ng/L	0.0043QBJ	0.005BJ	0.0028QBJ	0.0068BJ	0.0055BJ	0.0064QBJ	0.0086BJ
PCB-20/21/33	NC	ng/L	0.015BCJ	0.01QBCJ	0.012BCJ	0.019BCJ	0.011BCJ	0.012BCJ	0.018BCJ
PCB-200	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-201	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-202	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-204	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-205	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-206	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-207	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-208	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-22	NC	ng/L	0.0077BJ	0.0058BJ	0.0062BJ	0.0085BJ	0.006BJ	0.0062QBJ	0.0093BJ
PCB-23	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-24/27	NC	ng/L	0.038U	0.0019QJ	0.0012QJ	0.0012QJ	0.001QJ	0.00095QJ	0.0013QJ
PCB-25	NC	ng/L	0.00097QJ	0.038U	0.038U	0.0029QBJ	0.0018BJ	0.0013QBJ	0.0016QJ
PCB-26	NC	ng/L	0.0031CJ	0.0025QCJ	0.0019QCJ	0.0045BCJ	0.0014QBCJ	0.0023QBCJ	0.0045QCJ
PCB-27	NC	ng/L	0.0037J	0.0015QJ	0.002QJ	0.0035J	0.002QJ	0.0035J	0.0043J
PCB-29	NC	ng/L	0.0031C26J	0.0025QC26J	0.0019QC26J	0.0045BC26J	0.0014QBC26J	0.0023QBC26J	0.0045QC26J
PCB-3	NC	ng/L	0.003QBJ	0.0037QBJ	0.0035QBJ	0.0059QBJ	0.038BJ	0.0059BJ	0.0069QBJ
PCB-31	NC	ng/L	0.017BJ	0.013QBJ	0.013QBJ	0.021BJ	0.015BJ	0.016BJ	0.023BJ
PCB-32	NC	ng/L	0.011QBJ	0.0093BJ	0.011BJ	0.012BJ	0.0081BJ	0.0072QBJ	0.015BJ
PCB-33	NC	ng/L	0.0071QBC21J	0.0073BC21J	0.0076BC21J	0.013QBC21J	0.0075BC21J	0.0098BC21J	0.011BC21J
PCB-34	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-35	NC	ng/L	0.038U	0.0012QJ	0.038U	0.038U	0.038U	0.0013QBJ	0.038U
PCB-36	NC	ng/L	0.038U	0.038U	0.038U	0.00076QBJ	0.038U	0.038U	0.038U
PCB-37	NC	ng/L	0.0023QBJ	0.038U	0.0012QBJ	0.0042BJ	0.0022BJ	0.0028QBJ	0.0029J
PCB-38	NC	ng/L	0.038U	0.038U	0.038U	0.00065Q	0.038U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 / SB915-MH-01 / 05/09/2012 / Regular sample	SB915-3083-02 / SB915-MH-02 / 05/09/2012 / Regular sample	SB915-3083-03 / SB915-MH-03 / 05/09/2012 / Regular sample	SB915-3084-01 / SB915-MH-04 / 05/10/2012 / Regular sample	SB915-3084-02 / SB915-MH-05 / 05/10/2012 / Regular sample	SB915-3084-03 / SB915-MH-06 / 05/10/2012 / Regular sample	SB915-3085-03 / SB915-MH-07 / 05/11/2012 / Regular sample
PCB-39	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-4/10	NC	ng/L	0.057B	0.063B	0.055QBJ	0.098B	0.1B	0.096B	0.12QB
PCB-40	NC	ng/L	0.0059BCJ	0.0026QBCJ	0.0028QBCJ	0.0062QBCJ	0.0038QBCJ	0.0044QBCJ	0.0077CJ
PCB-41/64/71/72	NC	ng/L	0.0059BC40J	0.0026QBC40J	0.0028QBC40J	0.0062QBC40J	0.0038QBC40J	0.0044QBC40J	0.0077C40J
PCB-42/59	NC	ng/L	0.0028J	0.0014QJ	0.038U	0.0036QJ	0.0028QJ	0.0019QJ	0.004QJ
PCB-43/49	NC	ng/L	0.001QCJ	0.038U	0.038U	0.0029QCJ	0.038U	0.038U	0.038U
PCB-44	NC	ng/L	0.02BCJ	0.014BCJ	0.012BCJ	0.64BC	0.26BC	0.15BC	0.2BC
PCB-45	NC	ng/L	0.038U	0.0042QCJ	0.0042CJ	0.16C	0.082C	0.047C	0.06C
PCB-46	NC	ng/L	0.038U	0.038U	0.038U	0.0044QJ	0.0035QJ	0.0024J	0.0024QJ
PCB-47	NC	ng/L	0.020BC44J	0.014BC44J	0.012BC44J	0.64BC44	0.26BC44	0.15BC44	0.20BC44
PCB-48/75	NC	ng/L	0.0022J	0.038U	0.038U	0.0036J	0.038U	0.0022QJ	0.0025J
PCB-49	NC	ng/L	0.0084CJ	0.0044CJ	0.0047CJ	0.015BCJ	0.0086BCJ	0.0076BCJ	0.01CJ
PCB-5	NC	ng/L	0.0057QBJ	0.0068QBJ	0.0067BJ	0.0062QJ	0.0047QJ	0.005QJ	0.0098QJ
PCB-50	NC	ng/L	0.0026QCJ	0.0041QCJ	0.0026QCJ	0.0052CJ	0.0034CJ	0.0035QCJ	0.0059CJ
PCB-51	NC	ng/L	0.038U	0.0042QC45J	0.0042C45J	0.16C45	0.082C45	0.047C45	0.060C45
PCB-53	NC	ng/L	0.0026QC50J	0.0041QC50J	0.0026QC50J	0.0052C50J	0.0034C50J	0.0035QC50J	0.0059C50J
PCB-54	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-55	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-56/60	NC	ng/L	0.0033J	0.00092QJ	0.038U	0.0032QBJ	0.0019QBJ	0.002QBJ	0.0033J
PCB-57	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-58	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-6	NC	ng/L	0.0077QBJ	0.0065QBJ	0.0046QBJ	0.008QBJ	0.0058QBJ	0.0083QBJ	0.012QBJ
PCB-61/70	NC	ng/L	0.016BCJ	0.0052QBCJ	0.007QBCJ	0.012QBCJ	0.006QBCJ	0.0074BCJ	0.01BCJ
PCB-62	NC	ng/L	0.0011QC59J	0.038U	0.038U	0.0080QC59J	0.0030C59J	0.0021C59J	0.0018QC59J
PCB-63	NC	ng/L	0.038U	0.038U	0.038U	0.0014J	0.038U	0.038U	0.038U
PCB-65	NC	ng/L	0.020BC44J	0.014BC44J	0.012BC44J	0.64BC44	0.26BC44	0.15BC44	0.20BC44
PCB-66	NC	ng/L	0.0066J	0.0021QJ	0.0026QJ	0.0071BJ	0.0037BJ	0.0031QBJ	0.0041BJ
PCB-67	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-68	NC	ng/L	0.038U	0.038U	0.038U	0.1	0.067	0.043	0.055
PCB-69	NC	ng/L	0.0084C49J	0.0044C49J	0.0047C49J	0.015BC49J	0.0086BC49J	0.0076BC49J	0.010C49J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 / SB915-MH-01 / 05/09/2012 / Regular sample	SB915-3083-02 / SB915-MH-02 / 05/09/2012 / Regular sample	SB915-3083-03 / SB915-MH-03 / 05/09/2012 / Regular sample	SB915-3084-01 / SB915-MH-04 / 05/10/2012 / Regular sample	SB915-3084-02 / SB915-MH-05 / 05/10/2012 / Regular sample	SB915-3084-03 / SB915-MH-06 / 05/10/2012 / Regular sample	SB915-3085-03 / SB915-MH-07 / 05/11/2012 / Regular sample
PCB-7/9	NC	ng/L	0.0017QBJ	0.0043QBJ	0.0032QBJ	0.0026QBJ	0.0028QBJ	0.038QBJ	0.0037QBJ
PCB-70	NC	ng/L	0.016BC61J	0.0052QBC61J	0.0070QBC61J	0.012QBC61J	0.0060QBC61J	0.0074BC61J	0.010BC61J
PCB-71	NC	ng/L	0.0059BC40J	0.0026QBC40J	0.0028QBC40J	0.0062QBC40J	0.0038QBC40J	0.0044QBC40J	0.0077C40J
PCB-73	NC	ng/L	0.001QC43J	0.038U	0.038U	0.0029QC43J	0.038U	0.038U	0.038U
PCB-74	NC	ng/L	0.016BC61J	0.0052QBC61J	0.0070QBC61J	0.012QBC61J	0.0060QBC61J	0.0074BC61J	0.010BC61J
PCB-76/66	NC	ng/L	0.016BC61J	0.0052QBC61J	0.0070QBC61J	0.012QBC61J	0.0060QBC61J	0.0074BC61J	0.010BC61J
PCB-77	NC	ng/L	0.038U	0.00071J	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-78	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-79	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-8	NC	ng/L	0.019QBJ	0.019BJ	0.017BJ	0.027QBJ	0.022BJ	0.025BJ	0.049BJ
PCB-80	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-81	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-82	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.00076QJ	0.038U	0.038U
PCB-83	NC	ng/L	0.0077CJ	0.0032CJ	0.038U	0.005QBCJ	0.0038BCJ	0.0032QBCJ	0.0052QCJ
PCB-84/92	NC	ng/L	0.0066QJ	0.0034QJ	0.0017QJ	0.0029QJ	0.0032J	0.0032QJ	0.0027QJ
PCB-85/116	NC	ng/L	0.0029QCJ	0.038U	0.038U	0.0022CJ	0.038U	0.0013QCJ	0.038U
PCB-86	NC	ng/L	0.017QBCJ	0.0091QBCJ	0.0059QBCJ	0.015BCJ	0.038QBCJ	0.012QBCJ	0.01QBCJ
PCB-87	NC	ng/L	0.017QBC86J	0.0091QBC86J	0.0059QBC86J	0.015BC86J	0.038QBC86J	0.012QBC86J	0.010QBC86J
PCB-88/91	NC	ng/L	0.0021QCJ	0.00089QCJ	0.00078QCJ	0.0013QCJ	0.0015QCJ	0.038U	0.0015QCJ
PCB-89	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-9	NC	ng/L	0.016QBJ	0.018QBJ	0.015QBJ	0.013QBJ	0.014QBJ	0.016QBJ	0.037J
PCB-90/101	NC	ng/L	0.02BCJ	0.0082BCJ	0.0052BCJ	0.0073BCJ	0.0061QBCJ	0.0069BCJ	0.0054QBCJ
PCB-92	NC	ng/L	0.0038J	0.038U	0.038U	0.00085QJ	0.038U	0.038U	0.0012QJ
PCB-93	NC	ng/L	0.038U	0.038U	0.038U	0.00087QCJ	0.038U	0.038U	0.038U
PCB-94	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-95/98/102	NC	ng/L	0.037J	0.017J	0.015J	0.011QJ	0.013QJ	0.012J	0.013QJ
PCB-96	NC	ng/L	0.038U	0.038U	0.038U	0.00036QJ	0.038U	0.038U	0.038U
PCB-97	NC	ng/L	0.017QBC86J	0.0091QBC86J	0.0059QBC86J	0.015BC86J	0.038QBC86J	0.012QBC86J	0.010QBC86J
Total Di-CB	NC	ng/L	0.14EMPC,U	0.16EMPC,U	0.15EMPC,U	0.21EMPC,U	0.18EMPC,U	0.19EMPC,U	0.29EMPC
Total Hepta-CB	NC	ng/L	0.021EMPC,J	0.0089EMPC,U	0.0062EMPC,UJ	0.011EMPC,UJ	0.0082EMPC,U	0.0091EMPC,U	0.0048EMPC,J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 / SB915-MH-01 / 05/09/2012 / Regular sample	SB915-3083-02 / SB915-MH-02 / 05/09/2012 / Regular sample	SB915-3083-03 / SB915-MH-03 / 05/09/2012 / Regular sample	SB915-3084-01 / SB915-MH-04 / 05/10/2012 / Regular sample	SB915-3084-02 / SB915-MH-05 / 05/10/2012 / Regular sample	SB915-3084-03 / SB915-MH-06 / 05/10/2012 / Regular sample	SB915-3085-03 / SB915-MH-07 / 05/11/2012 / Regular sample
Total Hexa-CB	NC	ng/L	0.093EMPC,J	0.029EMPC,J	0.022EMPC,J	0.036EMPC,U	0.023EMPC,U	0.021EMPC,U	0.015EMPC,U
Total Mono-CB	NC	ng/L	0.038EMPC,U	0.038EMPC,U	0.030EMPC,U	0.049EMPC,U	0.048U	0.050EMPC,U	0.060EMPC
Total Nona-CB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
Total Octa-CB	NC	ng/L	0.0030EMPC,J	0.038U	0.038U	0.0021EMPC,J	0.038U	0.00053EMPC,J	0.0011EMPC,J
Total Penta-CB	NC	ng/L	0.14EMPC,J	0.057EMPC,U	0.035EMPC,U	0.063EMPC,U	0.050EMPC,U	0.050EMPC,U	0.051EMPC,U
Total Tetra-CB	NC	ng/L	0.11EMPC,U	0.066EMPC,U	0.061EMPC,U	1.0EMPC	0.47EMPC	0.30EMPC	0.40EMPC
Total Tri-CB	NC	ng/L	0.16EMPC,U	0.15EMPC,U	0.13EMPC,U	0.19EMPC,U	0.14EMPC,U	0.16EMPC,U	0.24EMPC

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
TOTAL PCBs	90(S)	ng/L	1.8574	3.19695	1.66366	1.0619	1.61357	1.11872	2.5786
109-PeCB	NC	ng/L	0.015QBC86J	0.013QBC86J	0.013QBC86J	0.0099QBC86J	0.012BC86J	0.01QBC86J	0.014QBC86J
10-DiCB	NC	ng/L	0.0059QBJ	0.0067QBJ	0.0059QBJ	0.004QJ	0.0037QBJ	0.005QBJ	0.0031QBJ
112-PeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
142-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
143-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
160-HxCB	NC	ng/L	0.0067BC129J	0.038QBC129J	0.038QBC129J	0.0053C129J	0.038BC129J	0.0088BC129J	0.0099BC129J
161-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
162-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
164-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
165-HxCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.038U	0.002J	0.00093QJ	0.0018J	0.038U	0.038U	0.0026QJ
203-OcCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
21-TrCB C33	NC	ng/L	0.016BCJ	0.016BCJ	0.012BCJ	0.012QBCJ	0.01BCJ	0.0081QBCJ	0.015BCJ
59-TeCB C62/75	NC	ng/L	0.038U	0.00085QCJ	0.0017CJ	0.0015QCJ	0.038U	0.038U	0.0017QCJ
64-TeCB	NC	ng/L	0.0094BJ	0.0064BJ	0.0073BJ	0.0071BJ	0.0052BJ	0.0065BJ	0.012BJ
72-TeCB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
98-PeCB C102	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB 101	NC	ng/L	0.0076BC90J	0.0087BC90J	0.0084BC90J	0.0086BC90J	0.0065BC90J	0.0084BC90J	0.0097BC90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB 115 (BZ)	NC	ng/L	0.0083BC110J	0.0081QBC110J	0.0083BC110J	0.0076QBC110J	0.0072QBC110J	0.010BC110J	0.011BC110J
PCB 116 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0018QC85J
PCB 117 (BZ)	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0018QC85J
PCB 118	NC	ng/L	0.0037QBJ	0.0048BJ	0.0031QBJ	0.0046QJ	0.0042QBJ	0.006BJ	0.0063BJ
PCB 125 (BZ)	NC	ng/L	0.015QBC86J	0.013QBC86J	0.013QBC86J	0.0099QBC86J	0.012BC86J	0.010QBC86J	0.014QBC86J
PCB 13 (BZ)	NC	ng/L	0.0062QBC12J	0.0046QBC12J	0.0074QBC12J	0.0070QBC12J	0.0054QBC12J	0.0032QBC12J	0.0047QBC12J
PCB 138	NC	ng/L	0.0067BC129J	0.038QBC129J	0.038QBC129J	0.0053C129J	0.038BC129J	0.0088BC129J	0.0099BC129J
PCB 153	NC	ng/L	0.0049QBCJ	0.0039QBCJ	0.0033QBCJ	0.0039QCJ	0.004QBCJ	0.0062BCJ	0.0096QBCJ
PCB 163 (BZ)	NC	ng/L	0.0067BC129J	0.038QBC129J	0.038QBC129J	0.0053C129J	0.038BC129J	0.0088BC129J	0.0099BC129J
PCB 209	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
PCB 28	NC	ng/L	0.023BC20J	0.021BC20J	0.020BC20J	0.018BC20J	0.015BC20J	0.017BC20J	0.027BC20J
PCB 30	NC	ng/L	0.073BC18	0.076BC18	0.059BC18	0.063BC18	0.041BC18J	0.046BC18J	0.046BC18J
PCB 52	NC	ng/L	0.025BJ	0.022QBJ	0.024BJ	0.02BJ	0.017BJ	0.02BJ	0.021QBJ
PCB 75 (BZ)	NC	ng/L	0.038U	0.00085QC59J	0.0017C59J	0.0015QC59J	0.038U	0.038U	0.0017QC59J
PCB 91 (BZ)	NC	ng/L	0.038U	0.0013QC88J	0.038U	0.0013QC88J	0.038U	0.038U	0.038U
PCB-1	NC	ng/L	0.054B	0.05B	0.045B	0.059B	0.032BJ	0.031BJ	0.029BJ
PCB-100	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-103	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-104	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-105	NC	ng/L	0.0035QJ	0.0028QJ	0.003J	0.0028J	0.0026QJ	0.0032J	0.0013QJ
PCB-106/118	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-107/109	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-108/112	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-11	NC	ng/L	0.043BJ	0.056BJ	0.052BJ	0.055BJ	0.052BJ	0.035QBJ	0.075QB
PCB-110	NC	ng/L	0.0083BCJ	0.0081QBCJ	0.0083BCJ	0.0076QBCJ	0.0072QBCJ	0.01BCJ	0.011BCJ
PCB-111/115	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-113	NC	ng/L	0.0076BC90J	0.0087BC90J	0.0084BC90J	0.0086BC90J	0.0065BC90J	0.0084BC90J	0.0097BC90J
PCB-114	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-119	NC	ng/L	0.015QBC86J	0.013QBC86J	0.013QBC86J	0.0099QBC86J	0.012BC86J	0.010QBC86J	0.014QBC86J
PCB-12/13	NC	ng/L	0.0062QBCJ	0.0046QBCJ	0.0074QBCJ	0.007QBCJ	0.0054QBCJ	0.0032QBCJ	0.0047QBCJ
PCB-120	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-121	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-122	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-123	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-124	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-126	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-127	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-128/162	NC	ng/L	0.0023CJ	0.038U	0.038U	0.0013CJ	0.038U	0.038U	0.038U
PCB-129	NC	ng/L	0.0067BCJ	0.038QBCJ	0.038QBCJ	0.0053CJ	0.038BCJ	0.0088BCJ	0.0099BCJ
PCB-130	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-131	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
PCB-132/161	NC	ng/L	0.0028QJ	0.0027QJ	0.0032J	0.0026QJ	0.038U	0.038U	0.038U
PCB-133/142	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-134/143	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-135	NC	ng/L	0.0025QCJ	0.0033QCJ	0.038U	0.0026QCJ	0.038U	0.038U	0.038U
PCB-136	NC	ng/L	0.038U	0.0012QJ	0.038U	0.0014J	0.038U	0.038U	0.038U
PCB-137	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-139/149	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-14	NC	ng/L	0.0014QJ	0.0012QJ	0.0011QJ	0.0024QBJ	0.0014QJ	0.038U	0.038U
PCB-140	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-141	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-144	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-145	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-146/165	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-147	NC	ng/L	0.0086BCJ	0.0067BCJ	0.0049QBCJ	0.0055QCJ	0.0045QBCJ	0.0075QBCJ	0.0076QBCJ
PCB-148	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-149	NC	ng/L	0.0086BC147J	0.0067BC147J	0.0049QBC147J	0.0055QC147J	0.0045QBC147J	0.0075QBC147J	0.0076QBC147J
PCB-15	NC	ng/L	0.0091BJ	0.0088QBJ	0.011QBJ	0.0074QBJ	0.0072QBJ	0.0074QBJ	0.014QBJ
PCB-150	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-151	NC	ng/L	0.0025QC135J	0.0033QC135J	0.038U	0.0026QC135J	0.038U	0.038U	0.038U
PCB-152	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-153	NC	ng/L	0.0041QBC83J	0.0054QBC83J	0.0054QBC83J	0.005C83J	0.0025QBC83J	0.0075BC83J	0.038U
PCB-154	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-155	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-156	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-157	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-158/160	NC	ng/L	0.038U	0.038U	0.00073QJ	0.038U	0.038U	0.0017J	0.038U
PCB-159	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-16/32	NC	ng/L	0.033BJ	0.036BJ	0.026QBJ	0.03J	0.022BJ	0.023BJ	0.023BJ
PCB-166	NC	ng/L	0.0023C128J	0.038U	0.038U	0.0013C128J	0.038U	0.038U	0.038U
PCB-167	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
PCB-168	NC	ng/L	0.0049QBC153J	0.0039QBC153J	0.0033QBC153J	0.0039QC153J	0.0040QBC153J	0.0062BC153J	0.0096QBC153J
PCB-169	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-17	NC	ng/L	0.025J	0.022QJ	0.02J	0.016QJ	0.016J	0.013QJ	0.014J
PCB-170	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-171	NC	ng/L	0.00057QCJ	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-172	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-173	NC	ng/L	0.00057QC171J	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-174	NC	ng/L	0.0011QJ	0.038U	0.0016QJ	0.0011QJ	0.038U	0.038U	0.038U
PCB-175	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-176	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-177	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-178	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-179	NC	ng/L	0.0017J	0.038U	0.0012QJ	0.00074QJ	0.038U	0.00072QJ	0.038U
PCB-18	NC	ng/L	0.073BC	0.076BC	0.059BC	0.063BC	0.041BCJ	0.046BCJ	0.046BCJ
PCB-180	NC	ng/L	0.0019QBCJ	0.0022QBCJ	0.038QBCJ	0.038U	0.002QBCJ	0.0022QBCJ	0.0028BCJ
PCB-181	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-182/187	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-183	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-184	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-185	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-186	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-188	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-189	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-19	NC	ng/L	0.023J	0.021J	0.018QJ	0.018J	0.0083QJ	0.015J	0.011J
PCB-190	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-191	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-192	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-193	NC	ng/L	0.0019QBC180J	0.0022QBC180J	0.038QBC180J	0.038U	0.0020QBC180J	0.0022QBC180J	0.0028BC180J
PCB-194	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-195	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
PCB-196/203	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-197	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-198	NC	ng/L	0.038U	0.038U	0.038U	0.0011CJ	0.038U	0.038U	0.038U
PCB-199	NC	ng/L	0.038U	0.038U	0.038U	0.0011C198J	0.038U	0.038U	0.038U
PCB-2	NC	ng/L	0.01BJ	0.012BJ	0.011BJ	0.011QBJ	0.0082QBJ	0.0063QBJ	0.011BJ
PCB-20/21/33	NC	ng/L	0.023BCJ	0.021BCJ	0.02BCJ	0.018BCJ	0.015BCJ	0.017BCJ	0.027BCJ
PCB-200	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-201	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-202	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-204	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-205	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-206	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-207	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-208	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-22	NC	ng/L	0.01BJ	0.0096BJ	0.0099BJ	0.0096BJ	0.0063BJ	0.0089BJ	0.0089QBJ
PCB-23	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-24/27	NC	ng/L	0.0017QJ	0.0026QJ	0.038U	0.0017QJ	0.0017J	0.038U	0.038U
PCB-25	NC	ng/L	0.0025QBJ	0.0028BJ	0.0023BJ	0.0014QJ	0.0016QBJ	0.0018QBJ	0.0022QBJ
PCB-26	NC	ng/L	0.0041QBCJ	0.0053BCJ	0.0051BCJ	0.0055CJ	0.0043BCJ	0.0026QBCJ	0.0041QBCJ
PCB-27	NC	ng/L	0.0033J	0.0039QJ	0.0026QJ	0.0044J	0.0019QJ	0.0016QJ	0.0032QJ
PCB-29	NC	ng/L	0.0041QBC26J	0.0053BC26J	0.0051BC26J	0.0055C26J	0.0043BC26J	0.0026QBC26J	0.0041QBC26J
PCB-3	NC	ng/L	0.01BJ	0.012BJ	0.0083BJ	0.012BJ	0.0072QBJ	0.0075BJ	0.0072BJ
PCB-31	NC	ng/L	0.028BJ	0.028BJ	0.023BJ	0.023BJ	0.019BJ	0.018BJ	0.027BJ
PCB-32	NC	ng/L	0.013QBJ	0.012QBJ	0.013BJ	0.014BJ	0.0084QBJ	0.011BJ	0.01QBJ
PCB-33	NC	ng/L	0.016BC21J	0.016BC21J	0.012BC21J	0.012QBC21J	0.010BC21J	0.0081QBC21J	0.015BC21J
PCB-34	NC	ng/L	0.00066QJ	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-35	NC	ng/L	0.038U	0.038U	0.038U	0.00078QJ	0.038U	0.0017QBJ	0.038U
PCB-36	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-37	NC	ng/L	0.0036BJ	0.0038QBJ	0.0034QBJ	0.0045BJ	0.0034QBJ	0.0021QBJ	0.0079QBJ
PCB-38	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
PCB-39	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-4/10	NC	ng/L	0.11B	0.12B	0.12B	0.11QB	0.078B	0.068QB	0.054QBJ
PCB-40	NC	ng/L	0.0086QBCJ	0.0097BCJ	0.007QBCJ	0.0066QBCJ	0.006BCJ	0.0046QBCJ	0.013BCJ
PCB-41/64/71/72	NC	ng/L	0.0086QBC40J	0.0097BC40J	0.007QBC40J	0.0066QBC40J	0.006BC40J	0.0046QBC40J	0.013BC40J
PCB-42/59	NC	ng/L	0.038U	0.0034QJ	0.0029QJ	0.0027QJ	0.0032QJ	0.003J	0.0061QJ
PCB-43/49	NC	ng/L	0.0018QCJ	0.038U	0.0019CJ	0.038U	0.038U	0.038U	0.038U
PCB-44	NC	ng/L	0.19BC	0.52BC	0.11BC	0.015BCJ	0.17BC	0.077BC	0.4BC
PCB-45	NC	ng/L	0.055C	0.12C	0.039C	0.0023QCJ	0.069QC	0.024CJ	0.13C
PCB-46	NC	ng/L	0.0036J	0.0033J	0.0023QJ	0.001QJ	0.0018QJ	0.038U	0.038U
PCB-47	NC	ng/L	0.19BC44	0.52BC44	0.11BC44	0.015BC44J	0.17BC44	0.077BC44	0.40BC44
PCB-48/75	NC	ng/L	0.0026QJ	0.0029QJ	0.0023J	0.0023QJ	0.0018J	0.0026J	0.0045J
PCB-49	NC	ng/L	0.011BCJ	0.016BCJ	0.0078BCJ	0.0074CJ	0.0079QBCJ	0.0076BCJ	0.018BCJ
PCB-5	NC	ng/L	0.012J	0.0092QJ	0.008J	0.0074QBJ	0.0049QJ	0.0084J	0.0059QJ
PCB-50	NC	ng/L	0.0047QCJ	0.0055CJ	0.0052CJ	0.003QCJ	0.002QCJ	0.0029CJ	0.0065CJ
PCB-51	NC	ng/L	0.055C45	0.12C45	0.039C45	0.0023QC45J	0.069QC45	0.024C45J	0.13C45
PCB-53	NC	ng/L	0.0047QC50J	0.0055C50J	0.0052C50J	0.0030QC50J	0.0020QC50J	0.0029C50J	0.0065C50J
PCB-54	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-55	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-56/60	NC	ng/L	0.0028BJ	0.0046BJ	0.0027BJ	0.0026QJ	0.0026BJ	0.0026QBJ	0.0037BJ
PCB-57	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-58	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-6	NC	ng/L	0.013QBJ	0.015QBJ	0.013QBJ	0.016QBJ	0.0083QBJ	0.0096QBJ	0.0081QBJ
PCB-61/70	NC	ng/L	0.011BCJ	0.013BCJ	0.012BCJ	0.011BCJ	0.008QBCJ	0.011BCJ	0.018QBCJ
PCB-62	NC	ng/L	0.038U	0.00085QC59J	0.0017C59J	0.0015QC59J	0.038U	0.038U	0.0017QC59J
PCB-63	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-65	NC	ng/L	0.19BC44	0.52BC44	0.11BC44	0.015BC44J	0.17BC44	0.077BC44	0.40BC44
PCB-66	NC	ng/L	0.0049BJ	0.007BJ	0.0055BJ	0.0047J	0.0049BJ	0.0048BJ	0.0078QBJ
PCB-67	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-68	NC	ng/L	0.045	0.098	0.022J	0.038U	0.059	0.021J	0.097
PCB-69	NC	ng/L	0.011BC49J	0.016BC49J	0.0078BC49J	0.0074C49J	0.0079QBC49J	0.0076BC49J	0.018BC49J

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
PCB-7/9	NC	ng/L	0.0029QBJ	0.0043QBJ	0.004QBJ	0.0042QBJ	0.0025QBJ	0.0046QBJ	0.0033QBJ
PCB-70	NC	ng/L	0.011BC61J	0.013BC61J	0.012BC61J	0.011BC61J	0.0080QBC61J	0.011BC61J	0.018QBC61J
PCB-71	NC	ng/L	0.0086QBC40J	0.0097BC40J	0.0070QBC40J	0.0066QBC40J	0.0060BC40J	0.0046QBC40J	0.013BC40J
PCB-73	NC	ng/L	0.0018QC43J	0.038U	0.0019C43J	0.038U	0.038U	0.038U	0.038U
PCB-74	NC	ng/L	0.011BC61J	0.013BC61J	0.012BC61J	0.011BC61J	0.0080QBC61J	0.011BC61J	0.018QBC61J
PCB-76/66	NC	ng/L	0.011BC61J	0.013BC61J	0.012BC61J	0.011BC61J	0.0080QBC61J	0.011BC61J	0.018QBC61J
PCB-77	NC	ng/L	0.00085QJ	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-78	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-79	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-8	NC	ng/L	0.047BJ	0.055QBJ	0.044QBJ	0.038QBJ	0.03BJ	0.033BJ	0.029QBJ
PCB-80	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-81	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-82	NC	ng/L	0.0011QJ	0.038U	0.038U	0.038U	0.0007QJ	0.038U	0.038U
PCB-83	NC	ng/L	0.0041QBCJ	0.0054QBCJ	0.0054QBCJ	0.005CJ	0.0025QBCJ	0.0075BCJ	0.038U
PCB-84/92	NC	ng/L	0.0031QJ	0.0036QJ	0.0029QJ	0.0039QJ	0.0026QJ	0.0029QJ	0.0027QJ
PCB-85/116	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.0018QCJ
PCB-86	NC	ng/L	0.015QBCJ	0.013QBCJ	0.013QBCJ	0.0099QBCJ	0.012BCJ	0.01QBCJ	0.014QBCJ
PCB-87	NC	ng/L	0.015QBC86J	0.013QBC86J	0.013QBC86J	0.0099QBC86J	0.012BC86J	0.010QBC86J	0.014QBC86J
PCB-88/91	NC	ng/L	0.038U	0.0013QCJ	0.038U	0.0013QCJ	0.038U	0.038U	0.038U
PCB-89	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-9	NC	ng/L	0.035BJ	0.036BJ	0.027QBJ	0.028QBJ	0.02QBJ	0.022BJ	0.015QBJ
PCB-90/101	NC	ng/L	0.0076BCJ	0.0087BCJ	0.0084BCJ	0.0086BCJ	0.0065BCJ	0.0084BCJ	0.0097BCJ
PCB-92	NC	ng/L	0.00077QJ	0.038U	0.0016QJ	0.038U	0.00087QJ	0.038U	0.038U
PCB-93	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-94	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-95/98/102	NC	ng/L	0.013J	0.014QJ	0.014J	0.012QJ	0.01J	0.011J	0.013QJ
PCB-96	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
PCB-97	NC	ng/L	0.015QBC86J	0.013QBC86J	0.013QBC86J	0.0099QBC86J	0.012BC86J	0.010QBC86J	0.014QBC86J
Total Di-CB	NC	ng/L	0.29EMPC	0.32EMPC	0.30EMPC	0.28EMPC,U	0.21EMPC,U	0.20EMPC,U	0.21EMPC,U
Total Hepta-CB	NC	ng/L	0.0053EMPC,UJ	0.0043EMPC,U	0.0037EMPC,U	0.0030EMPC,U	0.038EMPC,U	0.038EMPC,UJ	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3084-04 / SB915-MH-08 / 05/10/2012 / Regular sample	SB915-3084-05 / SB915-MH-09 / 05/10/2012 / Regular sample	SB915-3084-07 / SB915-MH-10 / 05/10/2012 / Regular sample	SB915-3083-04 / SB915-MH-11 / 05/09/2012 / Regular sample	SB915-3084-08 / SB915-MH-12 / 05/10/2012 / Regular sample	SB915-3084-09 / SB915-MH-13 / 05/10/2012 / Regular sample	SB915-3084-10 / SB915-MH-14 / 05/10/2012 / Regular sample
Total Hexa-CB	NC	ng/L	0.028EMPC,U	0.023EMPC,U	0.018EMPC,U	0.023EMPC	0.038EMPC,U	0.024EMPC,U	0.027EMPC,U
Total Mono-CB	NC	ng/L	0.074	0.074	0.064	0.082EMPC	0.048EMPC,U	0.045EMPC,U	0.047U
Total Nona-CB	NC	ng/L	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U	0.038U
Total Octa-CB	NC	ng/L	0.038U	0.038U	0.038U	0.0011J	0.038U	0.038U	0.038U
Total Penta-CB	NC	ng/L	0.061EMPC,U	0.061EMPC,U	0.059EMPC,U	0.055EMPC,U	0.050EMPC,U	0.059EMPC,U	0.059EMPC,U
Total Tetra-CB	NC	ng/L	0.38EMPC	0.83EMPC	0.26EMPC	0.089EMPC,U	0.36EMPC	0.19EMPC	0.75EMPC
Total Tri-CB	NC	ng/L	0.26EMPC	0.26EMPC	0.21EMPC	0.22EMPC	0.16EMPC,U	0.17EMPC,U	0.20EMPC,J

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
TOTAL PCBs	90(S)	ng/L	4.2014	1.81658	1.43161	1.6333
109-PeCB	NC	ng/L	0.018BC86J	0.015QBC86J	0.018QBC86J	0.013QBC86J
10-DiCB	NC	ng/L	0.0062QJ	0.007QJ	0.0022QJ	0.038U
112-PeCB	NC	ng/L	0.038U	0.039U	0.038U	0.038U
142-HxCB	NC	ng/L	0.038U	0.039U	0.038U	0.038U
143-HxCB	NC	ng/L	0.038U	0.039U	0.038U	0.038U
160-HxCB	NC	ng/L	0.012BC129J	0.011QBC129J	0.012BC129J	0.068C129
161-HxCB	NC	ng/L	0.038U	0.039U	0.038U	0.038U
162-HxCB	NC	ng/L	0.038U	0.039U	0.038U	0.038U
164-HxCB	NC	ng/L	0.038U	0.039U	0.038U	0.0053QJ
165-HxCB	NC	ng/L	0.038U	0.039U	0.038U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.0029QJ	0.0014QJ	0.038U	0.0024J
203-OcCB	NC	ng/L	0.038U	0.039U	0.038U	0.011J
21-TrCB C33	NC	ng/L	0.016BCJ	0.015BCJ	0.0083BCJ	0.0085BCJ
59-TeCB C62/75	NC	ng/L	0.038U	0.0027QCJ	0.0013QCJ	0.038U
64-TeCB	NC	ng/L	0.01BJ	0.0096QBJ	0.0058QBJ	0.0043QBJ
72-TeCB	NC	ng/L	0.038U	0.039U	0.038U	0.038U
98-PeCB C102	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB 101	NC	ng/L	0.015BC90J	0.015BC90J	0.0093QBC90J	0.018BC90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB 115 (BZ)	NC	ng/L	0.018BC110J	0.017QBC110J	0.015BC110J	0.034BC110J
PCB 116 (BZ)	NC	ng/L	0.0019QC85J	0.039U	0.00070QC85J	0.0044QC85J
PCB 117 (BZ)	NC	ng/L	0.0019QC85J	0.039U	0.00070QC85J	0.0044QC85J
PCB 118	NC	ng/L	0.0046BJ	0.0056BJ	0.0049QBJ	0.017J
PCB 125 (BZ)	NC	ng/L	0.018BC86J	0.015QBC86J	0.018QBC86J	0.013QBC86J
PCB 13 (BZ)	NC	ng/L	0.0034QBC12J	0.0036QBC12J	0.0050QBC12J	0.0022QBC12J
PCB 138	NC	ng/L	0.012BC129J	0.011QBC129J	0.012BC129J	0.068C129
PCB 153	NC	ng/L	0.0062QBCJ	0.0078QBCJ	0.0093BCJ	0.051C
PCB 163 (BZ)	NC	ng/L	0.012BC129J	0.011QBC129J	0.012BC129J	0.068C129
PCB 209	NC	ng/L	0.038U	0.039U	0.0022QJ	0.0046J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
PCB 28	NC	ng/L	0.018BC20J	0.022BC20J	0.014BC20J	0.010QBC20J
PCB 30	NC	ng/L	0.077BC18	0.090BC18	0.029BC18J	0.023BC18J
PCB 52	NC	ng/L	0.039B	0.041B	0.025BJ	0.0098QBJ
PCB 75 (BZ)	NC	ng/L	0.038U	0.0027QC59J	0.0013QC59J	0.038U
PCB 91 (BZ)	NC	ng/L	0.0045C88J	0.0036C88J	0.0016C88J	0.0029QC88J
PCB-1	NC	ng/L	0.03BJ	0.037BJ	0.0065QBJ	0.0099BJ
PCB-100	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-103	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-104	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-105	NC	ng/L	0.0023QBJ	0.0024QBJ	0.0034QBJ	0.0077J
PCB-106/118	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-107/109	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-108/112	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-11	NC	ng/L	0.018QBJ	0.028QBJ	0.023BJ	0.021QBJ
PCB-110	NC	ng/L	0.018BCJ	0.017QBCJ	0.015BCJ	0.034BCJ
PCB-111/115	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-113	NC	ng/L	0.015BC90J	0.015BC90J	0.0093QBC90J	0.018BC90J
PCB-114	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-119	NC	ng/L	0.018BC86J	0.015QBC86J	0.018QBC86J	0.013QBC86J
PCB-12/13	NC	ng/L	0.0034QBCJ	0.0036QBCJ	0.005QBCJ	0.0022QBCJ
PCB-120	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-121	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-122	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-123	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-124	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-126	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-127	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-128/162	NC	ng/L	0.038U	0.0017QCJ	0.0021CJ	0.013CJ
PCB-129	NC	ng/L	0.012BCJ	0.011QBCJ	0.012BCJ	0.068C
PCB-130	NC	ng/L	0.038U	0.039U	0.038U	0.0036QJ
PCB-131	NC	ng/L	0.038U	0.039U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
PCB-132/161	NC	ng/L	0.0056J	0.0051QJ	0.0053QJ	0.016QJ
PCB-133/142	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-134/143	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-135	NC	ng/L	0.0038QCJ	0.0048QCJ	0.0047QCJ	0.023QCJ
PCB-136	NC	ng/L	0.0017QJ	0.0031QJ	0.0017QJ	0.0091QJ
PCB-137	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-139/149	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-14	NC	ng/L	0.038U	0.039U	0.0014QJ	0.0018QBJ
PCB-140	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-141	NC	ng/L	0.0019QJ	0.0023QJ	0.0019J	0.014QJ
PCB-144	NC	ng/L	0.038U	0.039U	0.038U	0.0017QJ
PCB-145	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-146/165	NC	ng/L	0.038U	0.039U	0.038U	0.0093QJ
PCB-147	NC	ng/L	0.014QCJ	0.014CJ	0.013QCJ	0.051QC
PCB-148	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-149	NC	ng/L	0.014QC147J	0.014C147J	0.013QC147J	0.051QC147
PCB-15	NC	ng/L	0.0049QBJ	0.0076QBJ	0.0041QBJ	0.006QBJ
PCB-150	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-151	NC	ng/L	0.0038QC135J	0.0048QC135J	0.0047QC135J	0.023QC135J
PCB-152	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-153	NC	ng/L	0.0067QC83J	0.0073C83J	0.0062C83J	0.014C83J
PCB-154	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-155	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-156	NC	ng/L	0.038U	0.039U	0.0005QCJ	0.0033QCJ
PCB-157	NC	ng/L	0.038U	0.039U	0.00050QC156J	0.0033QC156J
PCB-158/160	NC	ng/L	0.038U	0.039U	0.038U	0.0042QJ
PCB-159	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-16/32	NC	ng/L	0.038B	0.045B	0.012QBJ	0.011J
PCB-166	NC	ng/L	0.038U	0.0017QC128J	0.0021C128J	0.013C128J
PCB-167	NC	ng/L	0.038U	0.039U	0.038U	0.0024QJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
PCB-168	NC	ng/L	0.0062QBC153J	0.0078QBC153J	0.0093BC153J	0.051C153
PCB-169	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-17	NC	ng/L	0.03BJ	0.031BJ	0.01BJ	0.0064QJ
PCB-170	NC	ng/L	0.038U	0.0018QJ	0.0013QJ	0.018J
PCB-171	NC	ng/L	0.038U	0.039U	0.038U	0.006CJ
PCB-172	NC	ng/L	0.038U	0.039U	0.038U	0.0023QJ
PCB-173	NC	ng/L	0.038U	0.039U	0.038U	0.0060C171J
PCB-174	NC	ng/L	0.038U	0.0028QJ	0.0024J	0.023J
PCB-175	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-176	NC	ng/L	0.038U	0.039U	0.038U	0.0023QJ
PCB-177	NC	ng/L	0.038U	0.039U	0.038U	0.012J
PCB-178	NC	ng/L	0.038U	0.039U	0.038U	0.0039QJ
PCB-179	NC	ng/L	0.0021QJ	0.039U	0.0013QJ	0.012J
PCB-18	NC	ng/L	0.077BC	0.09BC	0.029BCJ	0.023BCJ
PCB-180	NC	ng/L	0.038U	0.0034QCJ	0.0037CJ	0.045BC
PCB-181	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-182/187	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-183	NC	ng/L	0.038U	0.039U	0.0031QJ	0.033J
PCB-184	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-185	NC	ng/L	0.038U	0.039U	0.0010QC183J	0.016C183J
PCB-186	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-188	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-189	NC	ng/L	0.038U	0.039U	0.038U	0.0008QJ
PCB-19	NC	ng/L	0.02QJ	0.026J	0.01J	0.0044QJ
PCB-190	NC	ng/L	0.038U	0.039U	0.038U	0.004QJ
PCB-191	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-192	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-193	NC	ng/L	0.038U	0.0034QC180J	0.0037C180J	0.045BC180
PCB-194	NC	ng/L	0.038U	0.039U	0.038U	0.013QJ
PCB-195	NC	ng/L	0.038U	0.039U	0.038U	0.0047QJ

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
PCB-196/203	NC	ng/L	0.038U	0.039U	0.038U	0.0042J
PCB-197	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-198	NC	ng/L	0.038U	0.039U	0.0013QCJ	0.021CJ
PCB-199	NC	ng/L	0.038U	0.039U	0.0013QC198J	0.021C198J
PCB-2	NC	ng/L	0.0054BJ	0.0057BJ	0.005QBJ	0.0031BJ
PCB-20/21/33	NC	ng/L	0.018BCJ	0.022BCJ	0.014BCJ	0.01QBCJ
PCB-200	NC	ng/L	0.038U	0.039U	0.038U	0.0018QJ
PCB-201	NC	ng/L	0.038U	0.039U	0.038U	0.0024QJ
PCB-202	NC	ng/L	0.038U	0.039U	0.038U	0.0036QJ
PCB-204	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-205	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-206	NC	ng/L	0.038U	0.039U	0.038U	0.0099J
PCB-207	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-208	NC	ng/L	0.038U	0.039U	0.038U	0.0027QJ
PCB-22	NC	ng/L	0.0088QBJ	0.012BJ	0.0044QBJ	0.0035QBJ
PCB-23	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-24/27	NC	ng/L	0.0019J	0.039U	0.0009QJ	0.038U
PCB-25	NC	ng/L	0.0029J	0.0021J	0.0017QJ	0.038U
PCB-26	NC	ng/L	0.0044QCJ	0.0063CJ	0.0034CJ	0.0019QCJ
PCB-27	NC	ng/L	0.0039QJ	0.0032QJ	0.0023QJ	0.002QJ
PCB-29	NC	ng/L	0.0044QC26J	0.0063C26J	0.0034C26J	0.0019QC26J
PCB-3	NC	ng/L	0.0047BJ	0.0064BJ	0.005QBJ	0.0028QBJ
PCB-31	NC	ng/L	0.024BJ	0.025BJ	0.011QBJ	0.011QBJ
PCB-32	NC	ng/L	0.017BJ	0.016QBJ	0.0073QBJ	0.0054QBJ
PCB-33	NC	ng/L	0.016BC21J	0.015BC21J	0.0083BC21J	0.0085BC21J
PCB-34	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-35	NC	ng/L	0.038U	0.039U	0.001QJ	0.038U
PCB-36	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-37	NC	ng/L	0.038U	0.0034J	0.0029J	0.0021QBJ
PCB-38	NC	ng/L	0.038U	0.039U	0.038U	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
PCB-39	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-4/10	NC	ng/L	0.12QB	0.14B	0.031QBJ	0.018QBJ
PCB-40	NC	ng/L	0.0094QCJ	0.011CJ	0.0079CJ	0.0032BCJ
PCB-41/64/71/72	NC	ng/L	0.0094QC40J	0.011C40J	0.0079C40J	0.0032BC40J
PCB-42/59	NC	ng/L	0.0081QJ	0.0056J	0.0049J	0.038U
PCB-43/49	NC	ng/L	0.038U	0.039U	0.0011QCJ	0.038U
PCB-44	NC	ng/L	0.76BC	0.12BC	0.18BC	0.011QBCJ
PCB-45	NC	ng/L	0.25C	0.043C	0.037CJ	0.0025QCJ
PCB-46	NC	ng/L	0.005QJ	0.0046QJ	0.0017QJ	0.038U
PCB-47	NC	ng/L	0.76BC44	0.12BC44	0.18BC44	0.011QBC44J
PCB-48/75	NC	ng/L	0.0024J	0.0046J	0.038U	0.038U
PCB-49	NC	ng/L	0.022CJ	0.012CJ	0.0088QCJ	0.0062CJ
PCB-5	NC	ng/L	0.0038QJ	0.0045QJ	0.0027QJ	0.038U
PCB-50	NC	ng/L	0.01CJ	0.011CJ	0.0055CJ	0.0019QCJ
PCB-51	NC	ng/L	0.25C45	0.043C45	0.037C45J	0.0025QC45J
PCB-53	NC	ng/L	0.010C50J	0.011C50J	0.0055C50J	0.0019QC50J
PCB-54	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-55	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-56/60	NC	ng/L	0.0029QJ	0.0032QJ	0.0027QJ	0.0033J
PCB-57	NC	ng/L	0.0014QJ	0.039U	0.038U	0.038U
PCB-58	NC	ng/L	0.038U	0.0013QJ	0.038U	0.038U
PCB-6	NC	ng/L	0.013QBJ	0.015QBJ	0.008QBJ	0.0051QBJ
PCB-61/70	NC	ng/L	0.012BCJ	0.012BCJ	0.011BCJ	0.016BCJ
PCB-62	NC	ng/L	0.038U	0.0027QC59J	0.0013QC59J	0.038U
PCB-63	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-65	NC	ng/L	0.76BC44	0.12BC44	0.18BC44	0.011QBC44J
PCB-66	NC	ng/L	0.0052BJ	0.0052QBJ	0.006BJ	0.0067J
PCB-67	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-68	NC	ng/L	0.18	0.036J	0.018J	0.038U
PCB-69	NC	ng/L	0.022C49J	0.012C49J	0.0088QC49J	0.0062C49J

NOTES:

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
PCB-7/9	NC	ng/L	0.0038QBJ	0.0045QBJ	0.0025QBJ	0.0029QBJ
PCB-70	NC	ng/L	0.012BC61J	0.012BC61J	0.011BC61J	0.016BC61J
PCB-71	NC	ng/L	0.0094QC40J	0.011C40J	0.0079C40J	0.0032BC40J
PCB-73	NC	ng/L	0.038U	0.039U	0.0011QC43J	0.038U
PCB-74	NC	ng/L	0.012BC61J	0.012BC61J	0.011BC61J	0.016BC61J
PCB-76/66	NC	ng/L	0.012BC61J	0.012BC61J	0.011BC61J	0.016BC61J
PCB-77	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-78	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-79	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-8	NC	ng/L	0.037QBJ	0.046QBJ	0.016QBJ	0.011QBJ
PCB-80	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-81	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-82	NC	ng/L	0.038U	0.039U	0.0013QJ	0.002QJ
PCB-83	NC	ng/L	0.0067QCJ	0.0073CJ	0.0062CJ	0.014CJ
PCB-84/92	NC	ng/L	0.0099J	0.011J	0.0045QJ	0.0059QJ
PCB-85/116	NC	ng/L	0.0019QCJ	0.039U	0.0007QCJ	0.0044QCJ
PCB-86	NC	ng/L	0.018BCJ	0.015QBCJ	0.018QBCJ	0.013QBCJ
PCB-87	NC	ng/L	0.018BC86J	0.015QBC86J	0.018QBC86J	0.013QBC86J
PCB-88/91	NC	ng/L	0.0045CJ	0.0036CJ	0.0016CJ	0.0029QCJ
PCB-89	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-9	NC	ng/L	0.0066QJ	0.0071QJ	0.0033QJ	0.0017QBJ
PCB-90/101	NC	ng/L	0.015BCJ	0.015BCJ	0.0093QBCJ	0.018BCJ
PCB-92	NC	ng/L	0.0016QJ	0.0033QJ	0.0023J	0.0036QJ
PCB-93	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-94	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-95/98/102	NC	ng/L	0.044	0.041Q	0.02J	0.025J
PCB-96	NC	ng/L	0.038U	0.039U	0.038U	0.038U
PCB-97	NC	ng/L	0.018BC86J	0.015QBC86J	0.018QBC86J	0.013QBC86J
Total Di-CB	NC	ng/L	0.22EMPC	0.26EMPC	0.099EMPC,U	0.070EMPC,U
Total Hepta-CB	NC	ng/L	0.0021EMPC,J	0.0096EMPC,J	0.013EMPC,J	0.18EMPC

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 43
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3085-04 / SB915-MH-15 / 05/11/2012 / Regular sample	SB915-3085-02 / SB915-MH-16 / 05/11/2012 / Regular sample	SB915-3085-01 / SB915-MH-18 / 05/11/2012 / Regular sample	SB915-3083-07 / SB915-PCP-01 / 05/09/2012 / Regular sample
Total Hexa-CB	NC	ng/L	0.046EMPC	0.050EMPC,J	0.051EMPC,J	0.27EMPC
Total Mono-CB	NC	ng/L	0.041J	0.049J	0.017EMPC,U	0.016EMPC,U
Total Nona-CB	NC	ng/L	0.038U	0.039U	0.038U	0.013EMPC,J
Total Octa-CB	NC	ng/L	0.038U	0.039U	0.0013EMPC,J	0.061EMPC,J
Total Penta-CB	NC	ng/L	0.13EMPC	0.12EMPC	0.088EMPC,J	0.15EMPC,J
Total Tetra-CB	NC	ng/L	1.3EMPC	0.33EMPC	0.32EMPC	0.067EMPC,U
Total Tri-CB	NC	ng/L	0.26EMPC	0.30EMPC	0.12EMPC,U	0.090EMPC,U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 44
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083A-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083A-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3083A-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample
ALUMINUM	NC	mg/L	0.19J	NA	0.14J	NA	0.12J	NA	0.2U
ANTIMONY	0.003(S)	mg/L	0.01U	NA	0.01U	NA	0.01U	NA	0.01U
ARSENIC	0.025(S)	mg/L	0.0051J	NA	0.003J	NA	0.004J	NA	0.0028J
BARIUM	1(S)	mg/L	0.75	NA	0.73	NA	0.91	NA	[1]
BERYLLIUM	0.003(G)	mg/L	0.004U	NA	0.004U	NA	0.004U	NA	0.004U
BORON	1(S)	mg/L	0.2U	NA	0.2U	NA	0.2U	NA	0.2U
CADMIUM	0.005(S)	mg/L	0.005U	NA	0.005U	NA	0.005U	NA	0.005U
CALCIUM	NC	mg/L	1100	NA	1100	NA	1500	NA	2000B
CHROMIUM	0.05(S)	mg/L	0.005U	NA	0.005U	NA	0.005U	NA	0.005U
COBALT	NC	mg/L	0.05U	NA	0.05U	NA	0.05U	NA	0.05U
COPPER	0.2(S)	mg/L	0.025U	NA	0.025U	NA	0.025U	NA	0.025U
CYANIDE	0.2(S)	mg/L	0.01U	NA	0.01U	NA	0.0017J	NA	0.015
HEXAVALENT CHROMIUM	0.05(S)	mg/l	NA	0.01UJ	NA	0.01UJ	NA	0.01UJ	NA
IRON	0.3(S)	mg/L	0.073J	NA	0.031J	NA	0.077J	NA	0.047J
LEAD	0.025(S)	mg/L	0.015U	NA	0.003U	NA	0.003U	NA	0.003U
MAGNESIUM	35(G)	mg/L	5.6	NA	5.2	NA	5.4	NA	2.8J
MANGANESE	0.3(S)	mg/L	0.025	NA	0.014J	NA	0.036	NA	0.019
MERCURY	0.0007(S)	mg/L	0.000079	NA	0.000071	NA	0.000065	NA	0.000069
NICKEL	0.1(S)	mg/L	0.027J	NA	0.026J	NA	0.022J	NA	0.021J
POTASSIUM	NC	mg/L	65	NA	64J	NA	81	NA	89J
SELENIUM	0.01(S)	mg/L	0.005U	NA	0.005U	NA	0.005U	NA	0.005U
SILVER	0.05(S)	mg/L	0.005U	NA	0.005U	NA	0.005U	NA	0.005U
SODIUM	20(S)	mg/L	[1100]	NA	[1000]	NA	[1500]	NA	[1800]
THALLIUM	0.0005(G)	mg/L	0.01U	NA	0.01U	NA	0.01U	NA	0.01U
TIN	NC	mg/L	0.1U	NA	0.1U	NA	0.1U	NA	0.1U
VANADIUM	NC	mg/L	0.05U	NA	0.05U	NA	0.05U	NA	0.05U
ZINC	2(G)	mg/L	0.0059J	NA	0.02U	NA	0.02U	NA	0.02U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 44
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3084A-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084A-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3084A-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample	SB915-3085A-03 SB915-MH-07 05/11/2012 Regular sample
ALUMINUM	NC	mg/L	NA	0.2U	NA	0.2U	NA	0.2U	NA
ANTIMONY	0.003(S)	mg/L	NA	0.01U	NA	0.01U	NA	0.01U	NA
ARSENIC	0.025(S)	mg/L	NA	0.01U	NA	0.0028J	NA	0.0029J	NA
BARIUM	1(S)	mg/L	NA	0.99	NA	[1]	NA	[1]	NA
BERYLLIUM	0.003(G)	mg/L	NA	0.004U	NA	0.004U	NA	0.004U	NA
BORON	1(S)	mg/L	NA	0.2U	NA	0.2U	NA	0.2U	NA
CADMIUM	0.005(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	NA
CALCIUM	NC	mg/L	NA	1900B	NA	1900B	NA	2000B	NA
CHROMIUM	0.05(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	NA
COBALT	NC	mg/L	NA	0.05U	NA	0.05U	NA	0.05U	NA
COPPER	0.2(S)	mg/L	NA	0.0027J	NA	0.0032J	NA	0.011J	NA
CYANIDE	0.2(S)	mg/L	NA	0.01	NA	0.0093J	NA	0.0056J	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/l	0.01U	NA	0.01U	NA	0.01U	NA	0.01UJ
IRON	0.3(S)	mg/L	NA	0.073J	NA	0.051J	NA	0.018J	NA
LEAD	0.025(S)	mg/L	NA	0.003U	NA	0.003U	NA	0.003U	NA
MAGNESIUM	35(G)	mg/L	NA	2.7J	NA	2.6J	NA	1.7J	NA
MANGANESE	0.3(S)	mg/L	NA	0.015	NA	0.011J	NA	0.0066J	NA
MERCURY	0.0007(S)	mg/L	NA	0.000061	NA	0.000068	NA	0.00008	NA
NICKEL	0.1(S)	mg/L	NA	0.021J	NA	0.021J	NA	0.027J	NA
POTASSIUM	NC	mg/L	NA	87J	NA	89J	NA	89J	NA
SELENIUM	0.01(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	NA
SILVER	0.05(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	NA
SODIUM	20(S)	mg/L	NA	[1800]	NA	[1800]	NA	[1700]	NA
THALLIUM	0.0005(G)	mg/L	NA	0.01U	NA	0.01U	NA	0.01U	NA
TIN	NC	mg/L	NA	0.1U	NA	0.1U	NA	0.1U	NA
VANADIUM	NC	mg/L	NA	0.05U	NA	0.05U	NA	0.05U	NA
ZINC	2(G)	mg/L	NA	0.02U	NA	0.02U	NA	0.02U	NA

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 44
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084A-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084A-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3084A-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample
ALUMINUM	NC	mg/L	0.2U	NA	0.2U	NA	0.2U	NA	0.083J
ANTIMONY	0.003(S)	mg/L	0.01U	NA	0.01U	NA	0.01U	NA	0.01U
ARSENIC	0.025(S)	mg/L	0.01U	NA	0.01U	NA	0.01U	NA	0.01U
BARIUM	1(S)	mg/L	0.96	NA	0.97	NA	[1.2]	NA	[1.1]
BERYLLIUM	0.003(G)	mg/L	0.004U	NA	0.004U	NA	0.004U	NA	0.004U
BORON	1(S)	mg/L	0.2U	NA	0.2U	NA	0.2U	NA	0.2U
CADMIUM	0.005(S)	mg/L	0.005U	NA	0.005U	NA	0.005U	NA	0.005U
CALCIUM	NC	mg/L	1800B	NA	1800B	NA	2500B	NA	2400
CHROMIUM	0.05(S)	mg/L	0.005U	NA	0.005U	NA	0.005U	NA	0.005U
COBALT	NC	mg/L	0.00078J	NA	0.00055J	NA	0.0004J	NA	0.05U
COPPER	0.2(S)	mg/L	0.016J	NA	0.017J	NA	0.014J	NA	0.019J
CYANIDE	0.2(S)	mg/L	0.0077J	NA	0.0055J	NA	0.0066J	NA	0.0064J
HEXAVALENT CHROMIUM	0.05(S)	mg/l	NA	0.01U	NA	0.01U	NA	0.01U	NA
IRON	0.3(S)	mg/L	0.032J	NA	0.1U	NA	0.028J	NA	0.067J
LEAD	0.025(S)	mg/L	0.003U	NA	0.003U	NA	0.015U	NA	0.003U
MAGNESIUM	35(G)	mg/L	2.2J	NA	2J	NA	1.6J	NA	3.1J
MANGANESE	0.3(S)	mg/L	0.0061J	NA	0.0039J	NA	0.0096J	NA	0.025
MERCURY	0.0007(S)	mg/L	0.000059	NA	0.000059	NA	0.000092	NA	0.000092
NICKEL	0.1(S)	mg/L	0.027J	NA	0.028J	NA	0.023J	NA	0.023J
POTASSIUM	NC	mg/L	81J	NA	81J	NA	94J	NA	87
SELENIUM	0.01(S)	mg/L	0.005U	NA	0.005U	NA	0.005U	NA	0.005U
SILVER	0.05(S)	mg/L	0.005U	NA	0.005U	NA	0.005U	NA	0.005U
SODIUM	20(S)	mg/L	[1600]	NA	[1600]	NA	[1900]	NA	[1800]
THALLIUM	0.0005(G)	mg/L	0.01U	NA	0.01U	NA	0.01U	NA	0.01U
TIN	NC	mg/L	0.1U	NA	0.1U	NA	0.1U	NA	0.1U
VANADIUM	NC	mg/L	0.05U	NA	0.05U	NA	0.05U	NA	0.05U
ZINC	2(G)	mg/L	0.02U	NA	0.02U	NA	0.02U	NA	0.02U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 44
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3083A-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084A-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084A-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample
ALUMINUM	NC	mg/L	NA	0.2U	NA	0.2U	NA	0.2U	0.2U
ANTIMONY	0.003(S)	mg/L	NA	0.01U	NA	0.0021J	NA	0.01U	0.01U
ARSENIC	0.025(S)	mg/L	NA	0.01U	NA	0.01U	NA	0.01U	0.0047J
BARIUM	1(S)	mg/L	NA	[1.4]	NA	[1.4]	NA	[1.3]	0.68
BERYLLIUM	0.003(G)	mg/L	NA	0.004U	NA	0.004U	NA	0.004U	0.004U
BORON	1(S)	mg/L	NA	0.2U	NA	0.2U	NA	0.2U	0.2U
CADMIUM	0.005(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	0.005U
CALCIUM	NC	mg/L	NA	3200B	NA	3200B	NA	2800B	980B
CHROMIUM	0.05(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	0.005U
COBALT	NC	mg/L	NA	0.05U	NA	0.00045J	NA	0.05U	0.00075J
COPPER	0.2(S)	mg/L	NA	0.0076J	NA	0.0084J	NA	0.0068J	0.025U
CYANIDE	0.2(S)	mg/L	NA	0.0079J	NA	0.0061J	NA	0.0065J	0.01U
HEXAVALENT CHROMIUM	0.05(S)	mg/l	0.01UJ	NA	0.01U	NA	0.01U	0.01U	NA
IRON	0.3(S)	mg/L	NA	0.014J	NA	0.036J	NA	0.15	[0.62]
LEAD	0.025(S)	mg/L	NA	0.03U	NA	0.03U	NA	0.015U	0.003U
MAGNESIUM	35(G)	mg/L	NA	3.2J	NA	3.6J	NA	6.4	1.5J
MANGANESE	0.3(S)	mg/L	NA	0.071	NA	0.078	NA	0.15	0.14
MERCURY	0.0007(S)	mg/L	NA	0.000077	NA	0.000079	NA	0.000064	[0.0013]
NICKEL	0.1(S)	mg/L	NA	0.015J	NA	0.013J	NA	0.011J	0.044
POTASSIUM	NC	mg/L	NA	120J	NA	130J	NA	130J	66J
SELENIUM	0.01(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	0.005U
SILVER	0.05(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	0.005U
SODIUM	20(S)	mg/L	NA	[2100]	NA	[2100]	NA	[1900]	[560]
THALLIUM	0.0005(G)	mg/L	NA	0.01U	NA	0.01U	NA	0.01U	0.01U
TIN	NC	mg/L	NA	0.1U	NA	0.1U	NA	0.1U	0.1U
VANADIUM	NC	mg/L	NA	0.05U	NA	0.05U	NA	0.05U	0.05U
ZINC	2(G)	mg/L	NA	0.02U	NA	0.02U	NA	0.02U	0.02U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 44
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085A-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085A-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3085A-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample	SB915-3083A-07 SB915-PCP-01 05/09/2012 Regular sample
ALUMINUM	NC	mg/L	NA	0.26B	NA	0.2U	NA	0.2	NA
ANTIMONY	0.003(S)	mg/L	NA	0.01U	NA	0.01U	NA	0.01U	NA
ARSENIC	0.025(S)	mg/L	NA	0.0035J	NA	0.0065J	NA	0.01U	NA
BARIUM	1(S)	mg/L	NA	0.68	NA	[1.1]	NA	0.41	NA
BERYLLIUM	0.003(G)	mg/L	NA	0.004U	NA	0.004U	NA	0.004U	NA
BORON	1(S)	mg/L	NA	0.2U	NA	0.2U	NA	0.2U	NA
CADMIUM	0.005(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	NA
CALCIUM	NC	mg/L	NA	1000B	NA	1300B	NA	1300	NA
CHROMIUM	0.05(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	NA
COBALT	NC	mg/L	NA	0.00071J	NA	0.05U	NA	0.05U	NA
COPPER	0.2(S)	mg/L	NA	0.025U	NA	0.025U	NA	0.0031J	NA
CYANIDE	0.2(S)	mg/L	NA	0.01U	NA	0.0067J	NA	0.0038J	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/l	0.01UJ	NA	0.01UJ	NA	0.01UJ	NA	0.01UJ
IRON	0.3(S)	mg/L	NA	[0.81]	NA	0.041J	NA	[0.42]	NA
LEAD	0.025(S)	mg/L	NA	0.003U	NA	0.003U	NA	0.003U	NA
MAGNESIUM	35(G)	mg/L	NA	1.7J	NA	20	NA	11	NA
MANGANESE	0.3(S)	mg/L	NA	0.16	NA	0.014J	NA	[0.49]	NA
MERCURY	0.0007(S)	mg/L	NA	[0.0013]	NA	0.00067	NA	0.0000086	NA
NICKEL	0.1(S)	mg/L	NA	0.045	NA	0.079	NA	0.0046J	NA
POTASSIUM	NC	mg/L	NA	66J	NA	73J	NA	61	NA
SELENIUM	0.01(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	NA
SILVER	0.05(S)	mg/L	NA	0.005U	NA	0.005U	NA	0.005U	NA
SODIUM	20(S)	mg/L	NA	[560]	NA	[1200]	NA	[620]	NA
THALLIUM	0.0005(G)	mg/L	NA	0.01U	NA	0.01U	NA	0.01U	NA
TIN	NC	mg/L	NA	0.1U	NA	0.1U	NA	0.1U	NA
VANADIUM	NC	mg/L	NA	0.05U	NA	0.0034J	NA	0.05U	NA
ZINC	2(G)	mg/L	NA	0.02U	NA	0.02U	NA	0.02U	NA

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 45
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
1,2,3,4,6,7,8-HPCDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
1,2,3,4,7,8,9-HPCDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
1,2,3,4,7,8-HXCDD	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
1,2,3,4,7,8-HXCDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
1,2,3,6,7,8-HXCDD	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
1,2,3,6,7,8-HXCDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
1,2,3,7,8,9-HXCDD	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
1,2,3,7,8,9-HXCDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
1,2,3,7,8-PECDD	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
1,2,3,7,8-PECDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
2,3,4,6,7,8-HXCDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
2,3,4,7,8-PECDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
2,3,7,8-TCDD	NC	ng/L	0.0094U	0.0094U	0.0096U	0.0094U	0.0094U	0.0094U	0.0094U
2,3,7,8-TCDF	NC	ng/L	0.0094U	0.0094U	0.0096U	0.0094U	0.0094U	0.0094U	0.0094U
OCDD	NC	ng/L	0.0044EMPC,J	0.094U	0.0014EMPC,J	0.094U	0.094U	0.094U	0.094U
OCDF	NC	ng/L	0.094U	0.094U	0.096U	0.094U	0.094U	0.094U	0.094U
TOTAL HPCDD	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
TOTAL HPCDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
TOTAL HXCDD	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
TOTAL HXCDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
TOTAL PECDD	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
TOTAL PECDF	NC	ng/L	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U	0.047U
TOTAL TCDD	NC	ng/L	0.0094U	0.0094U	0.0096U	0.0094U	0.0094U	0.0094U	0.0094U
Total TCDF	NC	ng/L	0.0094U	0.0094U	0.0096U	0.01BJQ	0.013QB	0.01BJ	0.0094BJ

NOTES:

J = Estimated result as value is below the Minimum Level; U = Analyte not detected; B = Analyte detected in the method blank; Q = Estimate maximum possible concentration.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 45
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
1,2,3,4,6,7,8-HPCDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
1,2,3,4,7,8,9-HPCDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
1,2,3,4,7,8-HXCDD	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
1,2,3,4,7,8-HXCDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
1,2,3,6,7,8-HXCDD	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
1,2,3,6,7,8-HXCDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
1,2,3,7,8,9-HXCDD	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
1,2,3,7,8,9-HXCDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
1,2,3,7,8-PECDD	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
1,2,3,7,8-PECDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
2,3,4,6,7,8-HXCDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
2,3,4,7,8-PECDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
2,3,7,8-TCDD	NC	ng/L	0.0094U	0.0095U	0.0095U	0.0095U	0.0095U	0.0094U	0.0094U
2,3,7,8-TCDF	NC	ng/L	0.0094U	0.0095U	0.0095U	0.0095U	0.0095U	0.0094U	0.0094U
OCDD	NC	ng/L	0.094U	0.095U	0.095U	0.095U	0.0014J	0.094U	0.094U
OCDF	NC	ng/L	0.094U	0.095U	0.095U	0.095U	0.095U	0.094U	0.094U
TOTAL HPCDD	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
TOTAL HPCDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
TOTAL HXCDD	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.0013QJ	0.047U
TOTAL HXCDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
TOTAL PECDD	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
TOTAL PECDF	NC	ng/L	0.047U	0.047U	0.047U	0.048U	0.047U	0.047U	0.047U
TOTAL TCDD	NC	ng/L	0.0094U	0.0095U	0.0095U	0.0095U	0.0095U	0.0094U	0.0094U
Total TCDF	NC	ng/L	0.013QBJ	0.0095QBJ	0.0095QBJ	0.0095U	0.0095BJQ	0.0094QBJ	0.0094BJ

NOTES:

J = Estimated result as value is below the Minimum Level; U = Analyte not detected; B = Analyte detected in the method blank; Q = Estimate maximum possible concentration.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 45
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	ng/L	0.047U	0.048U	0.047U	0.047U
1,2,3,4,6,7,8-HPCDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
1,2,3,4,7,8,9-HPCDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
1,2,3,4,7,8-HXCDD	NC	ng/L	0.047U	0.048U	0.047U	0.047U
1,2,3,4,7,8-HXCDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
1,2,3,6,7,8-HXCDD	NC	ng/L	0.047U	0.048U	0.047U	0.047U
1,2,3,6,7,8-HXCDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
1,2,3,7,8,9-HXCDD	NC	ng/L	0.047U	0.048U	0.047U	0.047U
1,2,3,7,8,9-HXCDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
1,2,3,7,8-PECDD	NC	ng/L	0.047U	0.048U	0.047U	0.047U
1,2,3,7,8-PECDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
2,3,4,6,7,8-HXCDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
2,3,4,7,8-PECDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
2,3,7,8-TCDD	NC	ng/L	0.0095U	0.0097U	0.0094U	0.0094U
2,3,7,8-TCDF	NC	ng/L	0.0095U	0.0097U	0.0094U	0.0094U
OCDD	NC	ng/L	0.095U	0.097U	0.094QBJ	0.0052EMPC,J
OCDF	NC	ng/L	0.095U	0.097U	0.094U	0.094U
TOTAL HPCDD	NC	ng/L	0.047U	0.048U	0.047U	0.00077BQJ
TOTAL HPCDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
TOTAL HXCDD	NC	ng/L	0.047U	0.048U	0.047U	0.047U
TOTAL HXCDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
TOTAL PECDD	NC	ng/L	0.047U	0.048U	0.047U	0.047U
TOTAL PECDF	NC	ng/L	0.047U	0.048U	0.047U	0.047U
TOTAL TCDD	NC	ng/L	0.0095U	0.0097U	0.0094U	0.0094U
Total TCDF	NC	ng/L	0.0072QBJ	0.0097QBJ	0.0094QBJ	0.0094U

NOTES:

J = Estimated result as value is below the Minimum Level; U = Analyte not detected; B = Analyte detected in the method blank; Q = Estimate maximum possible concentration.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 46
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-3083-01 SB915-MH-01 05/09/2012 Regular sample	SB915-3083-02 SB915-MH-02 05/09/2012 Regular sample	SB915-3083-03 SB915-MH-03 05/09/2012 Regular sample	SB915-3084-01 SB915-MH-04 05/10/2012 Regular sample	SB915-3084-02 SB915-MH-05 05/10/2012 Regular sample	SB915-3084-03 SB915-MH-06 05/10/2012 Regular sample	SB915-3085-03 SB915-MH-07 05/11/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		19B	16B	13B	5.0U	5.0U	5.0U	5.0U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.3	12	13	42	42	39	80
ALKALINITY, TOTAL	NC	mg/L		24B	28B	26B	52B	54B	46B	220B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		30	30	24	19J	26	31	31
BROMIDE	2(G)	mg/L		[2.3]	[2.3]	[2.6]	[2.7]	[2.7]	[2.7]	[2.9]
CHEMICAL OXYGEN DEMAND	NC	mg/L		68J	68J	70J	110J	100J	9.7J	66J
CHLORIDE	250(S)	mg/L		[3500]	[3500]	[4900]	[6700B]	[6200B]	[6600B]	[6100]
HARDNESS (AS CACO3)	NC	mg/L		3000	2900	3900	5200	5100	5000	5100
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[8.1]	[8.1]	[7.4]	[8.1]	[7.5]	[7.8]	[9.9]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		17J	17J	14J	17J	17J	25U	20J
NITROGEN, NITRATE (AS N)	10(S)	mg/L		0.50U	0.50U	0.50U	0.50U	0.50U	0.50U	0.50U
NITROGEN, NITRITE	1(S)	mg/L		0.50UJ	0.50UJ	0.50UJ	0.50UJ	0.50UJ	0.50UJ	0.50UJ
SULFATE	250(S)	mg/L		27	20	21	21	17	18	19
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		6200	6400	9000	13000	13000	13000	17000
TOTAL ORGANIC CARBON	NC	mg/L		13J	13J	9.8J	7.6J	7.8J	8.2J	13J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.64J]	[0.67J]	[0.54J]	[0.53J]	[0.48J]	[0.46J]	[0.56J]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B = Analyte detected ib blank sample.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 46
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		47	51	52	54	40	71	65
ALKALINITY, TOTAL	NC	mg/L		97B	110B	130B	130B	67B	200B	140B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		35	32	32	25	22J	18	17
BROMIDE	2(G)	mg/L		[2.9]	[2.8]	[5.8]	[3.0]	[5.8]	[5.8]	[5.7]
CHEMICAL OXYGEN DEMAND	NC	mg/L		260J	97J	120J	120J	10U	10U	10U
CHLORIDE	250(S)	mg/L		[5900B]	[5800B]	[8300B]	[6600]	[9600B]	[9300B]	[8600B]
HARDNESS (AS CACO3)	NC	mg/L		4900	4700	6600	6300	8200	8000	7500
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[8.9]	[4.9]	[7.8]	[6.4]	[5.2]	[6.8]	[5.2]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		17J	23J	14J	14J	20J	25U	25U
NITROGEN, NITRATE (AS N)	10(S)	mg/L		0.50U	0.50U	1.3U	0.50U	1.3U	1.3U	1.4
NITROGEN, NITRITE	1(S)	mg/L		0.50UJ	0.50UJ	1.3UJ	0.50UJ	1.3UJ	1.3UJ	1.3UJ
SULFATE	250(S)	mg/L		20	17	18J	16	20J	18J	21J
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		12000	11000	18000	13000	19000	17000	17000
TOTAL ORGANIC CARBON	NC	mg/L		12J	13J	11J	12J	7.0J	7.0J	6.1J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.51J]	[0.43J]	[0.37J]	[0.29J]	[0.24J]	[0.25J]	[0.22J]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B = Analyte detected ib blank sample.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 46
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	210B	14B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	85	87	5.0U	15
ALKALINITY, TOTAL	NC	mg/L	190B	170B	210B	29B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	35	44	130	3.3
BROMIDE	2(G)	mg/L	1.4	1.4	[2.6]	1.6
CHEMICAL OXYGEN DEMAND	NC	mg/L	85J	70J	350J	35J
CHLORIDE	250(S)	mg/L	[2600]	[2700]	[4400]	[3200]
HARDNESS (AS CACO3)	NC	mg/L	2500	2600	3600	64
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[24]	[23]	[37]	0.89
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	28	34	45	25U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.25U	0.25U	0.59J	0.31
NITROGEN, NITRITE	1(S)	mg/L	0.25UJ	0.25UJ	0.50R	0.25UJ
SULFATE	250(S)	mg/L	38	38	160	31
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	7200	7600	9800	5800
TOTAL ORGANIC CARBON	NC	mg/L	21J	21J	37J	7.3J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.81J]	[0.84J]	[3.1J]	[0.0084J]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B = Analyte detected ib blank sample.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 47
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-3083-01	SB915-3083-02	SB915-3083-03	SB915-3084-01	SB915-3084-02	SB915-3084-03	SB915-3085-03
		Location	SB915-MH-01	SB915-MH-02	SB915-MH-03	SB915-MH-04	SB915-MH-05	SB915-MH-06	SB915-MH-07
		Sample Date	05/09/2012	05/09/2012	05/09/2012	05/10/2012	05/10/2012	05/10/2012	05/11/2012
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units							
1,2,3,4,6,7,8-HPCDD	0.01	ng/L	---	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	ng/L	---	---	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	ng/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	ng/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	ng/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	ng/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	ng/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	ng/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	ng/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDD	1	ng/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	ng/L	---	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	ng/L	---	---	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	ng/L	---	---	---	---	---	---	---
2,3,7,8-TCDD	1	ng/L	---	---	---	---	---	---	---
2,3,7,8-TCDF	0.1	ng/L	---	---	---	---	---	---	---
OCDD	0.0003	ng/L	0.00000132	---	0.00000042	---	---	---	---
OCDF	0.0003	ng/L	---	---	---	---	---	---	---
Total TEQ		ng/L	0.00000132	0	0.00000042	0	0	0	0

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 47
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8290 Dioxins/Furans Equivalence Summary Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3084-04 SB915-MH-08 05/10/2012 Regular sample	SB915-3084-05 SB915-MH-09 05/10/2012 Regular sample	SB915-3084-07 SB915-MH-10 05/10/2012 Regular sample	SB915-3083-04 SB915-MH-11 05/09/2012 Regular sample	SB915-3084-08 SB915-MH-12 05/10/2012 Regular sample	SB915-3084-09 SB915-MH-13 05/10/2012 Regular sample	SB915-3084-10 SB915-MH-14 05/10/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	ng/L	---	---	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	NC	ng/L	---	---	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	NC	ng/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDD	NC	ng/L	---	---	---	---	---	---	---
1,2,3,4,7,8-HXCDF	NC	ng/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDD	NC	ng/L	---	---	---	---	---	---	---
1,2,3,6,7,8-HXCDF	NC	ng/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDD	NC	ng/L	---	---	---	---	---	---	---
1,2,3,7,8,9-HXCDF	NC	ng/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDD	NC	ng/L	---	---	---	---	---	---	---
1,2,3,7,8-PECDF	NC	ng/L	---	---	---	---	---	---	---
2,3,4,6,7,8-HXCDF	NC	ng/L	---	---	---	---	---	---	---
2,3,4,7,8-PECDF	NC	ng/L	---	---	---	---	---	---	---
2,3,7,8-TCDD	NC	ng/L	---	---	---	---	---	---	---
2,3,7,8-TCDF	NC	ng/L	---	---	---	---	---	---	---
OCDD	NC	ng/L	---	---	---	---	0.00000042	---	---
OCDF	NC	ng/L	---	---	---	---	---	---	---
Total TCDF	NC	ng/L	0	0	0	0	0.00000042	0	0

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 47
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Subsurface Leachate
Method 8290 Dioxins/Furans Equivalence Summary Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3085-04 SB915-MH-15 05/11/2012 Regular sample	SB915-3085-02 SB915-MH-16 05/11/2012 Regular sample	SB915-3085-01 SB915-MH-18 05/11/2012 Regular sample	SB915-3083-07 SB915-PCP-01 05/09/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	NC	ng/L	---	---	---	---
1,2,3,4,6,7,8-HPCDF	NC	ng/L	---	---	---	---
1,2,3,4,7,8,9-HPCDF	NC	ng/L	---	---	---	---
1,2,3,4,7,8-HXCDD	NC	ng/L	---	---	---	---
1,2,3,4,7,8-HXCDF	NC	ng/L	---	---	---	---
1,2,3,6,7,8-HXCDD	NC	ng/L	---	---	---	---
1,2,3,6,7,8-HXCDF	NC	ng/L	---	---	---	---
1,2,3,7,8,9-HXCDD	NC	ng/L	---	---	---	---
1,2,3,7,8,9-HXCDF	NC	ng/L	---	---	---	---
1,2,3,7,8-PECDD	NC	ng/L	---	---	---	---
1,2,3,7,8-PECDF	NC	ng/L	---	---	---	---
2,3,4,6,7,8-HXCDF	NC	ng/L	---	---	---	---
2,3,4,7,8-PECDF	NC	ng/L	---	---	---	---
2,3,7,8-TCDD	NC	ng/L	---	---	---	---
2,3,7,8-TCDF	NC	ng/L	---	---	---	---
OCDD	NC	ng/L	---	---	---	0.00000156
OCDF	NC	ng/L	---	---	---	---
Total TCDF	NC	ng/L	0	0	0	0.00000156

NOTES:
TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.
--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 48
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3090-01 SB915-MH-01 08/22/2012 Regular sample	SB915-3090-02 SB915-MH-02 08/22/2012 Regular sample	SB915-3090-03 SB915-MH-03 08/22/2012 Regular sample	SB915-3090-05 SB915-MH-04 08/22/2012 Regular sample	SB915-3090-06 SB915-MH-05 08/22/2012 Regular sample	SB915-3090-09 SB915-MH-06 08/22/2012 Regular sample	SB915-3090-10 SB915-MH-07 08/22/2012 Regular sample
ALUMINUM	NC	mg/L	2U	2U	2U	2U	2U	2U	2U
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	1(S)	mg/L	2U	2U	[2.5]	[2.3]	[2.3]	[2.4]	[2.4]
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	1(S)	mg/L	2U	2U	2U	2U	2U	2U	2U
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	2100	1900	4700	4700	4800	4900	5000
CHROMIUM	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
COBALT	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	0.2(S)	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
IRON	0.3(S)	mg/L	1U	1U	1U	1U	1U	1U	[2.2]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	50U	50U	50U	50U	50U	50U	50U
MANGANESE	0.3(S)	mg/L	0.15U	0.15U	0.15U	0.15U	0.15U	0.15U	0.26
NICKEL	0.1(S)	mg/L	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
POTASSIUM	NC	mg/L	92J	84J	150J	140J	140J	140J	140J
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)	mg/L	[1900]	[1700]	[4100]	[4100]	[4100]	[4200]	[4100]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	mg/L	1U	1U	1U	1U	1U	1U	1U
VANADIUM	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
ZINC	2(G)	mg/L	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 48
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3090-11 SB915-MH-08 08/22/2012 Regular sample	SB915-3091-01 SB915-MH-09 08/23/2012 Regular sample	SB915-3091-03 SB915-MH-10 08/23/2012 Regular sample	SB915-3091-02 SB915-MH-11 08/23/2012 Regular sample	SB915-3091-04 SB915-MH-12 08/23/2012 Regular sample	SB915-3091-05 SB915-MH-13 08/23/2012 Regular sample	SB915-3091-06 SB915-MH-14 08/23/2012 Regular sample
ALUMINUM	NC	mg/L	2U	2U	2U	2U	2U	2U	2U
ANTIMONY	0.003(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.025(S)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	1(S)	mg/L	[2.3]	[2.6]	[2.2]	[2.9]	[3.3]	[3]	[3.6]
BERYLLIUM	0.003(G)	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	1(S)	mg/L	2U	2U	2U	2U	2U	2U	2U
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	4700	5400	5200	7400	7400	6700	7900
CHROMIUM	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
COBALT	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	0.2(S)	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U	0.25U
IRON	0.3(S)	mg/L	1U	[1.3]	1U	1U	1U	1U	1U
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	50U	50U	50U	50U	50U	50U	50U
MANGANESE	0.3(S)	mg/L	0.15U	[0.35]	0.15U	0.15U	[0.3]	0.28	[0.53]
NICKEL	0.1(S)	mg/L	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U	0.4U
POTASSIUM	NC	mg/L	140J	150J	130J	170J	200J	190J	230J
SELENIUM	0.01(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)	mg/L	[4000]	[4300]	[3700]	[4700]	[4900]	[4400]	[5300]
THALLIUM	0.0005(G)	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	mg/L	1U	1U	1U	1U	1U	1U	1U
VANADIUM	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U	0.5U
ZINC	2(G)	mg/L	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U	0.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 48
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose	Units	SB915-3090-11 SB915-MH-08 08/22/2012 Regular sample	SB915-3091-07 SB915-MH-15 08/23/2012 Regular sample	SB915-3091-08 SB915-MH-16 08/23/2012 Regular sample	SB915-3091-09 SB915-MH-18 08/23/2012 Regular sample
ALUMINUM	NC		mg/L	2U	2U	2U	2U
ANTIMONY	0.003(S)		mg/L	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.025(S)		mg/L	0.1U	0.1U	0.1U	0.1U
BARIUM	1(S)		mg/L	[2.3]	[2.6]	2U	2U
BERYLLIUM	0.003(G)		mg/L	0.04U	0.04U	0.04U	0.04U
BORON	1(S)		mg/L	2U	2U	2U	2U
CADMIUM	0.005(S)		mg/L	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC		mg/L	4700	5600	1300	1900
CHROMIUM	0.05(S)		mg/L	0.05U	0.05U	0.05U	0.05U
COBALT	NC		mg/L	0.5U	0.5U	0.5U	0.5U
COPPER	0.2(S)		mg/L	0.25U	0.25U	0.25U	0.25U
IRON	0.3(S)		mg/L	1U	1U	[7.4]	1U
LEAD	0.025(S)		mg/L	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)		mg/L	50U	50U	50U	50U
MANGANESE	0.3(S)		mg/L	0.15U	[0.63]	[0.36]	0.15U
NICKEL	0.1(S)		mg/L	0.4U	0.4U	0.4U	0.4U
POTASSIUM	NC		mg/L	140J	160J	59J	88J
SELENIUM	0.01(S)		mg/L	0.05U	0.05U	0.05U	0.05U
SILVER	0.05(S)		mg/L	0.05U	0.05U	0.05U	0.05U
SODIUM	20(S)		mg/L	[4000]	[3900]	[1200]	[1800]
THALLIUM	0.0005(G)		mg/L	0.1U	0.1U	0.1U	0.1U
TIN	NC		mg/L	1U	1U	1U	1U
VANADIUM	NC		mg/L	0.5U	0.5U	0.5U	0.5U
ZINC	2(G)		mg/L	0.2U	0.2U	0.2U	0.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 49
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID / Location / Sample Date / Sample Purpose	SB915-3090-01 / SB915-MH-01 / 08/22/2012 / Regular sample	SB915-3090-02 / SB915-MH-02 / 08/22/2012 / Regular sample	SB915-3090-03 / SB915-MH-03 / 08/22/2012 / Regular sample	SB915-3090-05 / SB915-MH-04 / 08/22/2012 / Regular sample	SB915-3090-06 / SB915-MH-05 / 08/22/2012 / Regular sample	SB915-3090-09 / SB915-MH-06 / 08/22/2012 / Regular sample	SB915-3090-10 / SB915-MH-07 / 08/22/2012 / Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	5.0U	5.0U	41	24
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		65	64	57	47	36	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L		120	130	120	160	98	41	24
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		44	44	17	12	11	16	25
BROMIDE	2(G)	mg/L		[2.3]	2.0U	[5.3]	[5.3]	[5.2]	[5.2]	[5.0]
CHEMICAL OXYGEN DEMAND	NC	mg/L		1100	900	2000	2100	1400	2800	2000
CHLORIDE	250(S)	mg/L		[6700]	[6100]	[16000]	[17000]	[16000]	[16000]	[16000]
HARDNESS (AS CACO3)	NC	mg/L		5600	5000	12000	12000	12000	12000	13000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[11]	[11]	[9.5]	[7.1]	[8.3]	[9]	[8.3]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		15	14	12	9	7.3	14	13
NITROGEN, NITRATE (AS N)	10(S)	mg/L		0.50U	0.50U	1.3U	1.3U	1.7	1.3U	1.3U
SULFATE	250(S)	mg/L		19	20	34	28	28	30	31
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		15000	13000	33000	34000	34000	35000	37000
TOTAL ORGANIC CARBON	NC	mg/L		12J	13J	4.8J	5.3J	3.9J	3.8J	6.0J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.78J]	[0.17J]	[0.28J]	[0.81J]	[0.16J]	[0.13J]	[0.12J]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 49
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID / Location / Sample Date / Sample Purpose	SB915-3090-11 / SB915-MH-08 / 08/22/2012 / Regular sample	SB915-3091-01 / SB915-MH-09 / 08/23/2012 / Regular sample	SB915-3091-03 / SB915-MH-10 / 08/23/2012 / Regular sample	SB915-3091-02 / SB915-MH-11 / 08/23/2012 / Regular sample	SB915-3091-04 / SB915-MH-12 / 08/23/2012 / Regular sample	SB915-3091-05 / SB915-MH-13 / 08/23/2012 / Regular sample	SB915-3091-06 / SB915-MH-14 / 08/23/2012 / Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		32	7.5	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	8.3	65	69	74	68	53
ALKALINITY, TOTAL	NC	mg/L		32	16	300	360	270	250	210
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		24	24U	13	14	14	12	11
BROMIDE	2(G)	mg/L		[5.2]	10U	10U	10U	10U	10U	10U
CHEMICAL OXYGEN DEMAND	NC	mg/L		2200	1600	2100	2100	2100	2300	2100
CHLORIDE	250(S)	mg/L		[15000]	[16000]	[18000]	[20000]	[26000]	[22000]	[18000]
HARDNESS (AS CACO3)	NC	mg/L		12000	13000	15000	18000	19000	19000	19000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[8.8]	[8.8]	[7.8]	[8.4]	[9.5]	[7.4]	[6.7]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		11	13	12	11	110	9.6	9
NITROGEN, NITRATE (AS N)	10(S)	mg/L		1.3U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U
SULFATE	250(S)	mg/L		30	50U	50U	50U	50U	50U	50U
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		36000	36000	40000	42000	54000	51000	44000
TOTAL ORGANIC CARBON	NC	mg/L		6.8J	12J	4.6J	4.0J	4.3J	3.9J	3.6J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.12J]	[0.12J]	[0.10J]	[0.078J]	[0.11J]	[0.070J]	[0.059J]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 49
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-3090-11 SB915-MH-08 08/22/2012 Regular sample	SB915-3091-07 SB915-MH-15 08/23/2012 Regular sample	SB915-3091-08 SB915-MH-16 08/23/2012 Regular sample	SB915-3091-09 SB915-MH-18 08/23/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		32	5.0U	200	250
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	53	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L		32	180	200	250
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		24	9.5	44	120U
BROMIDE	2(G)	mg/L		[5.2]	10U	2.0U	[2.1]
CHEMICAL OXYGEN DEMAND	NC	mg/L		2200	2000	730	690
CHLORIDE	250(S)	mg/L		[15000]	[20000]	[4100]	[5500]
HARDNESS (AS CACO3)	NC	mg/L		12000	18000	3600	4000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[8.8]	[7.8]	[35]	[46]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		11	11	43	55
NITROGEN, NITRATE (AS N)	10(S)	mg/L		1.3U	2.5U	3	0.50U
SULFATE	250(S)	mg/L		30	50U	230	32
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		36000	45000	12000	14000
TOTAL ORGANIC CARBON	NC	mg/L		6.8J	3.9J	17J	18J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.12J]	[0.061J]	[0.83J]	[1.8J]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 50
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8260 Volatile Organic Compound Data

		Field Sample ID	SB915-3104-01
		Location	SB915-MH-17
	NYS	Sample Date	12/11/2012
	Class GA	Sample Purpose	Regular sample
Parameter Name	Criteria	Units	
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0U
2-BUTANONE	50(G)	µg/L	5.0U
2-HEXANONE	50(G)	µg/L	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U
ACETONE	50(G)	µg/L	5.0U
ACETONITRILE	NC	µg/L	20U
ACROLEIN	NC	µg/L	20U
ACRYLONITRILE	NC	µg/L	20U
ALLYL CHLORIDE	NC	µg/L	1.0U
BENZENE	1(S)	µg/L	1.0U
BROMOCHLOROMETHANE	NC	µg/L	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U
BROMOFORM	50(G)	µg/L	1.0U
BROMOMETHANE	5(S)	µg/L	1.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 50
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3104-01 / SB915-MH-17 / 12/11/2012 / Regular sample
CARBON DISULFIDE	60(G)	µg/L	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U
CHLOROFORM	7(S)	µg/L	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U
CHLOROPRENE	NC	µg/L	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U
ETHYL CYANIDE	NC	µg/L	2.0U
ETHYL METHACRYLATE	NC	µg/L	1.0U
ETHYLBENZENE	5(S)	µg/L	1.0U
IODOMETHANE	NC	µg/L	1.0U
ISOBUTANOL	NC	µg/L	40U
METHYL METHACRYLATE	NC	µg/L	1.0U
METHYLENE CHLORIDE	5(S)	µg/L	1.0U
STYRENE	5(S)	µg/L	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U
TOLUENE	5(S)	µg/L	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U
VINYL ACETATE	NC	µg/L	1.0U
VINYL CHLORIDE	2(S)	µg/L	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 51
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

		Field Sample ID	SB915-3104-01
		Location	SB915-MH-17
	NYS	Sample Date	12/11/2012
	Class GA	Sample Purpose	Regular sample
Parameter Name	Criteria	Units	
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	25U
1,2,3-TRICHLOROPROPENE	NC	µg/L	21UJ
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	4.9U
1,3,5-TRINITROBENZENE	NC	µg/L	4.9U
1,3-DINITROBENZENE	NC	µg/L	4.9U
1,4-NAPHTHOQUINONE	NC	µg/L	4.9U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.98U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	4.9U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	4.9U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	4.9U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.98U
2,4-DIMETHYLPHENOL	50(G)	µg/L	4.9U
2,4-DINITROPHENOL	10(G)	µg/L	25U
2,4-DINITROTOLUENE	5(S)	µg/L	4.9U
2,6-DICHLOROPHENOL	NC	µg/L	4.9U
2,6-DINITROTOLUENE	5(S)	µg/L	4.9U
2-ACETYLAMINOFLUORENE	NC	µg/L	4.9U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.98U
2-CHLOROPHENOL	1(S)	µg/L	4.9U
2-METHYLNAPHTHALENE	NC	µg/L	0.98U
2-METHYLPHENOL	1(S)	µg/L	4.9U
2-NAPHTHYLAMINE	NC	µg/L	4.9UJ
2-NITROANILINE	5(S)	µg/L	25U
2-NITROPHENOL	1(S)	µg/L	4.9U
3&4-METHYLPHENOL	NC	µg/L	5.9
3,3'-DICHLOROBENZIDINE	NC	µg/L	4.9U
3-METHYLCHOLANTHRENE	NC	µg/L	4.9U
3-NITROANILINE	5(S)	µg/L	25U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	25U
4-AMINOBIPHENYL	NC	µg/L	4.9U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 51
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	4.9U
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	4.9U
4-CHLOROANILINE	5(S)	µg/L	4.9U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	4.9U
4-NITROANILINE	5(S)	µg/L	25U
4-NITROPHENOL	1(S)	µg/L	25U
5-NITRO-O-TOLUIDINE	NC	µg/L	4.9U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	4.9U
ACENAPHTHENE	20(G)	µg/L	0.98U
ACENAPHTHYLENE	NC	µg/L	0.98U
ACETOPHENONE	NC	µg/L	4.9U
ALPHA-NAPHTHYLAMINE	NC	µg/L	4.9U
ANTHRACENE	50(G)	µg/L	0.98U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	4.9U
CHLOROBENZILATE	NC	µg/L	4.9U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.98U
BENZO(A)PYRENE	NC	µg/L	0.98U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.98U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.98U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.98U
BENZYL ALCOHOL	NC	µg/L	4.9U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	4.9UJ
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.98U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	9.8U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	4.9U
DIALLATE	NC	µg/L	4.9U
CHRYSENE	0.002(G)	µg/L	0.98U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.98U
DIBENZOFURAN	NC	µg/L	4.9U
DIETHYL PHTHALATE	50(G)	µg/L	4.9U
DIMETHYL PHTHALATE	50(G)	µg/L	4.9U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	4.9U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 51
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample
DI-N-OCTYL PHTHALATE	50(G)	µg/L	4.9U
FLUORANTHENE	50(G)	µg/L	0.98U
FLUORENE	50(G)	µg/L	0.98U
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.98U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	4.9R
HEXACHLOROETHANE	5(S)	µg/L	4.9U
HEXACHLOROPROPENE	NC	µg/L	4.9U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.98U
ISODRIN	NC	µg/L	4.9U
ISOPHORONE	50(G)	µg/L	4.9U
ISOSAFROLE	NC	µg/L	4.9U
KEPONE	NC	µg/L	20U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	4.9U
METHAPYRILENE	NC	µg/L	4.9U
METHYL METHANESULFONATE	NC	µg/L	4.9U
NAPHTHALENE	10(G)	µg/L	0.98U
NC	NC	µg/L	7.5UJ
NITROBENZENE	0.4(S)	µg/L	9.8U
N-NITROSODIETHYLAMINE	NC	µg/L	4.9U
N-NITROSODIMETHYLAMINE	NC	µg/L	4.9U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	4.9U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.98U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	4.9U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	4.9U
N-NITROSOPIPERIDINE	NC	µg/L	4.9U
N-NITROSOPYRROLIDINE	NC	µg/L	4.9U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	4.9U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	4.9U
O-TOLUIDINE	NC	µg/L	4.9U
PENTACHLOROBENZENE	NC	µg/L	4.9U
PENTACHLORONITROBENZENE	NC	µg/L	4.9U
PENTACHLOROPHENOL	1(S)	µg/L	4.9U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 51
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3104-01 / SB915-MH-17 / 12/11/2012 / Regular sample
PHENACETIN	NC	µg/L	4.9U
PHENANTHRENE	50(G)	µg/L	0.98U
PHENOL	1(S)	µg/L	[120]
P-PHENYLENEDIAMINE	NC	µg/L	98U
PRONAMIDE	NC	µg/L	4.9U
PYRENE	50(G)	µg/L	0.98U
SAFROLE	NC	µg/L	4.9U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 52
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3104-01 / SB915-MH-17 / 12/11/2012 / Regular sample
4,4'-DDD	0.3(S)	µg/L	0.0012U
4,4'-DDE	0.2(S)	µg/L	0.0012U
4,4'-DDT	0.2(S)	µg/L	0.0012U
ALDRIN	NC	µg/L	0.0012U
ALPHA-BHC	0.01(S)	µg/L	0.0012U
BETA-BHC	0.04(S)	µg/L	0.0012U
CONSTITUENTS OF CHLORDANE (ALPHA, BETA, AND GAMMA)	NC	µg/L	0.012U
DELTA-BHC	0.04(S)	µg/L	0.0012U
DIELDRIN	0.004(S)	µg/L	0.0012U
ENDOSULFAN I	NC	µg/L	0.0012U
ENDOSULFAN II	NC	µg/L	0.0012U
ENDOSULFAN SULFATE	NC	µg/L	0.0012U
ENDRIN	NC	µg/L	0.0012U
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012U
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012U
HEPTACHLOR	0.04(S)	µg/L	0.0012U
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012U
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012U
METHOXYCHLOR	35(S)	µg/L	0.0024U
TOXAPHENE	0.09(S)	µg/L	0.095U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 53
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample
DISULFOTON	NC	µg/L	0.96U
ETHYL PARATHION	NC	µg/L	0.96U
FAMPHUR	NC	µg/L	0.96U
Methyl parathion	NC	µg/L	0.96U
PHORATE	NC	µg/L	0.96U
THIOAZIN	NC	µg/L	0.96U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 54
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8151 Herbicide Data

		Field Sample ID	SB915-3104-01
		Location	SB915-MH-17
	NYS	Sample Date	12/11/2012
	Class GA	Sample Purpose	Regular sample
Parameter Name	Criteria	Units	
2,4,5-T	NC	µg/L	0.96U
2,4,5-TP (SILVEX)	NC	µg/L	0.96U
2,4-D	NC	µg/L	3.8U
DINOSEB	NC	µg/L	0.87U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 55
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample
TOTAL PCBs	90(S)	ng/L	2.35588
109-PeCB	NC	ng/L	0.025C86J
10-DiCB	NC	ng/L	0.0023QBJ
112-PeCB	NC	ng/L	0.038U
142-HxCB	NC	ng/L	0.038U
143-HxCB	NC	ng/L	0.0021QC134J
160-HxCB	NC	ng/L	0.057BC129
161-HxCB	NC	ng/L	0.038U
162-HxCB	NC	ng/L	0.038U
164-HxCB	NC	ng/L	0.0046QJ
165-HxCB	NC	ng/L	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.0031J
203-OcCB	NC	ng/L	0.011J
21-TrCB C33	NC	ng/L	0.0074BCJ
59-TeCB C62/75	NC	ng/L	0.0026CJ
64-TeCB	NC	ng/L	0.0088BJ
72-TeCB	NC	ng/L	0.038U
98-PeCB C102	NC	ng/L	0.038U
PCB 101	NC	ng/L	0.029C90J
PCB 102 (BZ)	NC	ng/L	0.038U
PCB 115 (BZ)	NC	ng/L	0.044BC110
PCB 116 (BZ)	NC	ng/L	0.0050QC85J
PCB 117 (BZ)	NC	ng/L	0.0050QC85J
PCB 118	NC	ng/L	0.025BJ
PCB 125 (BZ)	NC	ng/L	0.025C86J
PCB 13 (BZ)	NC	ng/L	0.0048QBC12J
PCB 138	NC	ng/L	0.057BC129
PCB 153	NC	ng/L	0.048BC
PCB 163 (BZ)	NC	ng/L	0.057BC129
PCB 209	NC	ng/L	0.0032J
PCB 28	NC	ng/L	0.013BC20J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 55
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample
PCB 30	NC	ng/L	0.013BC18J
PCB 52	NC	ng/L	0.021BJ
PCB 75 (BZ)	NC	ng/L	0.0026C59J
PCB 91 (BZ)	NC	ng/L	0.0044QC88J
PCB-1	NC	ng/L	0.0028QBJ
PCB-100	NC	ng/L	0.038U
PCB-103	NC	ng/L	0.038U
PCB-104	NC	ng/L	0.038U
PCB-105	NC	ng/L	0.011QBJ
PCB-106/118	NC	ng/L	0.038U
PCB-107/109	NC	ng/L	0.0018QJ
PCB-108/112	NC	ng/L	0.0017CJ
PCB-11	NC	ng/L	0.016QBJ
PCB-110	NC	ng/L	0.044BC
PCB-111/115	NC	ng/L	0.038U
PCB-113	NC	ng/L	0.029C90J
PCB-114	NC	ng/L	0.038U
PCB-119	NC	ng/L	0.025C86J
PCB-12/13	NC	ng/L	0.0048QBCJ
PCB-120	NC	ng/L	0.038U
PCB-121	NC	ng/L	0.038U
PCB-122	NC	ng/L	0.0017QJ
PCB-123	NC	ng/L	0.038U
PCB-124	NC	ng/L	0.0017C108J
PCB-126	NC	ng/L	0.038U
PCB-127	NC	ng/L	0.038U
PCB-128/162	NC	ng/L	0.0073QCJ
PCB-129	NC	ng/L	0.057BC
PCB-130	NC	ng/L	0.0024QJ
PCB-131	NC	ng/L	0.038U
PCB-132/161	NC	ng/L	0.018J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 55
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample
PCB-133/142	NC	ng/L	0.038U
PCB-134/143	NC	ng/L	0.0021QCJ
PCB-135	NC	ng/L	0.02CJ
PCB-136	NC	ng/L	0.0068J
PCB-137	NC	ng/L	0.0026J
PCB-139/149	NC	ng/L	0.038U
PCB-14	NC	ng/L	0.00076QJ
PCB-140	NC	ng/L	0.038U
PCB-141	NC	ng/L	0.011J
PCB-144	NC	ng/L	0.002J
PCB-145	NC	ng/L	0.038U
PCB-146/165	NC	ng/L	0.0087J
PCB-147	NC	ng/L	0.047C
PCB-148	NC	ng/L	0.038U
PCB-149	NC	ng/L	0.047C147
PCB-15	NC	ng/L	0.008QBJ
PCB-150	NC	ng/L	0.038U
PCB-151	NC	ng/L	0.020C135J
PCB-152	NC	ng/L	0.038U
PCB-153	NC	ng/L	0.013C83J
PCB-154	NC	ng/L	0.038U
PCB-155	NC	ng/L	0.038U
PCB-156	NC	ng/L	0.006CJ
PCB-157	NC	ng/L	0.0060C156J
PCB-158/160	NC	ng/L	0.0053J
PCB-159	NC	ng/L	0.038U
PCB-16/32	NC	ng/L	0.005QJ
PCB-166	NC	ng/L	0.0073QC128J
PCB-167	NC	ng/L	0.0023J
PCB-168	NC	ng/L	0.048BC153
PCB-169	NC	ng/L	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 55
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample
PCB-17	NC	ng/L	0.0056QJ
PCB-170	NC	ng/L	0.016J
PCB-171	NC	ng/L	0.0056CJ
PCB-172	NC	ng/L	0.003QJ
PCB-173	NC	ng/L	0.0056C171J
PCB-174	NC	ng/L	0.019J
PCB-175	NC	ng/L	0.038U
PCB-176	NC	ng/L	0.0024J
PCB-177	NC	ng/L	0.01J
PCB-178	NC	ng/L	0.0028QJ
PCB-179	NC	ng/L	0.008J
PCB-18	NC	ng/L	0.013BCJ
PCB-180	NC	ng/L	0.042C
PCB-181	NC	ng/L	0.038U
PCB-182/187	NC	ng/L	0.038U
PCB-183	NC	ng/L	0.022J
PCB-184	NC	ng/L	0.038U
PCB-185	NC	ng/L	0.010QC183J
PCB-186	NC	ng/L	0.038U
PCB-188	NC	ng/L	0.038U
PCB-189	NC	ng/L	0.038U
PCB-19	NC	ng/L	0.0047J
PCB-190	NC	ng/L	0.0031QJ
PCB-191	NC	ng/L	0.038U
PCB-192	NC	ng/L	0.038U
PCB-193	NC	ng/L	0.042C180
PCB-194	NC	ng/L	0.011J
PCB-195	NC	ng/L	0.0027QJ
PCB-196/203	NC	ng/L	0.0056J
PCB-197	NC	ng/L	0.038U
PCB-198	NC	ng/L	0.0086QSCJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 55
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample
PCB-199	NC	ng/L	0.0086QSC198J
PCB-2	NC	ng/L	0.038U
PCB-20/21/33	NC	ng/L	0.013BCJ
PCB-200	NC	ng/L	0.0015QJ
PCB-201	NC	ng/L	0.0019J
PCB-202	NC	ng/L	0.0035J
PCB-204	NC	ng/L	0.038U
PCB-205	NC	ng/L	0.00074QJ
PCB-206	NC	ng/L	0.0096QJ
PCB-207	NC	ng/L	0.0016J
PCB-208	NC	ng/L	0.0027QJ
PCB-22	NC	ng/L	0.0045J
PCB-23	NC	ng/L	0.038U
PCB-24/27	NC	ng/L	0.038U
PCB-25	NC	ng/L	0.0011QJ
PCB-26	NC	ng/L	0.0019CJ
PCB-27	NC	ng/L	0.038U
PCB-29	NC	ng/L	0.0019C26J
PCB-3	NC	ng/L	0.038U
PCB-31	NC	ng/L	0.0094BJ
PCB-32	NC	ng/L	0.0052J
PCB-33	NC	ng/L	0.0074BC21J
PCB-34	NC	ng/L	0.038U
PCB-35	NC	ng/L	0.038U
PCB-36	NC	ng/L	0.038U
PCB-37	NC	ng/L	0.0043J
PCB-38	NC	ng/L	0.038U
PCB-39	NC	ng/L	0.038U
PCB-4/10	NC	ng/L	0.01BJ
PCB-40	NC	ng/L	0.0083CJ
PCB-41/64/71/72	NC	ng/L	0.0083C40J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 55
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample
PCB-42/59	NC	ng/L	0.0031QJ
PCB-43/49	NC	ng/L	0.0011QCJ
PCB-44	NC	ng/L	0.19BC
PCB-45	NC	ng/L	0.061BC
PCB-46	NC	ng/L	0.0017QJ
PCB-47	NC	ng/L	0.19BC44
PCB-48/75	NC	ng/L	0.0018QJ
PCB-49	NC	ng/L	0.0099CJ
PCB-5	NC	ng/L	0.0017QBJ
PCB-50	NC	ng/L	0.0056CJ
PCB-51	NC	ng/L	0.061BC45
PCB-53	NC	ng/L	0.0056C50J
PCB-54	NC	ng/L	0.038U
PCB-55	NC	ng/L	0.038U
PCB-56/60	NC	ng/L	0.005J
PCB-57	NC	ng/L	0.038U
PCB-58	NC	ng/L	0.0017QJ
PCB-6	NC	ng/L	0.0038QBJ
PCB-61/70	NC	ng/L	0.016QBCJ
PCB-62	NC	ng/L	0.0026C59J
PCB-63	NC	ng/L	0.038U
PCB-65	NC	ng/L	0.19BC44
PCB-66	NC	ng/L	0.012J
PCB-67	NC	ng/L	0.038U
PCB-68	NC	ng/L	0.023J
PCB-69	NC	ng/L	0.0099C49J
PCB-7/9	NC	ng/L	0.0023QJ
PCB-70	NC	ng/L	0.016QBC61J
PCB-71	NC	ng/L	0.0083C40J
PCB-73	NC	ng/L	0.0011QC43J
PCB-74	NC	ng/L	0.016QBC61J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 55
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample
PCB-76/66	NC	ng/L	0.016QBC61J
PCB-77	NC	ng/L	0.003QBJ
PCB-78	NC	ng/L	0.038U
PCB-79	NC	ng/L	0.038U
PCB-8	NC	ng/L	0.011BJ
PCB-80	NC	ng/L	0.038U
PCB-81	NC	ng/L	0.038U
PCB-82	NC	ng/L	0.0039QJ
PCB-83	NC	ng/L	0.013CJ
PCB-84/92	NC	ng/L	0.011J
PCB-85/116	NC	ng/L	0.005QCJ
PCB-86	NC	ng/L	0.025CJ
PCB-87	NC	ng/L	0.025C86J
PCB-88/91	NC	ng/L	0.0044QCJ
PCB-89	NC	ng/L	0.038U
PCB-9	NC	ng/L	0.0022QBJ
PCB-90/101	NC	ng/L	0.029CJ
PCB-92	NC	ng/L	0.0059J
PCB-93	NC	ng/L	0.038U
PCB-94	NC	ng/L	0.038U
PCB-95/98/102	NC	ng/L	0.031QJ
PCB-96	NC	ng/L	0.038U
PCB-97	NC	ng/L	0.025C86J
Total Di-CB	NC	ng/L	0.064EMPC,U
Total Hepta-CB	NC	ng/L	0.15EMPC
Total Hexa-CB	NC	ng/L	0.25EMPC
Total Mono-CB	NC	ng/L	0.0028EMPC,U
Total Nona-CB	NC	ng/L	0.014EMPC,J
Total Octa-CB	NC	ng/L	0.047EMPC,J
Total Penta-CB	NC	ng/L	0.21EMPC
Total Tetra-CB	NC	ng/L	0.38EMPC

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 55
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method1668 PCB Congener and Homolog Data

		Field Sample ID	SB915-3104-01
		Location	SB915-MH-17
	NYS	Sample Date	12/11/2012
	Class GA	Sample Purpose	Regular sample
Parameter Name	Criteria	Units	
Total Tri-CB	NC	ng/L	0.075EMPC,J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 56
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3102-01 SB915-MH-01 12/11/2012 Regular sample	SB915-3102-02 SB915-MH-02 12/11/2012 Regular sample	SB915-3102-03 SB915-MH-03 12/11/2012 Regular sample	SB915-3102-04 SB915-MH-04 12/11/2012 Regular sample	SB915-3102-06 SB915-MH-05 12/11/2012 Regular sample	SB915-3102-07 SB915-MH-06 12/11/2012 Regular sample	SB915-3103-04 SB915-MH-07 12/11/2012 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	170	170	850	1200	1300	1800	1100
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	1U	1U	1U	1U	1U	1U	[1.9]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	50U	50U	50U	50U	50U	50U	50U
MANGANESE	0.3(S)	mg/L	0.15U	0.15U	0.15U	0.15U	0.15	0.15U	0.15U
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	50U	50U	50U	50U	50U	50U	50U
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[130]	[130]	[740]	[1000]	[1100]	[970]	[970]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA	NA

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 56
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3102-08 SB915-MH-08 12/11/2012 Regular sample	SB915-3102-09 SB915-MH-09 12/11/2012 Regular sample	SB915-3102-10 SB915-MH-10 12/11/2012 Regular sample	SB915-3102-11 SB915-MH-11 12/11/2012 Regular sample	SB915-3102-12 SB915-MH-12 12/11/2012 Regular sample	SB915-3103-05 SB915-MH-13 12/11/2012 Regular sample	SB915-3105-01 SB915-MH-14 12/12/2012 Regular sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	1000	1400	2300	4600	3500	3300	3900
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	1U	[1.9]	1U	1U	1U	1U	1U
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	50U	50U	50U	50U	50U	50U	50U
MANGANESE	0.3(S)	mg/L	0.15U	[0.56]	0.15U	0.15U	0.15	0.15	[0.43]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	50U	50U	50U	85	95	96	140
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[890]	[950]	[1600]	[3000]	[2300]	[2200]	[2700]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA	NA

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 56
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3105-02 SB915-MH-15 12/12/2012 Regular sample	SB915-3105-03 SB915-MH-16 12/12/2012 Regular sample	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample	SB915-3103-03 SB915-MH-18 12/11/2012 Regular sample	SB915-3105-04 SB915-PCP-01 12/12/2012 Regular sample
ALUMINUM	NC	mg/L	NA	NA	2U	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	0.1U	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	0.1U	NA	NA
BARIUM	1(S)	mg/L	NA	NA	2U	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	0.04U	NA	NA
BORON	1(S)	mg/L	NA	NA	2U	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	2700	220	320	300	1400
CHROMIUM	0.05(S)	mg/L	NA	NA	0.05U	NA	NA
COBALT	NC	mg/L	NA	NA	0.5U	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	0.25U	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	0.01U	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	0.001R	NA	NA
IRON	0.3(S)	mg/L	[1.6]	[4.7]	[7.1]	1U	[1.8]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	50U	50U	50U	50U	50U
MANGANESE	0.3(S)	mg/L	[0.37]	0.29	0.15U	0.15U	[1.1]
MERCURY	0.0007(S)	mg/L	NA	NA	0.00017	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	0.4U	NA	NA
POTASSIUM	NC	mg/L	110	50U	50U	50U	56
SELENIUM	0.01(S)	mg/L	NA	NA	0.05U	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	0.05U	NA	NA
SODIUM	20(S)	mg/L	[1900]	[88]	[190]	[210]	[750]
THALLIUM	0.0005(G)	mg/L	NA	NA	0.1U	NA	NA
TIN	NC	mg/L	NA	NA	1U	NA	NA
VANADIUM	NC	mg/L	NA	NA	0.5U	NA	NA
ZINC	2(G)	mg/L	NA	NA	0.2U	NA	NA

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 57
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8290 Dioxins/Furans Data

		Field Sample ID	SB915-3104-01
		Location	SB915-MH-17
	NYS	Sample Date	12/11/2012
	Class GA	Sample Purpose	Regular sample
Parameter Name	Criteria	Units	
1,2,3,4,6,7,8-HPCDD	NC	ng/L	0.0042EMPC,J
1,2,3,4,6,7,8-HPCDF	NC	ng/L	0.003EMPC,J
1,2,3,4,7,8,9-HPCDF	NC	ng/L	0.00085EMPC,J
1,2,3,4,7,8-HXCDD	NC	ng/L	0.095U
1,2,3,4,7,8-HXCDF	NC	ng/L	0.00038EMPC,J
1,2,3,6,7,8-HXCDD	NC	ng/L	0.095U
1,2,3,6,7,8-HXCDF	NC	ng/L	0.00087EMPC,J
1,2,3,7,8,9-HXCDD	NC	ng/L	0.0011EMPC,J
1,2,3,7,8,9-HXCDF	NC	ng/L	0.00055EMPC,J
1,2,3,7,8-PECDD	NC	ng/L	0.095U
1,2,3,7,8-PECDF	NC	ng/L	0.095U
2,3,4,6,7,8-HXCDF	NC	ng/L	0.0008EMPC,J
2,3,4,7,8-PECDF	NC	ng/L	0.095U
2,3,7,8-TCDD	NC	ng/L	0.019U
2,3,7,8-TCDF	NC	ng/L	0.00021J
OCDD	NC	ng/L	0.04EMPC,J
OCDF	NC	ng/L	0.0083EMPC,J
TOTAL HPCDD	NC	ng/L	0.0082QJB
TOTAL HPCDF	NC	ng/L	0.0067JBQ
TOTAL HXCDD	NC	ng/L	0.0011QBJ
TOTAL HXCDF	NC	ng/L	0.0047QJB
TOTAL PECDD	NC	ng/L	0.00075BJ
TOTAL PECDF	NC	ng/L	0.00083QJ
TOTAL TCDD	NC	ng/L	0.00071QJ
Total TCDF	NC	ng/L	0.0037QJB

NOTES:

J = Estimated result as value is below the Minimum Level; U = Analyte not detected; B = Analyte detected in the method blank; Q = Estimate maximum possible concentration.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 58
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-3102-01 SB915-MH-01 12/11/2012 Regular sample	SB915-3102-02 SB915-MH-02 12/11/2012 Regular sample	SB915-3102-03 SB915-MH-03 12/11/2012 Regular sample	SB915-3102-04 SB915-MH-04 12/11/2012 Regular sample	SB915-3102-06 SB915-MH-05 12/11/2012 Regular sample	SB915-3102-07 SB915-MH-06 12/11/2012 Regular sample	SB915-3103-04 SB915-MH-07 12/11/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		190	190	160	120	130	5.0U	74
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	5.0U	5.0U	99	5.0U
ALKALINITY, TOTAL	NC	mg/L		190	190	160	120	130	320	74
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		3.3	3.3	3.8	3.9	3.9	150	24U
BROMIDE	2(G)	mg/L		0.50U	0.50U	2.5U	[2.5]	2.5U	5.0U	2.5U
CHEMICAL OXYGEN DEMAND	NC	mg/L		13J	18J	980J	260J	99J	280J	360J
CHLORIDE	250(S)	mg/L		[320]	[360]	[4200]	[6000]	[3100]	[3700]	[3300]
HARDNESS (AS CACO3)	NC	mg/L		480	510	1900	2600	2700	4100	2900
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		0.51	0.49	1.2	1.6	1.6	[10]	[2.7]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		5.0U	5.0U	5.0U	5.0U	5.0U	30	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L		0.43	0.44	1.0U	1.0U	1.0U	2.0U	1.0UJ
NITROGEN, NITRITE	1(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L		34	34	110	100	51	52	53
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		800	790	3800	4800	5100	6300	5500
TOTAL ORGANIC CARBON	NC	mg/L		3.8	3.9	3.4	3.2	3.2	56	9.3J
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.018]	[0.021]	[0.018]	[0.015]	[0.017]	[0.064]	[0.026]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 58
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-3102-08 SB915-MH-08 12/11/2012 Regular sample	SB915-3102-09 SB915-MH-09 12/11/2012 Regular sample	SB915-3102-10 SB915-MH-10 12/11/2012 Regular sample	SB915-3102-11 SB915-MH-11 12/11/2012 Regular sample	SB915-3102-12 SB915-MH-12 12/11/2012 Regular sample	SB915-3103-05 SB915-MH-13 12/11/2012 Regular sample	SB915-3105-01 SB915-MH-14 12/12/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		98	72	8.6	5.0U	5.0U	6.8	67
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	26	59	32	21	5.0U
ALKALINITY, TOTAL	NC	mg/L		98	72	34	130	36	28	67
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		19	18	17	16	7.3	7.9	8.4
BROMIDE	2(G)	mg/L		2.5U	2.5U	5.0U	13U	13U	13U	13U
CHEMICAL OXYGEN DEMAND	NC	mg/L		150J	160J	480J	250J	150J	510J	700
CHLORIDE	250(S)	mg/L		[2400]	[2300]	[6200]	[10000]	[9300]	[8800]	[6800]
HARDNESS (AS CACO3)	NC	mg/L		2500	3300	5500	10000	8200	8300	9000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[2.6]	[2.6]	[3.4]	[4.2]	[2.5]	[2.3]	[3.0J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		5.6	5.0U	5.6	5.0U	5	5.0U	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L		1.0U	1.0U	2.0U	5.0U	5.0U	5.0UJ	5.0U
NITROGEN, NITRITE	1(S)	mg/L		NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L		45	38	42	54	72	77	81
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		4600	4700	8900	17000	13000	12000	12000
TOTAL ORGANIC CARBON	NC	mg/L		8.8	9.3	6.6	4.7	2.9J	3.2J	2.7
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.018]	[0.017]	[0.030]	[0.046]	[0.024]	[0.022]	[0.022]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 58
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Units	Field Sample ID Location Sample Date Sample Purpose	SB915-3105-02 SB915-MH-15 12/12/2012 Regular sample	SB915-3105-03 SB915-MH-16 12/12/2012 Regular sample	SB915-3104-01 SB915-MH-17 12/11/2012 Regular sample	SB915-3103-03 SB915-MH-18 12/11/2012 Regular sample	SB915-3105-04 SB915-PCP-01 12/12/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L		120	330	270	290	58
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L		5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L		120	330	270	290	58
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L		5.4	4.3	14	15	3.2
BROMIDE	2(G)	mg/L		5.0U	0.50U	0.50U	0.50U	2.5U
CHEMICAL OXYGEN DEMAND	NC	mg/L		500	61	40J	33J	200
CHLORIDE	250(S)	mg/L		[5300]	[310]	[500]	[570]	[3100]
HARDNESS (AS CACO3)	NC	mg/L		8200	750	760	800	3500
NITROGEN, AMMONIA (AS N)	2(S)	mg/L		[3.9J]	[2.6J]	[4.7]	[5.3]	0.80J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L		5.0U	5.0U	5.6	8.4	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L		2.0U	1.1	1.0J	0.63J	1.0U
NITROGEN, NITRITE	1(S)	mg/L		NA	NA	0.050UJ	NA	NA
SULFATE	250(S)	mg/L		110	140	95	98	66
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L		7600	970	1200	1300	5200
TOTAL ORGANIC CARBON	NC	mg/L		2.9	4.6	9.1J	9.8	4.4
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L		[0.016]	[0.039]	[0.27]	[0.38]	0.010U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 59
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Subsurface Leachate
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-3104-01
		Location	SB915-MH-17
		Sample Date	12/11/2012
		Sample Purpose	Regular sample
Parameter Name	TEF	Units	
1,2,3,4,6,7,8-HPCDD	0.01	ng/L	0.000042
1,2,3,4,6,7,8-HPCDF	0.01	ng/L	0.00003
1,2,3,4,7,8,9-HPCDF	0.01	ng/L	0.0000085
1,2,3,4,7,8-HXCDD	0.1	ng/L	---
1,2,3,4,7,8-HXCDF	0.1	ng/L	0.000038
1,2,3,6,7,8-HXCDD	0.1	ng/L	---
1,2,3,6,7,8-HXCDF	0.1	ng/L	0.000087
1,2,3,7,8,9-HXCDD	0.1	ng/L	0.00011
1,2,3,7,8,9-HXCDF	0.1	ng/L	0.000055
1,2,3,7,8-PECDD	1	ng/L	---
1,2,3,7,8-PECDF	0.03	ng/L	---
2,3,4,6,7,8-HXCDF	0.1	ng/L	0.00008
2,3,4,7,8-PECDF	0.3	ng/L	---
2,3,7,8-TCDD	1	ng/L	---
2,3,7,8-TCDF	0.1	ng/L	0.000021
OCDD	0.0003	ng/L	0.000012
OCDF	0.0003	ng/L	0.00000249
Total TEQ		ng/L	0.00048599

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 60
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3114-01 / SB915-PCP-02 / 02/27/2013 / Regular Sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U
1,1,1-TRICHLOROETHANE	5(S)	µg/L	1.0U
1,1,2,2-TETRACHLOROETHANE	5(S)	µg/L	1.0U
1,1,2-TRICHLOROETHANE	1(S)	µg/L	1.0U
1,1-DICHLOROETHANE	5(S)	µg/L	1.0U
1,1-DICHLOROETHENE	5(S)	µg/L	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U
1,2,3-TRICHLOROPROPANE	0.04(S)	µg/L	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	0.04(S)	µg/L	1.0U
1,2-DIBROMOETHANE	5(S)	µg/L	1.0U
1,2-DICHLOROBENZENE	3(S)	µg/L	1.0U
1,2-DICHLOROETHANE	0.6(S)	µg/L	1.0U
1,2-DICHLOROPROPANE	1(S)	µg/L	1.0U
1,3-DICHLOROBENZENE	3(S)	µg/L	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U
1,4-DICHLOROBENZENE	3(S)	µg/L	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0U
2-BUTANONE	50(G)	µg/L	9.4
2-HEXANONE	50(G)	µg/L	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U
ACETONE	50(G)	µg/L	[70]
ACETONITRILE	NC	µg/L	20U
ACROLEIN	NC	µg/L	20UJ
ACRYLONITRILE	NC	µg/L	20UJ
ALLYL CHLORIDE	NC	µg/L	1.0U
BENZENE	1(S)	µg/L	[4.8]
BROMOCHLOROMETHANE	NC	µg/L	1.0U
BROMODICHLOROMETHANE	50(G)	µg/L	1.0U
BROMOFORM	50(G)	µg/L	1.0U
BROMOMETHANE	5(S)	µg/L	1.0U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 60
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
CARBON DISULFIDE	60(G)	µg/L	1.0U
CARBON TETRACHLORIDE	5(S)	µg/L	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U
CHLOROETHANE	5(S)	µg/L	1.0U
CHLOROFORM	7(S)	µg/L	1.0U
CHLOROMETHANE	5(S)	µg/L	1.0U
CHLOROPRENE	NC	µg/L	1.0U
CIS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U
CIS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U
Dibromochloromethane	50(G)	µg/L	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U
DICHLORODIFLUOROMETHANE	5(S)	µg/L	1.0U
ETHYL CYANIDE	NC	µg/L	2.0U
ETHYL METHACRYLATE	NC	µg/L	1.0U
ETHYLBENZENE	5(S)	µg/L	1.0U
IODOMETHANE	NC	µg/L	1.0U
ISOBUTANOL	NC	µg/L	40R
METHYL METHACRYLATE	NC	µg/L	1.0U
METHYLENE CHLORIDE	5(S)	µg/L	1.0U
STYRENE	5(S)	µg/L	1.0U
TETRACHLOROETHENE	5(S)	µg/L	1.0U
TOLUENE	5(S)	µg/L	1.0U
TRANS-1,2-DICHLOROETHENE	5(G)	µg/L	1.0U
TRANS-1,3-DICHLOROPROPENE	0.4(S)	µg/L	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U
TRICHLOROETHENE	5(S)	µg/L	1.0U
TRICHLOROFLUOROMETHANE	5(S)	µg/L	1.0U
VINYL ACETATE	NC	µg/L	1.0U
VINYL CHLORIDE	2(S)	µg/L	1.0U
XYLENES, TOTAL	5(S)	µg/L	3.0U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 61
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3114-01 / SB915-PCP-02 / 02/27/2013 / Regular Sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.8UJ
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.96U
1,3,5-TRINITROBENZENE	NC	µg/L	0.96U
1,3-DINITROBENZENE	NC	µg/L	0.96U
1,4-NAPHTHOQUINONE	NC	µg/L	0.96U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.96U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.96U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.96U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U
2,4-DIMETHYLPHENOL	50(G)	µg/L	0.96U
2,4-DINITROPHENOL	10(G)	µg/L	4.8U
2,4-DINITROTOLUENE	5(S)	µg/L	0.96U
2,6-DICHLOROPHENOL	NC	µg/L	0.96U
2,6-DINITROTOLUENE	5(S)	µg/L	0.96U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.96U
2-CHLORONAPHTHALENE	10(G)	µg/L	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.96U
2-METHYLNAPHTHALENE	NC	µg/L	0.19U
2-METHYLPHENOL	1(S)	µg/L	[11]
2-NAPHTHYLAMINE	NC	µg/L	0.96UJ
2-NITROANILINE	5(S)	µg/L	4.8U
2-NITROPHENOL	1(S)	µg/L	0.96U
3&4-METHYLPHENOL	NC	µg/L	100
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.96U
3-METHYLCHOLANTHRENE	NC	µg/L	0.96U
3-NITROANILINE	5(S)	µg/L	4.8U
4,6-DINITRO-2-METHYLPHENOL	1(S)	µg/L	4.8U
4-AMINOBIPHENYL	NC	µg/L	0.96U
4-BROMOPHENYL PHENYL ETHER	5(S)	µg/L	0.96U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 61
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
4-CHLORO-3-METHYLPHENOL	1(S)	µg/L	0.96U
4-CHLOROANILINE	5(S)	µg/L	0.96U
4-CHLOROPHENYL PHENYL ETHER	5(S)	µg/L	0.96U
4-NITROANILINE	5(S)	µg/L	4.8U
4-NITROPHENOL	1(S)	µg/L	4.8U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.96U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.96U
ACENAPHTHENE	20(G)	µg/L	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U
ACETOPHENONE	NC	µg/L	0.96U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.96U
ANTHRACENE	50(G)	µg/L	0.19U
BENZO(A)ANTHRACENE	0.002(G)	µg/L	0.19U
BENZO(A)PYRENE	NC	µg/L	0.19U
BENZO(B)FLUORANTHENE	0.002(G)	µg/L	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U
BENZO(K)FLUORANTHENE	0.002(G)	µg/L	0.19U
BENZYL ALCOHOL	NC	µg/L	0.96U
BIS(2-CHLOROETHOXY)METHANE	5(S)	µg/L	0.96U
BIS(2-CHLOROETHYL)ETHER	1(S)	µg/L	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	5(S)	µg/L	1.9U
BUTYLBENZYL PHTHALATE	50(G)	µg/L	0.96U
CHLOROBENZILATE	NC	µg/L	0.96U
CHRYSENE	0.002(G)	µg/L	0.19U
DIALLATE	NC	µg/L	0.96U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U
DIBENZOFURAN	NC	µg/L	0.96U
DIETHYL PHTHALATE	50(G)	µg/L	0.96UJ
DIMETHYL PHTHALATE	50(G)	µg/L	0.96U
DI-N-BUTYL PHTHALATE	50(S)	µg/L	0.96U
DI-N-OCTYL PHTHALATE	50(G)	µg/L	0.96U
FLUORANTHENE	50(G)	µg/L	0.19U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 61
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
FLUORENE	50(G)	µg/L	0.19UJ
HEXACHLOROBUTADIENE	0.5(S)	µg/L	0.19U
HEXACHLOROCYCLOPENTADIENE	5(S)	µg/L	0.96R
HEXACHLOROETHANE	5(S)	µg/L	0.96U
HEXACHLOROPROPENE	NC	µg/L	0.96U
INDENO(1,2,3-CD)PYRENE	0.002(G)	µg/L	0.19U
ISODRIN	NC	µg/L	0.96UJ
ISOPHORONE	50(G)	µg/L	0.96U
ISOSAFROLE	NC	µg/L	0.96U
KEPONE	NC	µg/L	3.8U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.96U
METHAPYRILENE	NC	µg/L	0.96U
METHYL METHANESULFONATE	NC	µg/L	0.96UJ
NAPHTHALENE	10(G)	µg/L	0.21
NITROBENZENE	0.4(S)	µg/L	1.9U
N-NITROSODIETHYLAMINE	NC	µg/L	0.96U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.96U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.96U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U
N-NITROSODIPHENYLAMINE	50(G)	µg/L	0.96U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.96U
N-NITROSOPIPERIDINE	NC	µg/L	0.96U
N-NITROSOPYRROLIDINE	NC	µg/L	0.96U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.96U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.96U
O-TOLUIDINE	NC	µg/L	0.96U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.96U
PENTACHLOROBENZENE	NC	µg/L	0.96UJ
PENTACHLORONITROBENZENE	NC	µg/L	0.96U
PENTACHLOROPHENOL	1(S)	µg/L	0.96U
PHENACETIN	NC	µg/L	0.96U
PHENANTHRENE	50(G)	µg/L	0.19U

NOTES:

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NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 61
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8270 Semivolatile Organic Compound Data

		Field Sample ID	SB915-3114-01
		Location	SB915-PCP-02
	NYS	Sample Date	02/27/2013
	Class GA	Sample Purpose	Regular Sample
Parameter Name	Criteria	Units	
PHENOL	1(S)	µg/L	[43]
PRONAMIDE	NC	µg/L	0.96U
PYRENE	50(G)	µg/L	0.19U
SAFROLE	NC	µg/L	0.96UJ

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 62
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8081 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
4,4'-DDD	0.3(S)	µg/L	0.0012U
4,4'-DDE	0.2(S)	µg/L	0.0012U
4,4'-DDT	0.2(S)	µg/L	0.0012U
ALDRIN	NC	µg/L	0.0012U
ALPHA-BHC	0.01(S)	µg/L	0.0012U
BETA-BHC	0.04(S)	µg/L	0.0012U
CONSTITUENTS OF CHLORDANE (ALPHA, BETA, AND GAMMA)	NC	µg/L	0.012U
DELTA-BHC	0.04(S)	µg/L	0.0012U
DIELDRIN	0.004(S)	µg/L	0.0012U
ENDOSULFAN I	NC	µg/L	0.0012U
ENDOSULFAN II	NC	µg/L	0.0012U
ENDOSULFAN SULFATE	NC	µg/L	0.0012U
ENDRIN	NC	µg/L	0.0012U
ENDRIN ALDEHYDE	0.5(S)	µg/L	0.0012U
GAMMA-BHC (LINDANE)	NC	µg/L	0.0012U
HEPTACHLOR	0.04(S)	µg/L	0.0012U
HEPTACHLOR EPOXIDE	0.03(S)	µg/L	0.0012U
HEXACHLOROBENZENE	0.04(S)	µg/L	0.0012U
METHOXYCHLOR	35(S)	µg/L	0.0024U
TOXAPHENE	0.09(S)	µg/L	0.095U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 63
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8141 Pesticide Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
DISULFOTON	NC	µg/L	0.95U
ETHYL PARATHION	NC	µg/L	0.95U
FAMPHUR	NC	µg/L	0.95U
Methyl parathion	NC	µg/L	0.95U
PHORATE	NC	µg/L	0.95U
THIOAZIN	NC	µg/L	0.95U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 64
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8151 Herbicide Data

		Field Sample ID	SB915-3114-01
		Location	SB915-PCP-02
	NYS	Sample Date	02/27/2013
	Class GA	Sample Purpose	Regular Sample
Parameter Name	Criteria	Units	
2,4,5-T	NC	µg/L	0.96U
2,4,5-TP (SILVEX)	NC	µg/L	0.96U
2,4-D	NC	µg/L	3.8U
DINOSEB	NC	µg/L	0.87U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 65
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
TOTAL PCBs	90(S)	ng/L	0.16734
109-PeCB	NC	ng/L	0.038U
10-DiCB	NC	ng/L	0.00084Q,J
112-PeCB	NC	ng/L	0.038U
142-HxCB	NC	ng/L	0.038U
143-HxCB	NC	ng/L	0.038U
160-HxCB	NC	ng/L	0.0024Q,B,C129,J
161-HxCB	NC	ng/L	0.038U
162-HxCB	NC	ng/L	0.038U
164-HxCB	NC	ng/L	0.038U
165-HxCB	NC	ng/L	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.038U
203-OcCB	NC	ng/L	0.038U
21-TrCB C33	NC	ng/L	0.0022Q,B,C,J
59-TeCB C62/75	NC	ng/L	0.038U
64-TeCB	NC	ng/L	0.0013J
72-TeCB	NC	ng/L	0.038U
98-PeCB C102	NC	ng/L	0.038U
PCB 101	NC	ng/L	0.0023Q,B,C90,J
PCB 102 (BZ)	NC	ng/L	0.038U
PCB 115 (BZ)	NC	ng/L	0.0041Q,B,C110,J
PCB 116 (BZ)	NC	ng/L	0.038U
PCB 117 (BZ)	NC	ng/L	0.038U
PCB 118	NC	ng/L	0.0018B,J
PCB 125 (BZ)	NC	ng/L	0.038U
PCB 13 (BZ)	NC	ng/L	0.057U
PCB 138	NC	ng/L	0.0024Q,B,C129,J
PCB 153	NC	ng/L	0.0018Q,B,C,J
PCB 163 (BZ)	NC	ng/L	0.0024Q,B,C129,J
PCB 209	NC	ng/L	0.038U
PCB 28	NC	ng/L	0.0039B,C20,J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 65
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
PCB 30	NC	ng/L	0.0075B,C18,J
PCB 52	NC	ng/L	0.0028B,J
PCB 75 (BZ)	NC	ng/L	0.038U
PCB 91 (BZ)	NC	ng/L	0.038U
PCB-1	NC	ng/L	0.0076J
PCB-100	NC	ng/L	0.038U
PCB-103	NC	ng/L	0.038U
PCB-104	NC	ng/L	0.038U
PCB-105	NC	ng/L	0.038U
PCB-106/118	NC	ng/L	0.038U
PCB-107/109	NC	ng/L	0.038U
PCB-108/107	NC	ng/L	0.038U
PCB-11	NC	ng/L	0.0096Q,B,J
PCB-110	NC	ng/L	0.0041Q,B,C,J
PCB-111	NC	ng/L	0.038U
PCB-113	NC	ng/L	0.0023Q,B,C90,J
PCB-114	NC	ng/L	0.038U
PCB-119	NC	ng/L	0.038U
PCB-12	NC	ng/L	0.057U
PCB-120	NC	ng/L	0.038U
PCB-121	NC	ng/L	0.038U
PCB-122	NC	ng/L	0.038U
PCB-123	NC	ng/L	0.038U
PCB-124	NC	ng/L	0.038U
PCB-126	NC	ng/L	0.038U
PCB-127	NC	ng/L	0.038U
PCB-128	NC	ng/L	0.038U
PCB-129	NC	ng/L	0.0024Q,B,C,J
PCB-130	NC	ng/L	0.038U
PCB-131	NC	ng/L	0.038U
PCB-132	NC	ng/L	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 65
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
PCB-133	NC	ng/L	0.038U
PCB-134	NC	ng/L	0.038U
PCB-135	NC	ng/L	0.038U
PCB-136	NC	ng/L	0.038U
PCB-137	NC	ng/L	0.038U
PCB-139	NC	ng/L	0.038U
PCB-14	NC	ng/L	0.038U
PCB-140	NC	ng/L	0.038U
PCB-141	NC	ng/L	0.038U
PCB-144	NC	ng/L	0.038U
PCB-145	NC	ng/L	0.038U
PCB-146	NC	ng/L	0.038U
PCB-147	NC	ng/L	0.0022B,C,J
PCB-148	NC	ng/L	0.038U
PCB-149	NC	ng/L	0.0022B,C147,J
PCB-15	NC	ng/L	0.0027Q,B,J
PCB-150	NC	ng/L	0.038U
PCB-151	NC	ng/L	0.038U
PCB-152	NC	ng/L	0.038U
PCB-153	NC	ng/L	0.038U
PCB-154	NC	ng/L	0.038U
PCB-155	NC	ng/L	0.038U
PCB-156	NC	ng/L	0.038U
PCB-157	NC	ng/L	0.038U
PCB-158	NC	ng/L	0.038U
PCB-159	NC	ng/L	0.038U
PCB-16	NC	ng/L	0.0031
PCB-166	NC	ng/L	0.038U
PCB-167	NC	ng/L	0.038U
PCB-168	NC	ng/L	0.0018Q,B,C153,J
PCB-169	NC	ng/L	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 65
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
PCB-17	NC	ng/L	0.0023Q,J
PCB-170	NC	ng/L	0.038U
PCB-171	NC	ng/L	0.038U
PCB-172	NC	ng/L	0.038U
PCB-173	NC	ng/L	0.038U
PCB-174	NC	ng/L	0.038U
PCB-175	NC	ng/L	0.038U
PCB-176	NC	ng/L	0.038U
PCB-177	NC	ng/L	0.038U
PCB-178	NC	ng/L	0.038U
PCB-179	NC	ng/L	0.038U
PCB-18	NC	ng/L	0.0075B,C,J
PCB-180	NC	ng/L	0.0018B,C,J
PCB-181	NC	ng/L	0.038U
PCB-182	NC	ng/L	0.038U
PCB-183	NC	ng/L	0.038U
PCB-184	NC	ng/L	0.038U
PCB-185	NC	ng/L	0.038U
PCB-186	NC	ng/L	0.038U
PCB-187/182/159	NC	ng/L	0.038U
PCB-188	NC	ng/L	0.038U
PCB-189	NC	ng/L	0.0026J
PCB-19	NC	ng/L	0.038U
PCB-190	NC	ng/L	0.038U
PCB-191	NC	ng/L	0.038U
PCB-192	NC	ng/L	0.0018B,C180,J
PCB-193	NC	ng/L	0.038U
PCB-194	NC	ng/L	0.038U
PCB-195	NC	ng/L	0.038U
PCB-196/203	NC	ng/L	0.038U
PCB-197	NC	ng/L	0.038U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 65
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
PCB-198	NC	ng/L	0.038U
PCB-199	NC	ng/L	0.038U
PCB-2	NC	ng/L	0.0039B,C,J
PCB-20	NC	ng/L	0.038U
PCB-200	NC	ng/L	0.038U
PCB-201	NC	ng/L	0.038U
PCB-202	NC	ng/L	0.038U
PCB-204	NC	ng/L	0.038U
PCB-205	NC	ng/L	0.038U
PCB-206	NC	ng/L	0.038U
PCB-207	NC	ng/L	0.038U
PCB-208	NC	ng/L	0.0019B,J
PCB-22	NC	ng/L	0.038U
PCB-23	NC	ng/L	0.038U
PCB-24	NC	ng/L	0.038U
PCB-25	NC	ng/L	0.038U
PCB-26	NC	ng/L	0.038U
PCB-27	NC	ng/L	0.038U
PCB-29	NC	ng/L	0.038U
PCB-3	NC	ng/L	0.0033Q,B,J
PCB-31	NC	ng/L	0.038U
PCB-32	NC	ng/L	0.0022Q,B,C21,J
PCB-33	NC	ng/L	0.038U
PCB-34	NC	ng/L	0.038U
PCB-35	NC	ng/L	0.038U
PCB-36	NC	ng/L	0.038U
PCB-37	NC	ng/L	0.038U
PCB-38	NC	ng/L	0.038U
PCB-39	NC	ng/L	0.015Q,B,J
PCB-4	NC	ng/L	0.0019Q,B,C,J
PCB-40	NC	ng/L	0.0019Q,B,C40,J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 65
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
PCB-41	NC	ng/L	0.038U
PCB-42	NC	ng/L	0.038U
PCB-43	NC	ng/L	0.0051Q,B,C,J
PCB-44	NC	ng/L	0.038U
PCB-45	NC	ng/L	0.038U
PCB-46	NC	ng/L	0.0051Q,B,C44,J
PCB-47	NC	ng/L	0.038U
PCB-48	NC	ng/L	0.038U
PCB-49	NC	ng/L	0.038U
PCB-5	NC	ng/L	0.038U
PCB-50	NC	ng/L	0.038U
PCB-51	NC	ng/L	0.038U
PCB-53	NC	ng/L	0.038U
PCB-54	NC	ng/L	0.038U
PCB-55	NC	ng/L	0.038U
PCB-56	NC	ng/L	0.038U
PCB-57	NC	ng/L	0.038U
PCB-58	NC	ng/L	0.0017Q,B,J
PCB-6	NC	ng/L	0.0036Q,B,C,J
PCB-61	NC	ng/L	0.038U
PCB-62	NC	ng/L	0.038U
PCB-63	NC	ng/L	0.0051Q,B,C44,J
PCB-65	NC	ng/L	0.0018B,J
PCB-66	NC	ng/L	0.038U
PCB-67	NC	ng/L	0.038U
PCB-68	NC	ng/L	0.038U
PCB-69	NC	ng/L	0.0010Q,B,J
PCB-7	NC	ng/L	0.0036Q,B,C61,J
PCB-70	NC	ng/L	0.0019Q,B,C40,J
PCB-71	NC	ng/L	0.038U
PCB-73	NC	ng/L	0.0036Q,B,C61,J

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 65
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class GA Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
PCB-74	NC	ng/L	0.0036Q,B,C61,J
PCB-76/66	NC	ng/L	0.038U
PCB-77	NC	ng/L	0.038U
PCB-78	NC	ng/L	0.038U
PCB-79	NC	ng/L	0.0061Q,B,J
PCB-8	NC	ng/L	0.038U
PCB-80	NC	ng/L	0.038U
PCB-81	NC	ng/L	0.038U
PCB-82	NC	ng/L	0.038U
PCB-83	NC	ng/L	0.038U
PCB-84	NC	ng/L	0.038U
PCB-85	NC	ng/L	0.038U
PCB-86	NC	ng/L	0.038U
PCB-87	NC	ng/L	0.038U
PCB-88	NC	ng/L	0.038U
PCB-89	NC	ng/L	0.038U
PCB-9	NC	ng/L	0.0023Q,B,C,J
PCB-90	NC	ng/L	0.038U
PCB-92	NC	ng/L	0.038U
PCB-93	NC	ng/L	0.038U
PCB-94	NC	ng/L	0.0030Q,B,J
PCB-95	NC	ng/L	0.038U
PCB-96	NC	ng/L	0.038U
PCB-97	NC	ng/L	0.037EMPC,U
Total Di-CB	NC	ng/L	0.0018U
Total Hepta-CB	NC	ng/L	0.0063EMPC,U
Total Hexa-CB	NC	ng/L	0.0076J
Total Mono-CB	NC	ng/L	0.038U
Total Nona-CB	NC	ng/L	0.038U
Total Octa-CB	NC	ng/L	0.011EMPC,U
Total Penta-CB	NC	ng/L	0.017EMPC,U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 65
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 1668 PCB Congener and Homolog Data

		Field Sample ID	SB915-3114-01
		Location	SB915-PCP-02
	NYS	Sample Date	02/27/2013
	Class GA	Sample Purpose	Regular Sample
Parameter Name	Criteria	Units	
Total Tetra-CB	NC	ng/L	0.027EMPC,U
Total Tri-CB	NC	ng/L	0.027J,B,Q

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.

C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.

Total PCBs determined by summing the detected PCB congeners.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 66
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3111-01 SB915-MH-01 02/26/2013 Regular Sample	SB915-3111-02 SB915-MH-02 02/26/2013 Regular Sample	SB915-3111-03 SB915-MH-03 02/26/2013 Regular Sample	SB915-3111-04 SB915-MH-04 02/26/2013 Regular Sample	SB915-3111-06 SB915-MH-05 02/26/2013 Regular Sample	SB915-3111-07 SB915-MH-06 02/26/2013 Regular Sample	SB915-3111-08 SB915-MH-07 02/26/2013 Regular Sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	780J	770J	1300J	1100J	1200J	1100J	870J
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	1U	1U	1U	1U	1U	1U	1U
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	50U	50U	50U	50U	50U	50U	50U
MANGANESE	0.3(S)	mg/L	0.15U	0.15U	0.15U	0.15U	0.15U	0.15U	0.15U
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	50U	50U	55	50	53	50U	50U
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[650J]	[650J]	[1100J]	[1000J]	[1100J]	[880J]	[770J]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA	NA

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 66
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3111-09 SB915-MH-08 02/26/2013 Regular Sample	SB915-3111-12 SB915-MH-09 02/26/2013 Regular Sample	SB915-3112-01 SB915-MH-10 02/26/2013 Regular Sample	SB915-3112-02 SB915-MH-11 02/26/2013 Regular Sample	SB915-3112-03 SB915-MH-12 02/26/2013 Regular Sample	SB915-3112-04 SB915-MH-13 02/26/2013 Regular Sample	SB915-3113-01 SB915-MH-14 02/27/2013 Regular Sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	740J	900J	2600J	3200J	3200J	3900J	2500J
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
COBALT	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
IRON	0.3(S)	mg/L	1U	1U	1U	1U	1U	1U	1U
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	50U	50U	50U	50U	50U	50U	50U
MANGANESE	0.3(S)	mg/L	0.15U	0.15U	0.15U	0.15U	0.15U	0.15	0.25
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
POTASSIUM	NC	mg/L	50U	50U	68	62	76	100	76
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SODIUM	20(S)	mg/L	[660J]	[790J]	[1700J]	[1900J]	[2000J]	[2400J]	[1600J]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	NA	NA
TIN	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	NA	NA
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	NA	NA

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 66
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Inorganic Compound Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3113-02 SB915-MH-15 02/27/2013 Regular Sample	SB915-3113-03 SB915-MH-16 02/27/2013 Regular Sample	SB915-3113-04 SB915-MH-17 02/27/2013 Regular Sample	SB915-3113-05 SB915-MH-18 02/27/2013 Regular Sample	SB915-3113-06 SB915-PCP-01 02/27/2013 Regular Sample	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
ALUMINUM	NC	mg/L	NA	NA	NA	NA	NA	2U
ANTIMONY	0.003(S)	mg/L	NA	NA	NA	NA	NA	0.1U
ARSENIC	0.025(S)	mg/L	NA	NA	NA	NA	NA	0.1U
BARIUM	1(S)	mg/L	NA	NA	NA	NA	NA	2U
BERYLLIUM	0.003(G)	mg/L	NA	NA	NA	NA	NA	0.04U
BORON	1(S)	mg/L	NA	NA	NA	NA	NA	2U
CADMIUM	0.005(S)	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	mg/L	300J	400J	160J	110J	670J	3200J
CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	0.05U
COBALT	NC	mg/L	NA	NA	NA	NA	NA	0.5U
COPPER	0.2(S)	mg/L	NA	NA	NA	NA	NA	0.25U
CYANIDE	0.2(S)	mg/L	NA	NA	NA	NA	NA	0.01U
HEXAVALENT CHROMIUM	0.05(S)	mg/L	NA	NA	NA	NA	NA	0.001R
IRON	0.3(S)	mg/L	1U	1U	1U	1U	1U	[6]
LEAD	0.025(S)	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	35(G)	mg/L	50U	50U	50U	50U	50U	[70]
MANGANESE	0.3(S)	mg/L	0.15U	0.16	0.15U	0.15U	[0.44]	[0.68]
MERCURY	0.0007(S)	mg/L	NA	NA	NA	NA	NA	0.0000039
NICKEL	0.1(S)	mg/L	NA	NA	NA	NA	NA	0.4U
POTASSIUM	NC	mg/L	50U	50U	50U	50U	50U	83
SELENIUM	0.01(S)	mg/L	NA	NA	NA	NA	NA	0.05U
SILVER	0.05(S)	mg/L	NA	NA	NA	NA	NA	0.05U
SODIUM	20(S)	mg/L	[190J]	[240J]	[98J]	[66J]	[350J]	[2200J]
THALLIUM	0.0005(G)	mg/L	NA	NA	NA	NA	NA	0.1U
TIN	NC	mg/L	NA	NA	NA	NA	NA	1U
VANADIUM	NC	mg/L	NA	NA	NA	NA	NA	0.5U
ZINC	2(G)	mg/L	NA	NA	NA	NA	NA	0.2U

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 67
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8290 Dioxins/Furans Data

		Field Sample ID	SB915-3114-01
		Location	SB915-PCP-02
	NYS	Sample Date	02/27/2013
	Class GA	Sample Purpose	Regular Sample
Parameter Name	Criteria	Units	
1,2,3,4,6,7,8-HPCDD	NC	ng/L	0.048U
1,2,3,4,6,7,8-HPCDF	NC	ng/L	0.048U
1,2,3,4,7,8,9-HPCDF	NC	ng/L	0.048U
1,2,3,4,7,8-HXCDD	NC	ng/L	0.048U
1,2,3,4,7,8-HXCDF	NC	ng/L	0.048U
1,2,3,6,7,8-HXCDD	NC	ng/L	0.048U
1,2,3,6,7,8-HXCDF	NC	ng/L	0.048U
1,2,3,7,8,9-HXCDD	NC	ng/L	0.048U
1,2,3,7,8,9-HXCDF	NC	ng/L	0.048U
1,2,3,7,8-PECDD	NC	ng/L	0.048U
1,2,3,7,8-PECDF	NC	ng/L	0.048U
2,3,4,6,7,8-HXCDF	NC	ng/L	0.048U
2,3,4,7,8-PECDF	NC	ng/L	0.048U
2,3,7,8-TCDD	NC	ng/L	0.0096U
2,3,7,8-TCDF	NC	ng/L	0.0096U
OCDD	NC	ng/L	0.002EMPC,J
OCDF	NC	ng/L	0.096U
TOTAL HPCDD	NC	ng/L	0.048U
TOTAL HPCDF	NC	ng/L	0.048U
TOTAL HXCDD	NC	ng/L	0.048U
TOTAL HXCDF	NC	ng/L	0.048U
TOTAL PECDD	NC	ng/L	0.048U
TOTAL PECDF	NC	ng/L	0.048U
TOTAL TCDD	NC	ng/L	0.0096U
TOTAL TCDF	NC	ng/L	0.0096U

NOTES:

J = Estimated result as value is below the Minimum Level; U = Analyte not detected; B = Analyte detected in the method blank; Q = Estimate maximum possible concentration.

EMPC = Estimate maximum possible concentration.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 68
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3111-01 SB915-MH-01 02/26/2013 Regular Sample	SB915-3111-02 SB915-MH-02 02/26/2013 Regular Sample	SB915-3111-03 SB915-MH-03 02/26/2013 Regular Sample	SB915-3111-04 SB915-MH-04 02/26/2013 Regular Sample	SB915-3111-06 SB915-MH-05 02/26/2013 Regular Sample	SB915-3111-07 SB915-MH-06 02/26/2013 Regular Sample	SB915-3111-08 SB915-MH-07 02/26/2013 Regular Sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	72J	67J	56J	56J	58J	74J	47J
ALKALINITY, TOTAL	NC	mg/L	87	91	64	64	60	97	50
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	53	56	42	48	44	67	48
BROMIDE	2(G)	mg/L	2.5U	2.5U	5.0U	5.0U	5.0U	5.0U	5.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	330J	720J	210J	200J	340J	400J	180J
CHLORIDE	250(S)	mg/L	[2700J]	[2500J]	[3900J]	[3500J]	[3400J]	[3800J]	[3800J]
HARDNESS (AS CACO3)	NC	mg/L	2200	2200	3100	2900	2800	3200	2900
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[10]	[11]	[9.7]	[9.7]	[11]	[12]	[10]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	14	14	13	10	11	13	13
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.50U	0.50U	1.0U	1.0U	1.0U	1.0U	1.0U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	21	21	22	23	23	21	23
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	4600	4600	5900	5500	5800	6400	6100
TOTAL ORGANIC CARBON	NC	mg/L	22	23	17	17	17	24	17
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[1.0]	[0.96]	[0.90]	[0.79]	[0.91]	[0.88]	[0.87]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 68
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3111-09 SB915-MH-08 02/26/2013 Regular Sample	SB915-3111-12 SB915-MH-09 02/26/2013 Regular Sample	SB915-3112-01 SB915-MH-10 02/26/2013 Regular Sample	SB915-3112-02 SB915-MH-11 02/26/2013 Regular Sample	SB915-3112-03 SB915-MH-12 02/26/2013 Regular Sample	SB915-3112-04 SB915-MH-13 02/26/2013 Regular Sample	SB915-3113-01 SB915-MH-14 02/27/2013 Regular Sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	13J	10J	5.0U	5.0U	5.0U	5.0U	6.8J
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	24J	30J	44J	56J	43J	36J	30J
ALKALINITY, TOTAL	NC	mg/L	36	40	70	160	65	52	37
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	46	38	25	26	24U	18	13
BROMIDE	2(G)	mg/L	5.0U	5.0U	5.0U	13U	13U	13U	13U
CHEMICAL OXYGEN DEMAND	NC	mg/L	270J	480J	460J	310J	410J	720J	1400J
CHLORIDE	250(S)	mg/L	[3500J]	[3200J]	[7300J]	[11000J]	[10000J]	[11000J]	[8200J]
HARDNESS (AS CACO3)	NC	mg/L	2800	2900	6800	11000	11000	9900	7800
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[11]	[11]	[9.3]	[8.2]	[7.5]	[6]	[3.8J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	12	12	10	10	8.6	8.6	5.0U
NITROGEN, NITRATE (AS N)	10(S)	mg/L	1.0U	1.0U	1.0U	2.5U	2.5U	2.5U	2.5U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	NA	NA
SULFATE	250(S)	mg/L	21	22	20	25U	26	27	48
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	4700	5600	9500	20000	22000	19000	12000
TOTAL ORGANIC CARBON	NC	mg/L	17	17	10	6.9	5.6	5.4	4.1
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.85]	[0.90]	[0.66]	[0.42]	[0.37]	[0.36]	[0.18J]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 68
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Other Data

Parameter Name	NYS Class GA Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3113-02 SB915-MH-15 02/27/2013 Regular Sample	SB915-3113-03 SB915-MH-16 02/27/2013 Regular Sample	SB915-3113-04 SB915-MH-17 02/27/2013 Regular Sample	SB915-3113-05 SB915-MH-18 02/27/2013 Regular Sample	SB915-3113-06 SB915-PCP-01 02/27/2013 Regular Sample	SB915-3114-01 SB915-PCP-02 02/27/2013 Regular Sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	60J	68J	220J	220J	31J	5.0U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	73
ALKALINITY, TOTAL	NC	mg/L	60	68	220	220	31	190
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	36	36	8.1	8.3	2.0U	17
BROMIDE	2(G)	mg/L	1.3U	1.3U	0.50U	0.50U	2.5U	13U
CHEMICAL OXYGEN DEMAND	NC	mg/L	130J	150J	34J	30J	110J	450J
CHLORIDE	250(S)	mg/L	[1100J]	[1000J]	[300J]	[290J]	[2000J]	[12000J]
HARDNESS (AS CACO3)	NC	mg/L	1100	1100	450	450	1900	11000
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	[11J]	[10J]	[2.3J]	[2.1J]	0.64J	[4.5J]
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	12	11	5.0U	5.0U	5.0U	5.7
NITROGEN, NITRATE (AS N)	10(S)	mg/L	0.25U	0.25U	0.19	0.18	0.61	2.5U
NITROGEN, NITRITE	1(S)	mg/L	NA	NA	NA	NA	NA	1.3U
SULFATE	250(S)	mg/L	57	57	58	59	32	[310]
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	2100	2000	790	720	3500	20000
TOTAL ORGANIC CARBON	NC	mg/L	18	18	6.2	5.9	4.7	7
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	[0.55J]	[0.56J]	[0.19J]	[0.19J]	0.010U	[0.088J]

NOTES:

J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.

NA = Analyte not analyzed for; NC = No applicable criteria.

[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 69
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Subsurface Leachate
Method 8290 Dioxins/Furans Equivalence Summary Data

		Field Sample ID	SB915-3114-01
		Location	SB915-PCP-02
		Sample Date	02/27/2013
		Sample Purpose	Regular Sample
Parameter Name	TEF	Units	
1,2,3,4,6,7,8-HPCDD	0.01	ng/L	---
1,2,3,4,6,7,8-HPCDF	0.01	ng/L	---
1,2,3,4,7,8,9-HPCDF	0.01	ng/L	---
1,2,3,4,7,8-HXCDD	0.1	ng/L	---
1,2,3,4,7,8-HXCDF	0.1	ng/L	---
1,2,3,6,7,8-HXCDD	0.1	ng/L	---
1,2,3,6,7,8-HXCDF	0.1	ng/L	---
1,2,3,7,8,9-HXCDD	0.1	ng/L	---
1,2,3,7,8,9-HXCDF	0.1	ng/L	---
1,2,3,7,8-PECDD	1	ng/L	---
1,2,3,7,8-PECDF	0.03	ng/L	---
2,3,4,6,7,8-HXCDF	0.1	ng/L	---
2,3,4,7,8-PECDF	0.3	ng/L	---
2,3,7,8-TCDD	1	ng/L	---
2,3,7,8-TCDF	0.1	ng/L	---
OCDD	0.0003	ng/L	0.0000006
OCDF	0.0003	ng/L	---
Total TEQ		ng/L	0.0000006

NOTES:

TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.

--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 70
Honeywell
Wastebeds 9-15 Closure Investigation
Wastebeds 12-15 Subsurface Leachate
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
VOCs								
BENZENE	1(S)	µg/L	18	17	0.60	23.6	62.0	16
CHLOROBENZENE	5(S)	µg/L	18	17	1.20	11.4	44.0	13
1,2-DICHLOROBENZENE	3(S)	µg/L	18	17	0.63	4.19	11.0	11
1,4-DICHLOROBENZENE	3(S)	µg/L	18	17	0.65	5.08	17.0	10
ACETONE	50(S)	µg/L	18	17	9.70	63.5	150	8
TOLUENE	5(S)	µg/L	18	17	0.49	3.19	9.30	2
2-BUTANONE	50(G)	µg/L	18	17	1.80	6.37	12.0	0
1,3-DICHLOROBENZENE	3(S)	µg/L	18	11	0.12	0.23	0.34	0
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	18	9	0.29	0.50	0.79	0
XYLENES, TOTAL	5(S)	µg/L	18	5	0.63	1.31	2.20	0
2-HEXANONE	50(G)	µg/L	18	4	0.28	0.49	0.89	0
CARBON DISULFIDE	60(G)	µg/L	18	3	0.25	0.39	0.65	0
1,2-DICHLOROETHANE	0.6(S)	µg/L	18	2	0.35	0.37	0.38	0
4-METHYL-2-PENTANONE	NC	µg/L	18	7	0.58	0.74	0.92	NA
ISOBUTANOL	NC	µg/L	18	3	5.10	13.3	28.0	NA
ACETONITRILE	NC	µg/L	18	1	7.00	7.00	7.00	NA
ETHYL CYANIDE	NC	µg/L	18	1	0.54	0.54	0.54	NA
SVOCs								
PHENOL	1(S)	µg/L	18	18	90.0	274	1400	18
2-METHYLPHENOL	1(S)	µg/L	18	2	0.77	1.24	1.70	1
NAPHTHALENE	10(G)	µg/L	18	7	0.89	1.48	3.00	0
ACENAPHTHENE	20(G)	µg/L	18	5	0.34	0.51	0.84	0
FLUORANTHENE	50(G)	µg/L	18	1	0.09	0.09	0.09	0
PHENANTHRENE	50(G)	µg/L	18	1	0.34	0.34	0.34	0
PYRENE	50(G)	µg/L	18	1	0.10	0.10	0.10	0
3&4-METHYLPHENOL	NC	µg/L	18	11	1.70	15.1	130	NA
ACETOPHENONE	NC	µg/L	18	10	1.70	2.77	5.20	NA
2-METHYLNAPHTHALENE	NC	µg/L	18	6	0.27	0.40	0.72	NA
Pesticides								
4,4'-DDT	0.2(S)	µg/L	18	5	0.0008	0.002	0.003	0
BETA-BHC	0.04(S)	µg/L	18	2	0.001	0.001	0.001	0
HEXACHLOROBENZENE	0.04(S)	µg/L	18	2	0.0002	0.0002	0.0002	0
DELTA-BHC	0.04(S)	µg/L	18	1	0.0005	0.0005	0.0005	0
ENDRIN ALDEHYDE	0.5(S)	µg/L	18	1	0.002	0.002	0.002	0
HEPTACHLOR	0.04(S)	µg/L	18	1	0.001	0.001	0.001	0
ENDOSULFAN I	NC	µg/L	18	8	0.001	0.002	0.003	NA
High Resolution PCBs								
TOTAL PCBS	90(S)	ng/L	18	18	0.62	1.91	4.20	0
Dioxins/Furans								
TOTAL TEQ	0.0007(S)	ng/L	18	4	0.0000004	0.0001	0.0005	0
Inorganic Parameters								
SODIUM	20(S)	mg/L	70	70	66	1,818	5300	70
BARIUM	1(S)	mg/L	35	30	0.68	1.72	3.60	19
IRON	0.3(S)	mg/L	70	24	0.01	1.26	7.40	10
MANGANESE	0.3(S)	mg/L	70	34	0.004	0.18	0.63	7
MERCURY	0.0007(S)	mg/L	18	18	0.00006	0.0002	0.001	2
MAGNESIUM	35(G)	mg/L	70	17	1.50	4.19	20	0
NICKEL	0.1(S)	mg/L	35	17	0.01	0.03	0.08	0
CYANIDE	0.2(S)	mg/L	18	13	0.002	0.007	0.02	0
COPPER	0.2(S)	mg/L	35	10	0.0027	0.01	0.02	0
ARSENIC	0.025(S)	mg/L	35	9	0.003	0.004	0.007	0
ALUMINUM	NC	mg/L	35	5	0.08	0.16	0.26	0
ANTIMONY	0.003(G)	mg/L	35	1	0.002	0.002	0.002	0
ZINC	2(G)	mg/L	35	1	0.006	0.006	0.006	0
CALCIUM	NC	mg/L	70	70	110	2,419	7900	NA
POTASSIUM	NC	mg/L	70	47	50	106	230	NA
COBALT	NC	mg/L	35	6	0.0004	0.0006	0.0008	NA
VANADIUM	NC	mg/L	35	1	0.003	0.003	0.003	NA
Other Parameters								
CHLORIDE	250(S)	mg/L	70	70	290	7,338	26,000	70
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	70	70	0.02	0.42	3.10	70
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	70	70	0.49	8.68	46.0	65
BROMIDE	2(G)	mg/L	70	26	1.40	3.60	5.80	24
SULFATE	250(S)	mg/L	70	62	16.0	45.6	230	0
NITROGEN, NITRATE (AS N)	10(S)	mg/L	70	11	0.18	0.97	3.00	0
ALKALINITY, TOTAL	NC	mg/L	70	70	16.0	126.5	360	NA
HARDNESS (AS CACO3)	NC	mg/L	70	70	450	6,349	19,000	NA
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	70	70	720	14,741	54,000	NA
TOTAL ORGANIC CARBON	NC	mg/L	70	70	2.70	10.6	56.0	NA
CHEMICAL OXYGEN DEMAND	NC	mg/L	70	67	9.70	651	2,800	NA
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	70	66	3.30	27.3	150	NA
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	70	52	5.00	17.3	110	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	70	47	5.30	50.5	99.0	NA
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	70	32	6.80	111	330	NA

NOTES:
NC = no applicable criteria; NA = not available as no applicable criteria

Table 71
Honeywell
Wastebeds 9-15 Closure Investigation
Wastebeds 9-11 Subsurface Leachate
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class GA Criteria	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
VOCs								
BENZENE	1(S)	µg/L	2	2	3.40	4.10	4.80	2
ACETONE	50(S)	µg/L	2	2	7.90	39.0	70.0	1
2-BUTANONE	50(G)	µg/L	2	2	1.20	5.30	9.40	0
1,2-DICHLOROBENZENE	3(S)	µg/L	2	1	1.00	1.00	1.00	0
1,4-DICHLOROBENZENE	3(S)	µg/L	2	1	0.31	0.31	0.31	0
CHLOROBENZENE	5(S)	µg/L	2	1	0.48	0.48	0.48	0
TOLUENE	5(S)	µg/L	2	1	0.34	0.34	0.34	0
SVOCs								
PHENOL	1(S)	µg/L	2	2	1.20	22.1	43.0	2
2-METHYLPHENOL	1(S)	µg/L	2	2	0.13	5.57	11.0	1
NAPHTHALENE	10(G)	µg/L	2	1	0.21	0.21	0.21	0
PHENANTHRENE	50(G)	µg/L	2	1	0.10	0.10	0.10	0
3&4-METHYLPHENOL	NC	µg/L	2	2	0.55	50.3	100	NA
2-METHYLNAPHTHALENE	NC	µg/L	2	1	0.02	0.02	0.02	NA
ACETOPHENONE	NC	µg/L	2	1	0.15	0.15	0.15	NA
High Resolution PCBs								
TOTAL PCBS	90(S)	ng/L	2	2	0.17	0.90	1.63	0
Dioxins/Furans								
TOTAL TEQ	0.0007(S)	ng/L	2	2	0.0000006	0.000001	0.000002	0
Inorganic Parameters								
MANGANESE	0.3(S)	mg/L	4	4	0.44	0.68	1.10	4
SODIUM	20(S)	mg/L	4	4	350	980	2,200	4
IRON	0.3(S)	mg/L	4	3	0.42	2.74	6.00	3
MAGNESIUM	35(G)	mg/L	4	2	11.0	40.5	70.0	1
MERCURY	0.0007(S)	mg/L	2	2	0.000004	0.000006	0.000009	0
BARIUM	1(S)	mg/L	2	1	0.41	0.41	0.41	0
COPPER	0.2(S)	mg/L	2	1	0.003	0.003	0.003	0
CYANIDE	0.2(S)	mg/L	2	1	0.004	0.004	0.004	0
NICKEL	0.1(S)	mg/L	2	1	0.005	0.005	0.005	0
CALCIUM	NC	mg/L	4	4	670	1,643	3200	NA
POTASSIUM	NC	mg/L	4	3	56.0	66.7	83.0	NA
ALUMINUM	NC	mg/L	2	1	0.20	0.20	0.20	NA
Other Parameters								
CHLORIDE	250(S)	mg/L	4	4	2,000	5,075	12,000	4
TOTAL RECOVERABLE PHENOLICS	0.001(S)	mg/L	4	2	0.008	0.05	0.09	2
NITROGEN, AMMONIA (AS N)	2(S)	mg/L	4	4	0.64	1.71	4.50	1
SULFATE	250(S)	mg/L	4	4	31.0	110	310	1
NITROGEN, NITRATE (AS N)	10(S)	mg/L	4	2	0.31	0.46	0.61	0
BROMIDE	2(G)	mg/L	4	1	1.60	1.60	1.60	0
ALKALINITY, TOTAL	NC	mg/L	4	4	29.0	77.0	190	NA
CHEMICAL OXYGEN DEMAND	NC	mg/L	4	4	35.0	198.75	450	NA
HARDNESS (AS CACO3)	NC	mg/L	4	4	64.0	4,116	11,000	NA
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	4	4	3,500	8,625	20,000	NA
TOTAL ORGANIC CARBON	NC	mg/L	4	4	4.40	5.85	7.30	NA
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	4	3	14	34.3	58.0	NA
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	4	3	3.20	7.83	17.0	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	4	2	15.0	44.0	73.0	NA
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	4	1	5.70	5.70	5.70	NA

NOTES:
NC = no applicable criteria; NA = not available as no applicable criteria.

Table 72
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1U
1,1,1-TRICHLOROETHANE	NC	µg/L	1U
1,1,2,2-TETRACHLOROETHANE	NC	µg/L	1U
1,1,2-TRICHLOROETHANE	NC	µg/L	1U
1,1-DICHLOROETHANE	NC	µg/L	1U
1,1-DICHLOROETHENE	NC	µg/L	1U
1,1-DICHLOROPROPENE	NC	µg/L	1U
1,2,3-TRICHLOROPROPANE	NC	µg/L	1U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1UJ
1,2-DIBROMO-3-CHLOROPROPANE	NC	µg/L	1UJ
1,2-DIBROMOETHANE	NC	µg/L	1U
1,2-DICHLOROBENZENE	5(S)	µg/L	[7.1]
1,2-DICHLOROETHANE	NC	µg/L	1U
1,2-DICHLOROPROPANE	NC	µg/L	1U
1,3-DICHLOROBENZENE	5(S)	µg/L	1J
1,3-DICHLOROPROPANE	NC	µg/L	1U
1,4-DICHLOROBENZENE	5(S)	µg/L	[8.0]
2,2-DICHLOROPROPANE	NC	µg/L	1U
2-BUTANONE	NC	µg/L	2.4J
2-HEXANONE	NC	µg/L	1U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1U
4-METHYL-2-PENTANONE	NC	µg/L	0.70J
ACETONE	NC	µg/L	22
ACETONITRILE	NC	µg/L	20U
ACROLEIN	NC	µg/L	20U
ACRYLONITRILE	NC	µg/L	20U
ALLYL CHLORIDE	NC	µg/L	1U
BENZENE	10(S)	µg/L	[49]
BROMOCHLOROMETHANE	NC	µg/L	1U
BROMODICHLOROMETHANE	NC	µg/L	1U
BROMOFORM	NC	µg/L	1U
BROMOMETHANE	NC	µg/L	1U
CARBON DISULFIDE	NC	µg/L	1U
CARBON TETRACHLORIDE	NC	µg/L	1U
CHLOROBENZENE	5(S)	µg/L	[56]
CHLOROETHANE	NC	µg/L	1U
CHLOROFORM	NC	µg/L	1U
CHLOROMETHANE	NC	µg/L	1U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 72
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
CHLOROPRENE	NC	µg/L	1UJ
CIS-1,2-DICHLOROETHENE	NC	µg/L	1U
CIS-1,3-DICHLOROPROPENE	NC	µg/L	1UJ
Dibromochloromethane	NC	µg/L	1U
DIBROMOMETHANE	NC	µg/L	1U
DICHLORODIFLUOROMETHANE	NC	µg/L	1U
ETHYL CYANIDE	NC	µg/L	2U
ETHYL METHACRYLATE	NC	µg/L	1U
ETHYLBENZENE	17(G)	µg/L	1U
IODOMETHANE	NC	µg/L	1U
ISOBUTANOL	NC	µg/L	40R
METHYL METHACRYLATE	NC	µg/L	1U
METHYLENE CHLORIDE	200(S)	µg/L	1U
STYRENE	NC	µg/L	1U
TETRACHLOROETHENE	1(G)	µg/L	1U
TOLUENE	100(G)	µg/L	7
TRANS-1,2-DICHLOROETHENE	NC	µg/L	1U
TRANS-1,3-DICHLOROPROPENE	NC	µg/L	1U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1U
TRICHLOROETHENE	40(S)	µg/L	1U
TRICHLOROFLUOROMETHANE	NC	µg/L	1U
VINYL ACETATE	NC	µg/L	1U
VINYL CHLORIDE	NC	µg/L	1U
XYLENES, TOTAL	65(G)	µg/L	3.5

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 73
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3115-01 / SB915-CIWP-SP-33 / 03/18/2013 / Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	5UJ
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	1U
1,3,5-TRINITROBENZENE	NC	µg/L	1UJ
1,3-DINITROBENZENE	NC	µg/L	1U
1,4-NAPHTHOQUINONE	NC	µg/L	1U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00U
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00U
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.2U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	1U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	1U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.27J
2,4-DICHLOROPHENOL	1(S)	µg/L	[1.5]
2,4-DIMETHYLPHENOL	5(S)	µg/L	0.13J
2,4-DINITROPHENOL	400(S)	µg/L	5U
2,4-DINITROTOLUENE	NC	µg/L	1U
2,6-DICHLOROPHENOL	NC	µg/L	1U
2,6-DINITROTOLUENE	NC	µg/L	1U
2-ACETYLAMINOFLUORENE (TIC)	NC	µg/L	1U
2-CHLORONAPHTHALENE	NC	µg/L	0.2U
2-CHLOROPHENOL	1(S)	µg/L	0.71J
2-METHYLNAPHTHALENE	4.7(G)	µg/L	0.048J
2-METHYLPHENOL	NC	µg/L	0.23J
2-NAPHTHYLAMINE	NC	µg/L	1UJ
2-NITROANILINE	NC	µg/L	5U
2-NITROPHENOL	NC	µg/L	1U
3&4-METHYLPHENOL	NC	µg/L	0.76J
3,3'-DICHLOROBENZIDINE	NC	µg/L	1U
3-METHYLCHOLANTHRENE	NC	µg/L	1U
3-NITROANILINE	NC	µg/L	5U
4,6-DINITRO-2-METHYLPHENOL	NC	µg/L	5UJ
4-AMINOBIPHENYL	NC	µg/L	1U
4-BROMOPHENYL PHENYL ETHER	NC	µg/L	1U
4-CHLORO-3-METHYLPHENOL	NC	µg/L	1U
4-CHLOROANILINE	NC	µg/L	1U
4-CHLOROPHENYL PHENYL ETHER	NC	µg/L	1U
4-NITROANILINE	NC	µg/L	5U
4-NITROPHENOL	NC	µg/L	5UJ
5-NITRO-O-TOLUIDINE	NC	µg/L	1U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	1U

Table 73
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3115-01 / SB915-CIWP-SP-33 / 03/18/2013 / Regular sample
ACENAPHTHENE	5.3(G)	µg/L	0.2U
ACENAPHTHYLENE	NC	µg/L	0.2U
ACETOPHENONE	NC	µg/L	2.9
ALPHA-NAPHTHYLAMINE	NC	µg/L	1U
ANTHRACENE	3.8(G)	µg/L	0.2U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	1U
CHLOROBENZILATE	NC	µg/L	1U
BENZO(A)ANTHRACENE	0.03(G)	µg/L	0.2U
BENZO(A)PYRENE	0.0012(G)	µg/L	0.2U
BENZO(B)FLUORANTHENE	NC	µg/L	0.2U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.2U
BENZO(K)FLUORANTHENE	NC	µg/L	0.2U
BENZYL ALCOHOL	NC	µg/L	1U
BIS(2-CHLOROETHOXY)METHANE	NC	µg/L	1U
BIS(2-CHLOROETHYL)ETHER	NC	µg/L	0.2U
BIS(2-ETHYLHEXYL)PHTHALATE	0.6(S)	µg/L	2UJ
BUTYLBENZYL PHTHALATE	NC	µg/L	1UJ
DIALLATE	NC	µg/L	1U
CHRYSENE	NC	µg/L	0.2U
DI-N-BUTYL PHTHALATE	NC	µg/L	1U
DI-N-OCTYL PHTHALATE	NC	µg/L	1U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.2U
DIBENZOFURAN	NC	µg/L	1U
DIETHYL PHTHALATE	NC	µg/L	0.58J
DIMETHYL PHTHALATE	NC	µg/L	1U
FLUORANTHENE	NC	µg/L	0.2U
FLUORENE	0.54(G)	µg/L	0.2U
HEXACHLOROBUTADIENE	1(S)	µg/L	0.2U
HEXACHLOROCYCLOPENTADIENE	0.45(S)	µg/L	1R
HEXACHLOROETHANE	0.6(S)	µg/L	1U
HEXACHLOROPROPENE	NC	µg/L	1UJ
INDENO(1,2,3-CD)PYRENE	NC	µg/L	0.2U
ISODRIN	NC	µg/L	1UJ
ISOPHORONE	NC	µg/L	1U
ISOSAFROLE	NC	µg/L	1U
KEPONE	NC	µg/L	4U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	1U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

METHAPYRILENE	NC	µg/L	1UJ
METHYL METHANESULFONATE	NC	µg/L	1UJ

Table 73
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.2U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	1U
N-NITROSODIETHYLAMINE	NC	µg/L	1U
N-NITROSODIMETHYLAMINE	NC	µg/L	1U
N-NITROSODIPHENYLAMINE	NC	µg/L	1U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	1U
N-NITROSOPIPERIDINE	NC	µg/L	1U
N-NITROSOPYRROLIDINE	NC	µg/L	1UJ
NAPHTHALENE	13(G)	µg/L	0.48
NITROBENZENE	NC	µg/L	2U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	1U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	1U
O-TOLUIDINE	NC	µg/L	1U
PENTACHLOROBENZENE	NC	µg/L	1UJ
PENTACHLORONITROBENZENE	NC	µg/L	1UJ
PENTACHLOROPHENOL	1(S)	µg/L	1U
PHENACETIN	NC	µg/L	1U
PHENANTHRENE	5(G)	µg/L	0.061J
PHENOL	5(S)	µg/L	[180]
PRONAMIDE	NC	µg/L	1U
PYRENE	4.6(G)	µg/L	0.2U
SAFROLE	NC	µg/L	1UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 74
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 8081 Pesticide Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
4,4'-DDD	0.00008(S)	µg/L	0.0012U
4,4'-DDE	0.000007(S)	µg/L	0.0012U
4,4'-DDT	0.00001(S)	µg/L	0.0012UJ
ALDRIN	0.001(S)	µg/L	0.0012U
ALPHA-BHC	0.002(S)	µg/L	0.00073J
BETA-BHC	0.007(S)	µg/L	0.0012U
CONSTITUENTS OF CHLORDANE (ALPHA, BETA, AND GAMMA)	NC	µg/L	0.012U
DELTA-BHC	0.008(S)	µg/L	0.0012U
DIELDRIN	0.056(S)	µg/L	0.0012U
ENDOSULFAN I	0.009(S)	µg/L	0.0012U
ENDOSULFAN II	0.009(S)	µg/L	0.0012U
ENDOSULFAN SULFATE	NC	µg/L	0.0012U
ENDRIN	0.036(S)	µg/L	0.0012U
ENDRIN ALDEHYDE	NC	µg/L	0.0010J
GAMMA-BHC (LINDANE)	NC	µg/L	0.0011J
HEPTACHLOR	0.0002(S)	µg/L	0.0012U
HEPTACHLOR EPOXIDE	0.0003(S)	µg/L	0.0012UJ
HEXACHLOROBENZENE	0.00003(S)	µg/L	0.0012U
METHOXYCHLOR	0.03(S)	µg/L	0.0024J
TOXAPHENE	0.000006(S)	µg/L	0.094U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 75
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 8141 Pesticide Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
DISULFOTON	NC	µg/L	0.94U
ETHYL PARATHION	NC	µg/L	0.94U
FAMPHUR	NC	µg/L	0.94U
METHYL PARATHION	NC	µg/L	0.94U
PHORATE	NC	µg/L	0.94U
THIONAZIN	NC	µg/L	0.94U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 76
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 8151 Pesticide Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
2,4,5-T	NC	µg/L	0.94U
2,4,5-TP (SILVEX)	NC	µg/L	0.94U
2,4-D	NC	µg/L	3.8U
DINOSEB	NC	µg/L	0.85U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 77
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
TOTAL PCBs	0.001(S)	ng/L	[13.53706]
10-DiCB	NC	ng/L	0.013Q,J
109-PeCB	NC	ng/L	0.18C86
112-PeCB	NC	ng/L	0.040U
142-HxCB	NC	ng/L	0.040U
143-HxCB	NC	ng/L	0.023C134,J
160-HxCB	NC	ng/L	0.17B,C129
161-HxCB	NC	ng/L	0.040U
162-HxCB	NC	ng/L	0.040U
164-HxCB	NC	ng/L	0.017J
165-HxCB	NC	ng/L	0.040U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.0059J
203-OcCB	NC	ng/L	0.0071Q,J
21-TrCB C33	NC	pg/L	31B,C,J
59-TeCB C62/75	NC	ng/L	0.0089Q,C,J
64-TeCB	NC	ng/L	0.061
72-TeCB	NC	ng/L	0.040U
98-PeCB C102	NC	ng/L	0.017C,J
PCB 101	NC	ng/L	0.51B,C90
PCB 102 (BZ)	NC	ng/L	0.017C98,J
PCB 115 (BZ)	NC	ng/L	0.29B,C110
PCB 116 (BZ)	NC	ng/L	0.025C85,J
PCB 117 (BZ)	NC	ng/L	0.025C85,J
PCB 118	NC	ng/L	0.031B,J
PCB 125 (BZ)	NC	ng/L	0.18C86
PCB 13 (BZ)	NC	ng/L	0.0040Q,B,C12,J
PCB 138	NC	ng/L	0.17B,C129
PCB 153	NC	ng/L	0.22B,C
PCB 163 (BZ)	NC	ng/L	0.17B,C129
PCB 209	NC	ng/L	0.040U
PCB 28	NC	ng/L	0.097B,C20
PCB 30	NC	ng/L	0.35B,C18
PCB 52	NC	ng/L	0.58B
PCB 75 (BZ)	NC	ng/L	0.0089Q,C59,J
PCB 91 (BZ)	NC	ng/L	0.057C88
PCB-1	NC	ng/L	0.041B
PCB-100	NC	ng/L	0.0062Q,C93,J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 77
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
PCB-103	NC	ng/L	0.040U
PCB-104	NC	ng/L	0.040U
PCB-105	NC	ng/L	0.0096J
PCB-106/118	NC	ng/L	0.040U
PCB-107/109	NC	ng/L	0.040U
PCB-108/107	NC	ng/L	0.0014Q,C,J
PCB-11	NC	ng/L	0.037B,J
PCB-110	NC	ng/L	0.29B,C
PCB-111	NC	ng/L	0.040U
PCB-113	NC	ng/L	0.51B,C90
PCB-114	NC	ng/L	0.040U
PCB-119	NC	ng/L	0.18C86
PCB-12	NC	ng/L	0.0040Q,B,C,J
PCB-120	NC	ng/L	0.040U
PCB-121	NC	ng/L	0.040U
PCB-122	NC	ng/L	0.040U
PCB-123	NC	ng/L	0.040U
PCB-124	NC	ng/L	0.0014Q,C108,J
PCB-126	NC	ng/L	0.040U
PCB-127	NC	ng/L	0.040U
PCB-128	NC	ng/L	0.012C,J
PCB-129	NC	ng/L	0.17B,C
PCB-130	NC	ng/L	0.0053Q,J
PCB-131	NC	ng/L	0.0033J
PCB-132	NC	ng/L	0.12
PCB-133	NC	ng/L	0.040U
PCB-134	NC	ng/L	0.023C,J
PCB-135	NC	ng/L	0.32C
PCB-136	NC	ng/L	0.15
PCB-137	NC	ng/L	0.040U
PCB-139	NC	ng/L	0.0031C,J
PCB-14	NC	ng/L	0.040U
PCB-140	NC	ng/L	0.0031C139,J
PCB-141	NC	ng/L	0.072
PCB-144	NC	ng/L	0.035J
PCB-145	NC	ng/L	0.040U
PCB-146	NC	ng/L	0.031J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 77
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
PCB-147	NC	ng/L	0.49B,C
PCB-148	NC	ng/L	0.040U
PCB-149	NC	ng/L	0.49B,C147
PCB-15	NC	ng/L	0.024B,J
PCB-150	NC	ng/L	0.040U
PCB-151	NC	ng/L	0.32C135
PCB-152	NC	ng/L	0.040U
PCB-153	NC	ng/L	0.11C83
PCB-154	NC	ng/L	0.040U
PCB-155	NC	ng/L	0.040U
PCB-156	NC	ng/L	0.040U
PCB-157	NC	ng/L	0.040U
PCB-158	NC	ng/L	0.013B,J
PCB-159	NC	ng/L	0.0026J
PCB-16	NC	ng/L	0.15
PCB-166	NC	ng/L	0.012C128,J
PCB-167	NC	ng/L	0.040U
PCB-168	NC	ng/L	0.22B,C153
PCB-169	NC	ng/L	0.040U
PCB-17	NC	ng/L	0.14B
PCB-170	NC	ng/L	0.019J
PCB-171	NC	ng/L	0.014C,J
PCB-172	NC	ng/L	0.0046Q,J
PCB-173	NC	ng/L	0.014C171,J
PCB-174	NC	ng/L	0.074
PCB-175	NC	ng/L	0.0023Q,J
PCB-176	NC	ng/L	0.010Q,J
PCB-177	NC	ng/L	0.032J
PCB-178	NC	ng/L	0.017J
PCB-179	NC	ng/L	0.062
PCB-18	NC	ng/L	0.35B,C
PCB-180	NC	ng/L	0.070B,C
PCB-181	NC	ng/L	0.040U
PCB-182	NC	ng/L	0.040U
PCB-183	NC	ng/L	0.046C
PCB-184	NC	ng/L	0.040U
PCB-185	NC	ng/L	0.046C183

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 77
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
PCB-186	NC	ng/L	0.040U
PCB-187/182/159	NC	ng/L	0.095
PCB-188	NC	ng/L	0.040U
PCB-189	NC	ng/L	0.040U
PCB-19	NC	ng/L	0.1
PCB-190	NC	ng/L	0.0030Q,J
PCB-191	NC	ng/L	0.040U
PCB-192	NC	ng/L	0.040U
PCB-193	NC	ng/L	0.070B,C180
PCB-194	NC	ng/L	0.0084B,J
PCB-195	NC	ng/L	0.0038J
PCB-196/203	NC	ng/L	0.0059J
PCB-197	NC	ng/L	0.040U
PCB-198	NC	ng/L	0.017C,J
PCB-199	NC	ng/L	0.017C198,J
PCB-2	NC	ng/L	0.0061B,J
PCB-20	NC	ng/L	0.097B,C
PCB-200	NC	ng/L	0.0025J
PCB-201	NC	ng/L	0.0028J
PCB-202	NC	ng/L	0.0060Q,J
PCB-204	NC	ng/L	0.040U
PCB-205	NC	ng/L	0.040U
PCB-206	NC	ng/L	0.040U
PCB-207	NC	ng/L	0.040U
PCB-208	NC	ng/L	0.040U
PCB-22	NC	ng/L	0.039B,J
PCB-23	NC	ng/L	0.040U
PCB-24	NC	ng/L	0.0093J
PCB-25	NC	ng/L	0.0077J
PCB-26	NC	ng/L	0.019C,J
PCB-27	NC	ng/L	0.026J
PCB-29	NC	ng/L	0.019C26,J
PCB-3	NC	ng/L	0.0031Q,B,J
PCB-31	NC	ng/L	0.081B
PCB-32	NC	ng/L	0.098
PCB-33	NC	ng/L	0.031B,C21,J
PCB-34	NC	ng/L	0.0010Q,J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 77
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
PCB-35	NC	ng/L	0.040U
PCB-36	NC	ng/L	0.040U
PCB-37	NC	ng/L	0.0047Q,B,J
PCB-38	NC	ng/L	0.040U
PCB-39	NC	ng/L	0.040U
PCB-4	NC	ng/L	0.22B
PCB-40	NC	ng/L	0.074C
PCB-41	NC	ng/L	0.074C40
PCB-42	NC	ng/L	0.030J
PCB-43	NC	ng/L	0.0085C,J
PCB-44	NC	ng/L	0.21B,C
PCB-45	NC	ng/L	0.051B,C
PCB-46	NC	ng/L	0.014Q,J
PCB-47	NC	ng/L	0.21B,C44
PCB-48	NC	ng/L	0.028J
PCB-49	NC	ng/L	0.10C
PCB-5	NC	ng/L	0.0037Q,J
PCB-50	NC	ng/L	0.049C
PCB-51	NC	ng/L	0.051B,C45
PCB-53	NC	ng/L	0.049C50
PCB-54	NC	ng/L	0.040U
PCB-55	NC	ng/L	0.040U
PCB-56	NC	ng/L	0.014J
PCB-57	NC	ng/L	0.040U
PCB-58	NC	ng/L	0.040U
PCB-6	NC	ng/L	0.023Q,B,J
PCB-61	NC	ng/L	0.088B,C
PCB-62	NC	ng/L	0.0089Q,C59,J
PCB-63	NC	ng/L	0.040U
PCB-65	NC	ng/L	0.21B,C44
PCB-66	NC	ng/L	0.029B,J
PCB-67	NC	ng/L	0.040U
PCB-68	NC	ng/L	0.040U
PCB-69	NC	ng/L	0.10C49
PCB-7	NC	ng/L	0.0021Q,J
PCB-70	NC	ng/L	0.088B,C61
PCB-71	NC	ng/L	0.074C40

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 77
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
PCB-73	NC	ng/L	0.0085C43,J
PCB-74	NC	ng/L	0.088B,C61
PCB-76/66	NC	ng/L	0.088B,C61
PCB-77	NC	ng/L	0.040U
PCB-78	NC	ng/L	0.040U
PCB-79	NC	ng/L	0.0013Q,J
PCB-8	NC	ng/L	0.060B
PCB-80	NC	ng/L	0.040U
PCB-81	NC	ng/L	0.040U
PCB-82	NC	ng/L	0.024J
PCB-83	NC	ng/L	0.11C
PCB-84	NC	ng/L	0.16
PCB-85	NC	ng/L	0.025C,J
PCB-86	NC	ng/L	0.18C
PCB-87	NC	ng/L	0.18C86
PCB-88	NC	ng/L	0.057C
PCB-89	NC	ng/L	0.040U
PCB-9	NC	ng/L	0.013Q,J
PCB-90	NC	ng/L	0.51B,C
PCB-92	NC	ng/L	0.081
PCB-93	NC	ng/L	0.0062Q,C,J
PCB-94	NC	ng/L	0.040U
PCB-95	NC	ng/L	1.1B
PCB-96	NC	ng/L	0.0036Q,J
PCB-97	NC	ng/L	0.18C86
Total Di-CB	NC	ng/L	0.40EMPC
Total Hepta-CB	NC	ng/L	0.45EMPC
Total Hexa-CB	NC	ng/L	1.7EMPC
Total Mono-CB	NC	ng/L	0.050EMPC
Total Nona-CB	NC	ng/L	0.040U
Total Octa-CB	NC	ng/L	0.054EMPC,J
Total Penta-CB	NC	ng/L	2.6EMPC
Total Tetra-CB	NC	ng/L	1.4EMPC
Total Tri-CB	NC	ng/L	1.2EMPC

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 78
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Inorganic Compound Data

Parameter Name	NYS Class C Criteria	NYS Class C Criteria (Hardness Dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	2U
ANTIMONY	NC	NC	mg/L	0.1U
ARSENIC	0.15(S)	NC	mg/L	0.1U
BARIUM	NC	NC	mg/L	2U
BERYLLIUM	1.1(S)	NC	mg/L	0.04U
BORON	10(S)	NC	mg/L	2U
CADMIUM	NC	27.837	mg/L	0.05U
CALCIUM	NC	NC	mg/L	920J
CHROMIUM	NC	1102.02	mg/L	0.05U
COBALT	0.005(S)	NC	mg/L	0.5U
COPPER	NC	149.69	mg/L	0.25U
CYANIDE	0.0052(S)	NC	mg/L	[0.011]
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	0.00046R
IRON	0.3(S)	NC	mg/L	1U
LEAD	NC	98.716	mg/L	0.03U
MAGNESIUM	NC	NC	mg/L	50U
MANGANESE	NC	NC	mg/L	0.15U
MERCURY	0.00077(S)	NC	mg/L	0.0000071
NICKEL	NC	845.26	mg/L	0.4U
POTASSIUM	NC	NC	mg/L	50
SELENIUM	0.0046(S)	NC	mg/L	0.05U
SILVER	0.0001(S)	NC	mg/L	0.05U
SODIUM	NC	NC	mg/L	1100J
THALLIUM	0.008(S)	NC	mg/L	0.1U
TIN	NC	NC	mg/L	1U
VANADIUM	0.014(S)	NC	mg/L	0.5U
ZINC	NC	1360.84	mg/L	0.2U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using a surface water hardness of 2,700 mg/L.

Table 79
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
1,2,3,4,6,7,8-HPCDD	0.0000006(S)	ng/L	[0.00059EMPC,J]
1,2,3,4,6,7,8-HPCDF	0.0000006(S)	ng/L	[0.00033EMPC,J]
1,2,3,4,7,8,9-HPCDF	0.0000006(S)	ng/L	[0.00041EMPC,J]
1,2,3,4,7,8-HXCDD	0.0000006(S)	ng/L	0.05U
1,2,3,4,7,8-HXCDF	0.0000006(S)	ng/L	[0.00037EMPC,J]
1,2,3,6,7,8-HXCDD	0.0000006(S)	ng/L	0.05U
1,2,3,6,7,8-HXCDF	0.0000006(S)	ng/L	[0.00023EMPC,J]
1,2,3,7,8,9-HXCDD	0.0000006(S)	ng/L	[0.00044EMPC,J]
1,2,3,7,8,9-HXCDF	0.0000006(S)	ng/L	[0.00036EMPC,J]
1,2,3,7,8-PECDD	0.0000006(S)	ng/L	0.05U
1,2,3,7,8-PECDF	0.0000006(S)	ng/L	0.05U
2,3,4,6,7,8-HXCDF	0.0000006(S)	ng/L	[0.00027EMPC,J]
2,3,4,7,8-PECDF	0.0000006(S)	ng/L	[0.00037EMPC,J]
2,3,7,8-TCDD	0.0000031(S)	ng/L	0.01U
2,3,7,8-TCDF	0.0000006(S)	ng/L	[0.00033EMPC,J]
OCDD	0.0000006(S)	ng/L	[0.0021EMPC,J]
OCDF	0.0000006(S)	ng/L	[0.001EMPC,J]
TOTAL HPCDD	NC	ng/L	0.0013J,Q,B
TOTAL HPCDF	NC	ng/L	0.00074Q,B,J
TOTAL HXCDD	NC	ng/L	0.0012J,Q,B
TOTAL HXCDF	NC	ng/L	0.0016Q,J,B
TOTAL PECDD	NC	ng/L	0.001B,Q,J
TOTAL PECDF	NC	ng/L	0.0028Q,J,B
TOTAL TCDD	NC	ng/L	0.00041J,Q,B
TOTAL TETRA-FURANS	NC	ng/L	0.0044Q,J,B

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
EMPC = Estimate maximum possible concentration.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 80
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Other Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	0.41U
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	54J
ALKALINITY, TOTAL	NC	mg/L	150
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	24U
BROMIDE	NC	mg/L	7.5
CHEMICAL OXYGEN DEMAND	NC	mg/L	420J
CHLORIDE	NC	mg/L	4000J
HARDNESS (AS CACO3)	NC	mg/L	2700
NITROGEN, AMMONIA (AS N)	NC	mg/L	6.6J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	10
NITROGEN, NITRATE (AS N)	NC	mg/L	1U
NITROGEN, NITRITE	NC	mg/L	0.5U
SULFATE	NC	mg/L	47
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	5800
TOTAL ORGANIC CARBON	NC	mg/L	9.7
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.32J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blank.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 81
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Leachate
Method 8290 Dioxins/Furans Equivalence Summary Data

Parameter Name	TEF	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3115-01 SB915-CIWP-SP-33 03/18/2013 Regular sample
1,2,3,4,6,7,8-HPCDD	0.01	NC	ng/L	0.0000059
1,2,3,4,6,7,8-HPCDF	0.01	NC	ng/L	0.0000033
1,2,3,4,7,8,9-HPCDF	0.01	NC	ng/L	0.0000041
1,2,3,4,7,8-HXCDD	0.1	NC	ng/L	---
1,2,3,4,7,8-HXCDF	0.1	NC	ng/L	0.000037
1,2,3,6,7,8-HXCDD	0.1	NC	ng/L	---
1,2,3,6,7,8-HXCDF	0.1	NC	ng/L	0.000023
1,2,3,7,8,9-HXCDD	0.1	NC	ng/L	0.000044
1,2,3,7,8,9-HXCDF	0.1	NC	ng/L	0.000036
1,2,3,7,8-PECDD	1	NC	ng/L	---
1,2,3,7,8-PECDF	0.03	NC	ng/L	---
2,3,4,6,7,8-HXCDF	0.1	NC	ng/L	0.000027
2,3,4,7,8-PECDF	0.3	NC	ng/L	0.000111
2,3,7,8-TCDD	1	NC	ng/L	---
2,3,7,8-TCDF	0.1	NC	ng/L	0.000033
OCDD	0.0003	NC	ng/L	0.00000063
OCDF	0.0003	NC	ng/L	0.0000003
TOTAL TEQ	NC	0.0000006 (S)	ng/L	[0.00032523]

NOTES:
TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.
--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 82
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMOETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
2-BUTANONE	NC	µg/L	5.0U	5.0U	1.9J	5.0U	5.0U
2-HEXANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	NC	µg/L	3.4J	3.8J	16	3.5J	5.0U
ACETONITRILE	NC	µg/L	20U	20U	20UJ	20UJ	20UJ
ACROLEIN	NC	µg/L	20UJ	20UJ	20UJ	20UJ	20UJ
ACRYLONITRILE	NC	µg/L	20U	20U	20U	20U	20U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	10(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CARBON DISULFIDE	NC	µg/L	0.27J	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 82
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample
CHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
ETHYL CYANIDE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U
ETHYL METHACRYLATE	NC	µg/L	1.0UJ	1.0UJ	1.0U	1.0U	1.0U
ETHYLBENZENE	17(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
METHYLENE CHLORIDE	200(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
STYRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	1(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	100(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0UJ	1.0UJ	1.0U	1.0U	1.0U
TRICHLOROETHENE	40(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	65(G)	µg/L	3.0U	3.0U	3.0U	3.0U	3.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 82
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMOETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	0.19J
1,2-DICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	0.62J	0.66J
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
2-BUTANONE	NC	µg/L	2.6J	5.0U	5.0U	5.0U	5.0U
2-HEXANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	NC	µg/L	31J	5.0U	5.0U	5.0U	5.0U
ACETONITRILE	NC	µg/L	20U	20UJ	20UJ	20UJ	20UJ
ACROLEIN	NC	µg/L	20UJ	20UJ	20UJ	20UJ	20UJ
ACRYLONITRILE	NC	µg/L	20U	20U	20U	20U	20U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	10(S)	µg/L	0.59J	1.0U	1.0U	1.0U	1.0U
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CARBON DISULFIDE	NC	µg/L	0.63J	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.2	1.3
CHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 82
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample
CHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
ETHYL CYANIDE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U
ETHYL METHACRYLATE	NC	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U
ETHYLBENZENE	17(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
METHYLENE CHLORIDE	200(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
STYRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	1(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	100(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0UJ	1.0U	1.0U	1.0U	1.0U
TRICHLOROETHENE	40(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	65(G)	µg/L	3.0U	3.0U	3.0U	3.0U	3.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 82
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,1-TRICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1,2-TRICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROETHENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,3-TRICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DIBROMOETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,2-DICHLOROETHANE	NC	µg/L	0.25J	0.24J	1.0U	1.0U	1.0U
1,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROBENZENE	5(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
1,4-DICHLOROBENZENE	5(S)	µg/L	0.42J	0.47J	1.0U	1.0U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
2-BUTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
2-HEXANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U
ACETONE	NC	µg/L	5.0U	5.0U	5.0U	3.5J	3.1J
ACETONITRILE	NC	µg/L	20UJ	20UJ	20UJ	20U	20U
ACROLEIN	NC	µg/L	20UJ	20UJ	20UJ	20UJ	20UJ
ACRYLONITRILE	NC	µg/L	20U	20U	20U	20U	20U
ALLYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BENZENE	10(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMODICHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOFORM	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
BROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CARBON DISULFIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CARBON TETRACHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROBENZENE	5(S)	µg/L	0.73J	0.71J	1.0U	1.0U	1.0U
CHLOROETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROFORM	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 82
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
CHLOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,2-DICHLOROETHENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
CIS-1,3-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
Dibromochloromethane	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
DICHLORODIFLUOROMETHANE	NC	µg/L	1.0UJ	1.0UJ	1.0UJ	1.0UJ	1.0UJ
ETHYL CYANIDE	NC	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U
ETHYL METHACRYLATE	NC	µg/L	1.0U	1.0U	1.0U	1.0UJ	1.0UJ
ETHYLBENZENE	17(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
ISOBUTANOL	NC	µg/L	40R	40R	40R	40R	40R
METHYL METHACRYLATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
METHYLENE CHLORIDE	200(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
STYRENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TETRACHLOROETHENE	1(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TOLUENE	100(G)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,2-DICHLOROETHENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,3-DICHLOROPROPENE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U	1.0U	1.0U	1.0UJ	1.0UJ
TRICHLOROETHENE	40(S)	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
TRICHLOROFLUOROMETHANE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL ACETATE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
VINYL CHLORIDE	NC	µg/L	1.0U	1.0U	1.0U	1.0U	1.0U
XYLENES, TOTAL	65(G)	µg/L	3.0U	3.0U	3.0U	3.0U	3.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 82
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3086-05 / WB915-RET POND2-2 / 07/18/2012 / Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U
1,1,1-TRICHLOROETHANE	NC	µg/L	1.0U
1,1,2,2-TETRACHLOROETHANE	NC	µg/L	1.0U
1,1,2-TRICHLOROETHANE	NC	µg/L	1.0U
1,1-DICHLOROETHANE	NC	µg/L	1.0U
1,1-DICHLOROETHENE	NC	µg/L	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U
1,2,3-TRICHLOROPROPANE	NC	µg/L	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	NC	µg/L	1.0U
1,2-DIBROMOETHANE	NC	µg/L	1.0U
1,2-DICHLOROBENZENE	5(S)	µg/L	1.0U
1,2-DICHLOROETHANE	NC	µg/L	1.0U
1,2-DICHLOROPROPANE	NC	µg/L	1.0U
1,3-DICHLOROBENZENE	5(S)	µg/L	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U
1,4-DICHLOROBENZENE	5(S)	µg/L	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0U
2-BUTANONE	NC	µg/L	5.0U
2-HEXANONE	NC	µg/L	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U
ACETONE	NC	µg/L	2.8J
ACETONITRILE	NC	µg/L	20UJ
ACROLEIN	NC	µg/L	20UJ
ACRYLONITRILE	NC	µg/L	20U
ALLYL CHLORIDE	NC	µg/L	1.0U
BENZENE	10(S)	µg/L	1.0U
BROMOCHLOROMETHANE	NC	µg/L	1.0U
BROMODICHLOROMETHANE	NC	µg/L	1.0U
BROMOFORM	NC	µg/L	1.0U
BROMOMETHANE	NC	µg/L	1.0U
CARBON DISULFIDE	NC	µg/L	1.0U
CARBON TETRACHLORIDE	NC	µg/L	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U
CHLOROETHANE	NC	µg/L	1.0U
CHLOROFORM	NC	µg/L	1.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 82
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-05 WB915-RET POND2-2 07/18/2012 Regular sample
CHLOROMETHANE	NC	µg/L	1.0U
CHLOROPRENE	NC	µg/L	1.0U
CIS-1,2-DICHLOROETHENE	NC	µg/L	1.0U
CIS-1,3-DICHLOROPROPENE	NC	µg/L	1.0U
Dibromochloromethane	NC	µg/L	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U
DICHLORODIFLUOROMETHANE	NC	µg/L	1.0UJ
ETHYL CYANIDE	NC	µg/L	2.0U
ETHYL METHACRYLATE	NC	µg/L	1.0U
ETHYLBENZENE	17(G)	µg/L	1.0U
IODOMETHANE	NC	µg/L	1.0U
ISOBUTANOL	NC	µg/L	40R
METHYL METHACRYLATE	NC	µg/L	1.0U
METHYLENE CHLORIDE	200(S)	µg/L	1.0U
STYRENE	NC	µg/L	1.0U
TETRACHLOROETHENE	1(G)	µg/L	1.0U
TOLUENE	100(G)	µg/L	1.0U
TRANS-1,2-DICHLOROETHENE	NC	µg/L	1.0U
TRANS-1,3-DICHLOROPROPENE	NC	µg/L	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U
TRICHLOROETHENE	40(S)	µg/L	1.0U
TRICHLOROFLUOROMETHANE	NC	µg/L	1.0U
VINYL ACETATE	NC	µg/L	1.0U
VINYL CHLORIDE	NC	µg/L	1.0U
XYLENES, TOTAL	65(G)	µg/L	3.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 83
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.9U	4.8U	4.8U	4.8U	4.8U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
1,3,5-TRINITROBENZENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
1,3-DINITROBENZENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
1,4-NAPHTHOQUINONE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	5(S)	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
2,4-DINITROPHENOL	400(S)	µg/L	4.9UJ	4.8UJ	4.8UJ	4.8UJ	4.8UJ
2,4-DINITROTOLUENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
2,6-DICHLOROPHENOL	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
2,6-DINITROTOLUENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
2-CHLORONAPHTHALENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
2-METHYLNAPHTHALENE	4.7(G)	µg/L	0.013J	0.19U	0.19U	0.19U	0.19U
2-METHYLPHENOL	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
2-NAPHTHYLAMINE	NC	µg/L	0.97UJ	0.96R	0.95UJ	0.96UJ	0.95UJ
2-NITROANILINE	NC	µg/L	4.9U	4.8U	4.8U	4.8U	4.8U
2-NITROPHENOL	NC	µg/L	0.97U	0.96UJ	0.95U	0.96U	0.95U
3&4-METHYLPHENOL	NC	µg/L	0.10J	0.96U	0.95U	0.96U	0.95U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.97U	0.96R	0.95U	0.96U	0.95U
3-METHYLCHOLANTHRENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
3-NITROANILINE	NC	µg/L	4.9U	4.8U	4.8U	4.8U	4.8U
4,6-DINITRO-2-METHYLPHENOL	NC	µg/L	4.9U	4.8U	4.8U	4.8U	4.8U
4-AMINOBIPHENYL	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
4-BROMOPHENYL PHENYL ETHER	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
4-CHLORO-3-METHYLPHENOL	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
4-CHLOROANILINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
4-CHLOROPHENYL PHENYL ETHER	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
4-NITROANILINE	NC	µg/L	4.9U	4.8U	4.8U	4.8U	4.8U
4-NITROPHENOL	NC	µg/L	4.9U	4.8U	4.8U	4.8U	4.8U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 83
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.97U	0.96UJ	0.95U	0.96U	0.95U
ACENAPHTHENE	5.3(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
ANTHRACENE	3.8(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
CHLOROBENZILATE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
BENZO(A)ANTHRACENE	0.03(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(A)PYRENE	0.0012(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(K)FLUORANTHENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
BIS(2-CHLOROETHOXY)METHANE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
BIS(2-CHLOROETHYL)ETHER	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	0.6(S)	µg/L	1.9U	[4.7]	[2.5]	1.9U	[8.3]
BUTYLBENZYL PHTHALATE	NC	µg/L	0.27J	0.26J	0.95U	0.96U	0.95U
DIALLATE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
CHRYSENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
DI-N-BUTYL PHTHALATE	NC	µg/L	0.14J	0.96U	0.95U	0.96U	0.95U
DI-N-OCTYL PHTHALATE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
DIETHYL PHTHALATE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
DIMETHYL PHTHALATE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
FLUORANTHENE	NC	µg/L	0.018J	0.022J	0.19U	0.017J	0.023J
FLUORENE	0.54(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	0.45(S)	µg/L	0.97R	0.96R	0.95R	0.96R	0.95R
HEXACHLOROETHANE	0.6(S)	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
HEXACHLOROPROPENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
INDENO(1,2,3-CD)PYRENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
ISODRIN	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
ISOPHORONE	NC	µg/L	0.97U	0.96UJ	0.95U	0.96U	0.95U
ISOSAFROLE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
KEPONE	NC	µg/L	3.9U	3.8U	3.8U	3.8U	3.8U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 83
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample
METHAPYRILENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
METHYL METHANESULFONATE	NC	µg/L	0.97UJ	0.96UJ	0.95UJ	0.96UJ	0.95UJ
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
N-NITROSODIETHYLAMINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
N-NITROSODIPHENYLAMINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	3.1
N-NITROSOPIPERIDINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
N-NITROSOPYRROLIDINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
NAPHTHALENE	13(G)	µg/L	0.054J	0.19U	0.19U	0.19U	0.19U
NITROBENZENE	NC	µg/L	1.9U	1.9UJ	1.9U	1.9U	1.9U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
O-TOLUIDINE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
P-PHENYLENEDIAMINE	NC	µg/L	19UJ	19UJ	19UJ	19UJ	19UJ
PENTACHLOROBENZENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
PENTACHLORONITROBENZENE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
PENTACHLOROPHENOL	1(S)	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
PHENACETIN	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
PHENANTHRENE	5(G)	µg/L	0.070J	0.048J	0.046J	0.052J	0.055J
PHENOL	5(S)	µg/L	0.21	0.19U	0.19U	0.19U	0.19U
PRONAMIDE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U
PYRENE	4.6(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.019J
SAFROLE	NC	µg/L	0.97U	0.96U	0.95U	0.96U	0.95U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 83
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.8U	4.9U	5.0U	4.9U	4.8U	4.8U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
1,3,5-TRINITROBENZENE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
1,3-DINITROBENZENE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
1,4-NAPHTHOQUINONE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	5(S)	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
2,4-DINITROPHENOL	400(S)	µg/L	4.8UJ	4.9U	5.0U	4.9U	4.8U	4.8U
2,4-DINITROTOLUENE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
2,6-DICHLOROPHENOL	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
2,6-DINITROTOLUENE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.96U	0.97UJ	0.99UJ	0.97UJ	0.96UJ	0.96UJ
2-CHLORONAPHTHALENE	NC	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
2-METHYLNAPHTHALENE	4.7(G)	µg/L	0.19U	0.19U	0.20UJ	0.19U	0.19U	0.19U
2-METHYLPHENOL	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
2-NAPHTHYLAMINE	NC	µg/L	0.96UJ	0.97UJ	0.99U	0.97UJ	0.96UJ	0.96UJ
2-NITROANILINE	NC	µg/L	4.8U	4.9U	5.0U	4.9U	4.8U	4.8U
2-NITROPHENOL	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
3&4-METHYLPHENOL	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
3-METHYLCHOLANTHRENE	NC	µg/L	0.96U	0.97UJ	0.99UJ	0.97UJ	0.96UJ	0.96UJ
3-NITROANILINE	NC	µg/L	4.8U	4.9U	5.0U	4.9U	4.8U	4.8U
4,6-DINITRO-2-METHYLPHENOL	NC	µg/L	4.8U	4.9U	5.0U	4.9U	4.8U	4.8U
4-AMINOBIPHENYL	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
4-BROMOPHENYL PHENYL ETHER	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
4-CHLORO-3-METHYLPHENOL	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
4-CHLOROANILINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
4-CHLOROPHENYL PHENYL ETHER	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
4-NITROANILINE	NC	µg/L	4.8U	4.9U	5.0U	4.9U	4.8U	4.8U
4-NITROPHENOL	NC	µg/L	4.8U	4.9U	5.0U	4.9U	4.8U	4.8U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 83
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.96U	0.97U	0.11J	0.22J	0.96U	0.96U
ACENAPHTHENE	5.3(G)	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.68J	0.97U	0.99U	0.97U	0.96U	0.96U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
ANTHRACENE	3.8(G)	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
CHLOROBENZILATE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
BENZO(A)ANTHRACENE	0.03(G)	µg/L	0.19U	[0.030J]	[0.19J]	[0.61]	0.19U	0.19U
BENZO(A)PYRENE	0.0012(G)	µg/L	0.19U	0.19U	[0.15J]	[0.49]	0.19U	0.19U
BENZO(B)FLUORANTHENE	NC	µg/L	0.19U	0.025J	0.19J	0.65	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19U	0.21	0.61	0.19U	0.19U
BENZO(K)FLUORANTHENE	NC	µg/L	0.19U	0.19U	0.22	0.74	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
BIS(2-CHLOROETHOXY)METHANE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
BIS(2-CHLOROETHYL)ETHER	NC	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	0.6(S)	µg/L	[1.2J]	1.9U	9.8U	1.9U	8.2U	[6.6U]
BUTYLBENZYL PHTHALATE	NC	µg/L	0.96U	0.17J	0.99U	0.24J	0.96U	0.21J
DIALLATE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
CHRYSENE	NC	µg/L	0.19U	0.036J	0.23	0.66	0.19U	0.19U
DI-N-BUTYL PHTHALATE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
DI-N-OCTYL PHTHALATE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19U	0.18J	0.6	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
DIETHYL PHTHALATE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
DIMETHYL PHTHALATE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
FLUORANTHENE	NC	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
FLUORENE	0.54(G)	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	1(S)	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	0.45(S)	µg/L	0.96R	0.97R	0.99R	0.97R	0.96R	0.96R
HEXACHLOROETHANE	0.6(S)	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
HEXACHLOROPROPENE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
INDENO(1,2,3-CD)PYRENE	NC	µg/L	0.19U	0.19U	0.2	0.65	0.19U	0.19U
ISODRIN	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
ISOPHORONE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
ISOSAFROLE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
KEPONE	NC	µg/L	3.8U	3.9UJ	4.0UJ	3.9UJ	3.8UJ	3.8UJ
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 83
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample
METHAPYRILENE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
METHYL METHANESULFONATE	NC	µg/L	0.96UJ	0.97UJ	0.99UJ	0.97UJ	0.96UJ	0.96UJ
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
N-NITROSODIETHYLAMINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
N-NITROSODIPHENYLAMINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
N-NITROSOPIPERIDINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
N-NITROSOPYRROLIDINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
NAPHTHALENE	13(G)	µg/L	0.16J	0.19U	0.20U	0.19U	0.19U	0.19U
NITROBENZENE	NC	µg/L	1.9U	1.9U	2.0U	1.9U	1.9U	1.9U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
O-TOLUIDINE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
P-PHENYLENEDIAMINE	NC	µg/L	19UJ	19U	20U	19U	19U	19U
PENTACHLOROBENZENE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
PENTACHLORONITROBENZENE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
PENTACHLOROPHENOL	1(S)	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
PHENACETIN	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
PHENANTHRENE	5(G)	µg/L	0.10J	0.19U	0.20U	0.19U	0.19U	0.19U
PHENOL	5(S)	µg/L	0.19U	0.19U	0.20U	0.19U	0.19U	0.19U
PRONAMIDE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U
PYRENE	4.6(G)	µg/L	0.19U	0.028J	0.034J	0.11J	0.19U	0.19U
SAFROLE	NC	µg/L	0.96U	0.97U	0.99U	0.97U	0.96U	0.96U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 83
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-05 WB915-RET POND2-2 07/18/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.8U	4.9U	4.8U	4.9U	4.8U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
1,3,5-TRINITROBENZENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
1,3-DINITROBENZENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
1,4-NAPHTHOQUINONE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0.00UJ	0.00UJ	0.00UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
2,4-DIMETHYLPHENOL	5(S)	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
2,4-DINITROPHENOL	400(S)	µg/L	4.8U	4.9U	4.8UJ	4.9UJ	4.8UJ
2,4-DINITROTOLUENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
2,6-DICHLOROPHENOL	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
2,6-DINITROTOLUENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.96UJ	0.97UJ	0.95U	0.97U	0.95U
2-CHLORONAPHTHALENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
2-METHYLNAPHTHALENE	4.7(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
2-METHYLPHENOL	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
2-NAPHTHYLAMINE	NC	µg/L	0.96UJ	0.97UJ	0.95UJ	0.97UJ	0.95UJ
2-NITROANILINE	NC	µg/L	4.8U	4.9U	4.8U	4.9U	4.8U
2-NITROPHENOL	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
3&4-METHYLPHENOL	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
3-METHYLCHOLANTHRENE	NC	µg/L	0.96UJ	0.97UJ	0.95U	0.97U	0.95U
3-NITROANILINE	NC	µg/L	4.8U	4.9U	4.8U	4.9U	4.8U
4,6-DINITRO-2-METHYLPHENOL	NC	µg/L	4.8U	4.9U	4.8U	4.9U	4.8U
4-AMINOBIPHENYL	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
4-BROMOPHENYL PHENYL ETHER	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
4-CHLORO-3-METHYLPHENOL	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
4-CHLOROANILINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
4-CHLOROPHENYL PHENYL ETHER	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
4-NITROANILINE	NC	µg/L	4.8U	4.9U	4.8U	4.9U	4.8U
4-NITROPHENOL	NC	µg/L	4.8U	4.9U	4.8U	4.9U	4.8U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 83
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-05 WB915-RET POND2-2 07/18/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
ACENAPHTHENE	5.3(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.96U	0.97U	0.95U	0.11J	0.95U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
ANTHRACENE	3.8(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
CHLOROBENZILATE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
BENZO(A)ANTHRACENE	0.03(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(A)PYRENE	0.0012(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(B)FLUORANTHENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BENZO(K)FLUORANTHENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
BIS(2-CHLOROETHOXY)METHANE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
BIS(2-CHLOROETHYL)ETHER	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	0.6(S)	µg/L	5.7U	6.6U	[1.6J]	[1.2J]	1.9U
BUTYLBENZYL PHTHALATE	NC	µg/L	0.96U	0.97U	0.15J	0.97U	0.95U
DIALLATE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
CHRYSENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
DI-N-BUTYL PHTHALATE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
DI-N-OCTYL PHTHALATE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
DIETHYL PHTHALATE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
DIMETHYL PHTHALATE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
FLUORANTHENE	NC	µg/L	0.19U	0.19U	0.018J	0.017J	0.19U
FLUORENE	0.54(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROBUTADIENE	1(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	0.45(S)	µg/L	0.96R	0.97R	0.95R	0.97R	0.95R
HEXACHLOROETHANE	0.6(S)	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
HEXACHLOROPROPENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
INDENO(1,2,3-CD)PYRENE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
ISODRIN	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
ISOPHORONE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
ISOSAFROLE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
KEPONE	NC	µg/L	3.8UJ	3.9UJ	3.8U	3.9U	3.8U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 83
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-05 WB915-RET POND2-2 07/18/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
METHAPYRILENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
METHYL METHANESULFONATE	NC	µg/L	0.96UJ	0.97UJ	0.95UJ	0.97UJ	0.95UJ
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
N-NITROSODIETHYLAMINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
N-NITROSODIPHENYLAMINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.96U	0.97U	0.95U	0.41J	0.95U
N-NITROSOPIPERIDINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
N-NITROSOPYRROLIDINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
NAPHTHALENE	13(G)	µg/L	0.19U	0.19U	0.19U	0.045J	0.19U
NITROBENZENE	NC	µg/L	1.9U	1.9U	1.9U	1.9U	1.9U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
O-TOLUIDINE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
P-PHENYLENEDIAMINE	NC	µg/L	19U	19U	19UJ	19UJ	19UJ
PENTACHLOROBENZENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
PENTACHLORONITROBENZENE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
PENTACHLOROPHENOL	1(S)	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
PHENACETIN	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
PHENANTHRENE	5(G)	µg/L	0.19U	0.19U	0.19U	0.046J	0.19U
PHENOL	5(S)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
PRONAMIDE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U
PYRENE	4.6(G)	µg/L	0.19U	0.19U	0.19U	0.19U	0.19U
SAFROLE	NC	µg/L	0.96U	0.97U	0.95U	0.97U	0.95U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 84
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (PISCES Samples)
Method 8081 Pesticide Data

Parameter Name	Field Sample ID / Location / Sample Date / Sample Purpose	Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample
4,4'-DDD		µg/L	0.31JN	1.5JN	2.9J	0.20JN	0.88JN	0.13UJ	1.1JN
4,4'-DDE		µg/L	0.13UJ	2.1JN	1.1JN	2.8JN	0.13UJ	0.13UJ	10J
4,4'-DDT		µg/L	2.9JN	5.0J	0.13UJ	0.30JN	1.9JN	2.7J	1.5JN
ALDRIN		µg/L	1.0JN	0.26JN	0.78JN	0.25JN	0.13UJ	0.13UJ	0.13UJ
ALPHA-BHC		µg/L	0.16JN	0.13UJ	0.21JN	0.13UJ	0.13UJ	0.13UJ	0.13UJ
BETA-BHC		µg/L	1.2JN	0.13UJ	2.4JN	1.8JN	0.13UJ	0.13UJ	0.13UJ
CHLORDANE		µg/L	1.3UJ	1.3UJ	1.3UJ	1.3UJ	1.3UJ	1.3UJ	1.3UJ
DELTA-BHC		µg/L	0.70JN	0.21JN	1.6J	2.6J	0.13UJ	0.13UJ	0.13UJ
DIELDRIN		µg/L	0.13UJ	0.51JN	2.1J	0.19JN	0.13UJ	0.27JN	0.13UJ
ENDOSULFAN I		µg/L	0.14JN	0.13UJ	0.31JN	0.13UJ	0.13UJ	0.13UJ	0.13UJ
ENDOSULFAN II		µg/L	0.13UJ	0.26JN	0.22JN	0.68JN	0.26J	0.20JN	0.15JN
ENDOSULFAN SULFATE		µg/L	0.13UJ	0.81JN	1.4J	0.13JN	0.13UJ	0.80J	1.2J
ENDRIN		µg/L	0.21JN	0.13UJ	0.13UJ	0.63JN	0.13UJ	0.13UJ	0.13UJ
ENDRIN ALDEHYDE		µg/L	1.1JN	0.75JN	4.6JN	4.6JN	1.4JN	0.78JN	0.61JN
GAMMA-BHC (LINDANE)		µg/L	0.13UJ	0.13UJ	0.13UJ	0.13UJ	0.13UJ	0.13UJ	0.13UJ
HEPTACHLOR		µg/L	0.40JN	0.60J	0.13UJ	0.25JN	0.37JN	0.27JN	1.7JN
HEPTACHLOR EPOXIDE		µg/L	1.3J	0.78J	2.6J	1.4JN	0.20J	0.13UJ	0.16J
HEXACHLOROBENZENE		µg/L	0.13UJ	0.13UJ	0.13UJ	0.13UJ	0.13UJ	0.13UJ	0.13UJ
METHOXYCHLOR		µg/L	6.7JN	5.0JN	0.25UJ	0.52JN	2.9JN	2.8JN	8.2J
TOXAPHENE		µg/L	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL;
U = Analyte not detected; R = Rejected value; N - Presumptive evidence of material.

Table 84
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (PISCES Samples)
Method 8081 Pesticide Data

Parameter Name	Field Sample ID / Location / Sample Date / Sample Purpose	Units	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-05 WB915-RET POND2-2 07/18/2012 Regular sample
4,4'-DDD		µg/L	0.13UJ	0.13UJ	0.13UJ	0.13UJ
4,4'-DDE		µg/L	6.5JN	9.0JN	5.8JN	2.4JN
4,4'-DDT		µg/L	3.4J	2.9JN	2.1JN	2.0JN
ALDRIN		µg/L	0.18JN	0.13UJ	0.13UJ	0.35J
ALPHA-BHC		µg/L	0.13UJ	0.13UJ	0.13UJ	0.13UJ
BETA-BHC		µg/L	0.13UJ	0.13UJ	0.19J	0.13UJ
CHLORDANE		µg/L	1.3UJ	1.3UJ	1.3UJ	1.3UJ
DELTA-BHC		µg/L	0.13UJ	0.13UJ	0.13UJ	0.13UJ
DIELDRIN		µg/L	0.23JN	0.13UJ	0.13UJ	0.86J
ENDOSULFAN I		µg/L	0.13UJ	0.13UJ	0.13UJ	0.13UJ
ENDOSULFAN II		µg/L	0.13UJ	0.42J	0.13UJ	0.13UJ
ENDOSULFAN SULFATE		µg/L	0.37JN	1.3J	0.88JN	0.13JN
ENDRIN		µg/L	0.13UJ	0.13UJ	0.13UJ	0.13UJ
ENDRIN ALDEHYDE		µg/L	0.78JN	0.56JN	0.49JN	0.22JN
GAMMA-BHC (LINDANE)		µg/L	0.13UJ	0.13UJ	0.13UJ	0.13UJ
HEPTACHLOR		µg/L	1.2JN	0.58JN	0.99JN	0.29JN
HEPTACHLOR EPOXIDE		µg/L	0.32J	0.93J	0.099JN	0.40J
HEXACHLOROBENZENE		µg/L	0.13UJ	0.13UJ	0.13UJ	0.13UJ
METHOXYCHLOR		µg/L	2.3JN	17J	7.0J	3.8J
TOXAPHENE		µg/L	10UJ	10UJ	10UJ	10UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL;
U = Analyte not detected; R = Rejected value; N - Presumptive evidence of material.

Table 85
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (Water Samples)
Method 8081 Pesticide Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
4,4'-DDD	0.00008(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
4,4'-DDE	0.000007(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
4,4'-DDT	0.00001(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
ALDRIN	0.001(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
ALPHA-BHC	0.002(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
BETA-BHC	0.007(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
CHLORDANE	0.00002(S)	µg/L	0.060UJ	0.060U	0.060UJ	0.012U	0.060U
DELTA-BHC	0.008(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
DIELDRIN	0.056(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
ENDOSULFAN I	0.009(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
ENDOSULFAN II	0.009(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
ENDOSULFAN SULFATE	NC	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
ENDRIN	0.036(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
ENDRIN ALDEHYDE	NC	µg/L	0.0062R	0.0062U	0.0062UJ	0.0012U	0.0062U
GAMMA-BHC (LINDANE)	NC	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
HEPTACHLOR	0.0002(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
HEPTACHLOR EPOXIDE	0.0003(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
HEXACHLOROBENZENE	0.00003(S)	µg/L	0.0062UJ	0.0062U	0.0062UJ	0.0012U	0.0062U
METHOXYCHLOR	0.03(S)	µg/L	0.012UJ	0.012U	0.012UJ	0.0024U	0.012U
TOXAPHENE	0.000006(S)	µg/L	0.48UJ	0.48U	0.48UJ	0.095U	0.48U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 86
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8141 Pesticide Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample
DISULFOTON	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.94U
ETHYL PARATHION	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.94U
FAMPHUR	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.94U
Methyl parathion	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.94U
PHORATE	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.94U
THIONAZIN	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.94U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 86
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8141 Pesticide Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample
DISULFOTON	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U
ETHYL PARATHION	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U
FAMPHUR	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U
Methyl parathion	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U
PHORATE	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U
THIONAZIN	NC	µg/L	0.95U	0.95U	0.95U	0.95U	0.95U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 86
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8141 Pesticide Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
DISULFOTON	NC	µg/L	0.95U	0.94U	0.95U	0.95U	0.95U
ETHYL PARATHION	NC	µg/L	0.95U	0.94U	0.95U	0.95U	0.95U
FAMPHUR	NC	µg/L	0.95U	0.94U	0.95U	0.95U	0.95U
Methyl parathion	NC	µg/L	0.95U	0.94U	0.95U	0.95U	0.95U
PHORATE	NC	µg/L	0.95U	0.94U	0.95U	0.95U	0.95U
THIONAZIN	NC	µg/L	0.95U	0.94U	0.95U	0.95U	0.95U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 86
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8141 Pesticide Data

		Field Sample ID	SB915-3086-05
		Location	WB915-RET POND2-2
		Sample Date	07/18/2012
	NYS Class C	Sample Purpose	Regular sample
Parameter Name	Criteria	Units	
DISULFOTON	NC	µg/L	0.94U
ETHYL PARATHION	NC	µg/L	0.94U
FAMPHUR	NC	µg/L	0.94U
Methyl parathion	NC	µg/L	0.94U
PHORATE	NC	µg/L	0.94U
THIONAZIN	NC	µg/L	0.94U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 87
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8151 Herbicide Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample
2,4,5-T	NC	µg/L	0.95U	0.95UJ	0.94U	0.95U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.95U	0.95U	0.94U	0.95U	0.95U
2,4-D	NC	µg/L	3.8U	3.8UJ	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.86U	0.86U	0.85U	0.86U	0.86U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 87
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8151 Herbicide Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample
2,4,5-T	NC	µg/L	0.95U	0.96U	0.94U	0.95U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.95U	0.96U	0.94U	0.95U	0.95U
2,4-D	NC	µg/L	3.8U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.86U	0.87UJ	0.85U	0.86U	0.86U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 87
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8151 Herbicide Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
2,4,5-T	NC	µg/L	0.94U	0.94U	0.95U	0.95U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.94U	0.94U	0.95U	0.95U	0.95U
2,4-D	NC	µg/L	3.8U	3.8U	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.85U	0.85U	0.86UJ	0.86U	0.86U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 87
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8151 Herbicide Data

		Field Sample ID	SB915-3086-05
		Location	WB915-RET POND2-2
		Sample Date	07/18/2012
	NYS Class C	Sample Purpose	Regular sample
Parameter Name	Criteria	Units	
2,4,5-T	NC	µg/L	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.95U
2,4-D	NC	µg/L	3.8U
DINOSEB	NC	µg/L	0.86U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 88
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (PICES Samples)
Method 1668 PCB Congener and Homolog Data

	Field Sample ID	SB915-3086-09
	Location	WB915-INTERBED 2
	Sample Date	07/18/2012
	Sample Purpose	Regular sample
Parameter Name	Units	
TOTAL PCBs	ng/L	1.2184
10-DiCB	ng/L	0.006QJ
109-PeCB	ng/L	0.021QBC86J
112-PeCB	ng/L	0.038U
142-HxCB	ng/L	0.038U
143-HxCB	ng/L	0.038U
160-HxCB	ng/L	0.0093QBC129J
161-HxCB	ng/L	0.038U
162-HxCB	ng/L	0.038U
164-HxCB	ng/L	0.038U
165-HxCB	ng/L	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	ng/L	0.011J
203-OcCB	ng/L	0.038U
21-TrCB C33	pg/L	5.7QBCJ
59-TeCB C62/75	ng/L	0.038U
64-TeCB	ng/L	0.018QJ
72-TeCB	ng/L	0.038U
98-PeCB C102	ng/L	0.038U
PCB 101	ng/L	0.019QBC90J
PCB 102 (BZ)	ng/L	0.038U
PCB 115 (BZ)	ng/L	0.022BC110J
PCB 116 (BZ)	ng/L	0.0067QC85J
PCB 117 (BZ)	ng/L	0.0067QC85J
PCB 118	ng/L	0.016BJ
PCB 125 (BZ)	ng/L	0.021QBC86J
PCB 13 (BZ)	ng/L	0.0098QC12J
PCB 138	ng/L	0.0093QBC129J
PCB 153	ng/L	0.0092CJ
PCB 163 (BZ)	ng/L	0.0093QBC129J
PCB 209	ng/L	0.038U
PCB 28	ng/L	0.046BC20
PCB 30	ng/L	0.023BC18J
PCB 52	ng/L	0.041B
PCB 75 (BZ)	ng/L	0.038U
PCB 91 (BZ)	ng/L	0.038U
PCB-1	ng/L	0.038U
PCB-100	ng/L	0.038U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 88
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (PICES Samples)
Method 1668 PCB Congener and Homolog Data

	Field Sample ID	SB915-3086-09
	Location	WB915-INTERBED 2
	Sample Date	07/18/2012
	Sample Purpose	Regular sample
Parameter Name	Units	
PCB-103	ng/L	0.038U
PCB-104	ng/L	0.038U
PCB-105	ng/L	0.0049QJ
PCB-106/118	ng/L	0.038U
PCB-107/109	ng/L	0.038U
PCB-108/112	ng/L	0.038U
PCB-11	ng/L	0.021QBJ
PCB-110	ng/L	0.022BCJ
PCB-111/115	ng/L	0.038U
PCB-113	ng/L	0.019QBC90J
PCB-114	ng/L	0.038U
PCB-119	ng/L	0.021QBC86J
PCB-12/13	ng/L	0.0098QCJ
PCB-120	ng/L	0.038U
PCB-121	ng/L	0.038U
PCB-122	ng/L	0.038U
PCB-123	ng/L	0.038U
PCB-124	ng/L	0.038U
PCB-126	ng/L	0.038U
PCB-127	ng/L	0.038U
PCB-128/162	ng/L	0.038U
PCB-129	ng/L	0.0093QBCJ
PCB-130	ng/L	0.038U
PCB-131	ng/L	0.038U
PCB-132/161	ng/L	0.038U
PCB-133/142	ng/L	0.038U
PCB-134/143	ng/L	0.038U
PCB-135	ng/L	0.038U
PCB-136	ng/L	0.038U
PCB-137	ng/L	0.038U
PCB-139/149	ng/L	0.038U
PCB-14	ng/L	0.038U
PCB-140	ng/L	0.038U
PCB-141	ng/L	0.038U
PCB-144	ng/L	0.038U
PCB-145	ng/L	0.038U
PCB-146/165	ng/L	0.038U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 88
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (PICES Samples)
Method 1668 PCB Congener and Homolog Data

	Field Sample ID	SB915-3086-09
	Location	WB915-INTERBED 2
	Sample Date	07/18/2012
	Sample Purpose	Regular sample
Parameter Name	Units	
PCB-147	ng/L	0.0086QCJ
PCB-148	ng/L	0.038U
PCB-149	ng/L	0.0086QC147J
PCB-15	ng/L	0.014QBJ
PCB-150	ng/L	0.038U
PCB-151	ng/L	0.038U
PCB-152	ng/L	0.038U
PCB-153	ng/L	0.038U
PCB-154	ng/L	0.038U
PCB-155	ng/L	0.038U
PCB-156	ng/L	0.038U
PCB-157	ng/L	0.038U
PCB-158/160	ng/L	0.038U
PCB-159	ng/L	0.038U
PCB-16/32	ng/L	0.038U
PCB-166	ng/L	0.038U
PCB-167	ng/L	0.038U
PCB-168	ng/L	0.0092C153J
PCB-169	ng/L	0.038U
PCB-17	ng/L	0.008QJ
PCB-170	ng/L	0.038U
PCB-171	ng/L	0.038U
PCB-172	ng/L	0.038U
PCB-173	ng/L	0.038U
PCB-174	ng/L	0.038U
PCB-175	ng/L	0.038U
PCB-176	ng/L	0.038U
PCB-177	ng/L	0.038U
PCB-178	ng/L	0.038U
PCB-179	ng/L	0.038U
PCB-18	ng/L	0.023BCJ
PCB-180	ng/L	0.038U
PCB-181	ng/L	0.038U
PCB-182/187	ng/L	0.038U
PCB-183	ng/L	0.038U
PCB-184	ng/L	0.038U
PCB-185	ng/L	0.038U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 88
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (PICES Samples)
Method 1668 PCB Congener and Homolog Data

	Field Sample ID	SB915-3086-09
	Location	WB915-INTERBED 2
	Sample Date	07/18/2012
	Sample Purpose	Regular sample
Parameter Name	Units	
PCB-186	ng/L	0.038U
PCB-188	ng/L	0.038U
PCB-189	ng/L	0.038U
PCB-19	ng/L	0.038U
PCB-190	ng/L	0.038U
PCB-191	ng/L	0.038U
PCB-192	ng/L	0.038U
PCB-193	ng/L	0.038U
PCB-194	ng/L	0.038U
PCB-195	ng/L	0.038U
PCB-196/203	ng/L	0.038U
PCB-197	ng/L	0.038U
PCB-198	ng/L	0.038U
PCB-199	ng/L	0.038U
PCB-2	ng/L	0.038U
PCB-20/21/33	ng/L	0.046BC
PCB-200	ng/L	0.038U
PCB-201	ng/L	0.038U
PCB-202	ng/L	0.038U
PCB-204	ng/L	0.038U
PCB-205	ng/L	0.038U
PCB-206	ng/L	0.038U
PCB-207	ng/L	0.038U
PCB-208	ng/L	0.038U
PCB-22	ng/L	0.019QJ
PCB-23	ng/L	0.038U
PCB-24/27	ng/L	0.038U
PCB-25	ng/L	0.038U
PCB-26	ng/L	0.038U
PCB-27	ng/L	0.038U
PCB-29	ng/L	0.038U
PCB-3	ng/L	0.0027QBJ
PCB-31	ng/L	0.02QJ
PCB-32	ng/L	0.013J
PCB-33	ng/L	0.0057QBC21J
PCB-34	ng/L	0.038U
PCB-35	ng/L	0.038U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 88
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (PICES Samples)
Method 1668 PCB Congener and Homolog Data

	Field Sample ID	SB915-3086-09
	Location	WB915-INTERBED 2
	Sample Date	07/18/2012
	Sample Purpose	Regular sample
Parameter Name	Units	
PCB-36	ng/L	0.038U
PCB-37	ng/L	0.01QBJ
PCB-38	ng/L	0.038U
PCB-39	ng/L	0.038U
PCB-4/10	ng/L	0.057U
PCB-40	ng/L	0.012QCJ
PCB-41/64/71/72	ng/L	0.012QC40J
PCB-42/59	ng/L	0.038U
PCB-43/49	ng/L	0.038U
PCB-44	ng/L	0.041BC
PCB-45	ng/L	0.005CJ
PCB-46	ng/L	0.038U
PCB-47	ng/L	0.041BC44
PCB-48/75	ng/L	0.038U
PCB-49	ng/L	0.023CJ
PCB-5	ng/L	0.038U
PCB-50	ng/L	0.0046CJ
PCB-51	ng/L	0.0050C45J
PCB-53	ng/L	0.0046C50J
PCB-54	ng/L	0.038U
PCB-55	ng/L	0.038U
PCB-56/60	ng/L	0.011QJ
PCB-57	ng/L	0.038U
PCB-58	ng/L	0.038U
PCB-6	ng/L	0.0073QJ
PCB-61/70	ng/L	0.05BC
PCB-62	ng/L	0.038U
PCB-63	ng/L	0.038U
PCB-65	ng/L	0.041BC44
PCB-66	ng/L	0.027QBJ
PCB-67	ng/L	0.038U
PCB-68	ng/L	0.038U
PCB-69	ng/L	0.023C49J
PCB-7/9	ng/L	0.02QBJ
PCB-70	ng/L	0.050BC61
PCB-71	ng/L	0.012QC40J
PCB-73	ng/L	0.038U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 88
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (PICES Samples)
Method 1668 PCB Congener and Homolog Data

	Field Sample ID	SB915-3086-09
	Location	WB915-INTERBED 2
	Sample Date	07/18/2012
	Sample Purpose	Regular sample
Parameter Name	Units	
PCB-74	ng/L	0.050BC61
PCB-76/66	ng/L	0.050BC61
PCB-77	ng/L	0.038U
PCB-78	ng/L	0.038U
PCB-79	ng/L	0.038U
PCB-8	ng/L	0.018QBJ
PCB-80	ng/L	0.038U
PCB-81	ng/L	0.038U
PCB-82	ng/L	0.038U
PCB-83	ng/L	0.038U
PCB-84/92	ng/L	0.038U
PCB-85/116	ng/L	0.0067QCJ
PCB-86	ng/L	0.021QBCJ
PCB-87	ng/L	0.021QBC86J
PCB-88/91	ng/L	0.038U
PCB-89	ng/L	0.038U
PCB-9	ng/L	0.0064QJ
PCB-90/101	ng/L	0.019QBCJ
PCB-92	ng/L	0.038U
PCB-93	ng/L	0.038U
PCB-94	ng/L	0.038U
PCB-95/98/102	ng/L	0.011QBJ
PCB-96	ng/L	0.038U
PCB-97	ng/L	0.021QBC86J
Total Di-CB	ng/L	0.10EMPCU
Total Hepta-CB	ng/L	0.038U
Total Hexa-CB	ng/L	0.027EMPCJ
Total Mono-CB	ng/L	0.0027EMPCU
Total Nona-CB	ng/L	0.038U
Total Octa-CB	ng/L	0.038U
Total Penta-CB	ng/L	0.10EMPCU
Total Tetra-CB	ng/L	0.24EMPC
Total Tri-CB	ng/L	0.15EMPC

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 89
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (Water Samples)
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample
TOTAL PCBs	0.001(S)	ng/L	0.432	388.8712	0.7805	1.5333
10-DiCB	NC	ng/L	0.0054QJ	0.061QJ	0.038U	0.0012QBJ
109-PeCB	NC	ng/L	0.012QBC86J	4.7BC86	0.022QBC86J	0.02QBC86J
112-PeCB	NC	ng/L	0.038U	0.19U	0.038U	0.038U
142-HxCB	NC	ng/L	0.038U	0.19U	0.038U	0.038U
143-HxCB	NC	ng/L	0.038U	0.2C134	0.038U	0.038U
160-HxCB	NC	ng/L	0.0057QBC129J	3.5BC129	0.0068QBC129J	0.022BC129J
161-HxCB	NC	ng/L	0.038U	0.19U	0.038U	0.038U
162-HxCB	NC	ng/L	0.038U	0.19U	0.038U	0.038U
164-HxCB	NC	ng/L	0.038U	0.15QJ	0.038U	0.0017QJ
165-HxCB	NC	ng/L	0.038U	0.19U	0.038U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.038U	5	0.038U	0.0073J
203-OcCB	NC	ng/L	0.038U	0.079QJ	0.038U	0.0022QBJ
21-TrCB C33	NC	ng/L	0.0058QBCJ	0.530QBC	0.0058QBCJ	0.010QBCJ
59-TeCB C62/75	NC	ng/L	0.038U	1.3C	0.038U	0.0031QCJ
64-TeCB	NC	ng/L	0.0067J	5.6	0.0055QJ	0.019QBJ
72-TeCB	NC	ng/L	0.038U	0.077J	0.038U	0.038U
98-PeCB C102	NC	ng/L	0.038U	0.26C	0.038U	0.038U
PCB 101	NC	ng/L	0.038U	5.1BC90	0.011QBC90J	0.024BC90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.26C98	0.038U	0.038U
PCB 115 (BZ)	NC	ng/L	0.0083QBC110J	7.0BC110	0.014QBC110J	0.031BC110J
PCB 116 (BZ)	NC	ng/L	0.038U	1.5C85	0.0019QC85J	0.0052QC85J
PCB 117 (BZ)	NC	ng/L	0.038U	1.5C85	0.0019QC85J	0.0052QC85J
PCB 118	NC	ng/L	0.0078BJ	5.8B	0.0067QBJ	0.014QBJ
PCB 125 (BZ)	NC	ng/L	0.012QBC86J	4.7BC86	0.022QBC86J	0.020QBC86J
PCB 13 (BZ)	NC	ng/L	0.0076QC12J	0.25QC12J	0.0060QC12J	0.0048QBC12J
PCB 138	NC	ng/L	0.0057QBC129J	3.5BC129	0.0068QBC129J	0.022BC129J
PCB 153	NC	ng/L	0.006QCJ	2C	0.0067QCJ	0.017BCJ
PCB 163 (BZ)	NC	ng/L	0.0057QBC129J	3.5BC129	0.0068QBC129J	0.022BC129J
PCB 209	NC	ng/L	0.038U	0.19U	0.038U	0.0042QJ
PCB 28	NC	ng/L	0.018BC20J	18BC20	0.017BC20J	0.033BC20J
PCB 30	NC	ng/L	0.014BC18J	1.5BC18	0.013BC18J	0.022QBC18J
PCB 52	NC	ng/L	0.0091QBJ	11B	0.026BJ	0.052B
PCB 75 (BZ)	NC	ng/L	0.038U	1.3C59	0.038U	0.0031QC59J
PCB 91 (BZ)	NC	ng/L	0.038U	0.96C88	0.038U	0.0038C88J
PCB-1	NC	ng/L	0.038U	0.19U	0.0047QJ	0.0022QBJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 89
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (Water Samples)
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample
PCB-100	NC	ng/L	0.038U	0.073QC93J	0.038U	0.038U
PCB-103	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-104	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-105	NC	ng/L	0.038U	3	0.0029QJ	0.0049QJ
PCB-106/118	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-107/109	NC	ng/L	0.038U	0.41	0.038U	0.0019QJ
PCB-108/112	NC	ng/L	0.038U	0.27C	0.038U	0.038U
PCB-11	NC	ng/L	0.023QBJ	0.046QBJ	0.028QBJ	0.021QBJ
PCB-110	NC	ng/L	0.0083QBCJ	7BC	0.014QBCJ	0.031BCJ
PCB-111/115	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-113	NC	ng/L	0.038U	5.1BC90	0.011QBC90J	0.024BC90J
PCB-114	NC	ng/L	0.038U	0.17QJ	0.038U	0.038U
PCB-119	NC	ng/L	0.012QBC86J	4.7BC86	0.022QBC86J	0.020QBC86J
PCB-12/13	NC	ng/L	0.0076QCJ	0.25QCJ	0.006QCJ	0.0048QBCJ
PCB-120	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-121	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-122	NC	ng/L	0.038U	0.12QJ	0.038U	0.038U
PCB-123	NC	ng/L	0.038U	0.17J	0.038U	0.038U
PCB-124	NC	ng/L	0.038U	0.27C108	0.038U	0.038U
PCB-126	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-127	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-128/162	NC	ng/L	0.038U	0.66C	0.038U	0.0021QCJ
PCB-129	NC	ng/L	0.0057QBCJ	3.5BC	0.0068QBCJ	0.022BCJ
PCB-130	NC	ng/L	0.038U	0.21Q	0.038U	0.0014QJ
PCB-131	NC	ng/L	0.038U	0.075J	0.038U	0.038U
PCB-132/161	NC	ng/L	0.038U	1	0.003QJ	0.0054QBJ
PCB-133/142	NC	ng/L	0.038U	0.028QJ	0.038U	0.038U
PCB-134/143	NC	ng/L	0.038U	0.2C	0.038U	0.038U
PCB-135	NC	ng/L	0.038U	0.63QC	0.0023CJ	0.0052QCJ
PCB-136	NC	ng/L	0.038U	0.26Q	0.038U	0.0017QJ
PCB-137	NC	ng/L	0.038U	0.26	0.038U	0.00079QJ
PCB-139/149	NC	ng/L	0.038U	0.07QCJ	0.038U	0.038U
PCB-14	NC	ng/L	0.038U	0.0058QJ	0.038U	0.0013QJ
PCB-140	NC	ng/L	0.038U	0.070QC139J	0.038U	0.038U
PCB-141	NC	ng/L	0.038U	0.52	0.038U	0.0043J
PCB-144	NC	ng/L	0.038U	0.087QJ	0.038U	0.038U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 89
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (Water Samples)
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample
PCB-145	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-146/165	NC	ng/L	0.038U	0.27Q	0.038U	0.0021QJ
PCB-147	NC	ng/L	0.038U	2.1C	0.0079QCJ	0.015CJ
PCB-148	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-149	NC	ng/L	0.038U	2.1C147	0.0079QC147J	0.015C147J
PCB-15	NC	ng/L	0.0058QBJ	2.9B	0.0051QBJ	0.0061QBJ
PCB-150	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-151	NC	ng/L	0.038U	0.63QC135	0.0023C135J	0.0052QC135J
PCB-152	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-153	NC	ng/L	0.038U	3.9C83	0.0064QC83J	0.018BC83J
PCB-154	NC	ng/L	0.038U	0.035J	0.038U	0.038U
PCB-155	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-156	NC	ng/L	0.038U	0.48C	0.038U	0.002BCJ
PCB-157	NC	ng/L	0.038U	0.48C156	0.038U	0.0020BC156J
PCB-158/160	NC	ng/L	0.038U	0.39	0.038U	0.002BJ
PCB-159	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-16/32	NC	ng/L	0.038U	0.91	0.005J	0.0071QJ
PCB-166	NC	ng/L	0.038U	0.66C128	0.038U	0.0021QC128J
PCB-167	NC	ng/L	0.038U	0.1QJ	0.038U	0.038U
PCB-168	NC	ng/L	0.0060QC153J	2.0C153	0.0067QC153J	0.017BC153J
PCB-169	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-17	NC	ng/L	0.038U	0.82	0.006J	0.0097BJ
PCB-170	NC	ng/L	0.038U	0.27	0.038U	0.006J
PCB-171	NC	ng/L	0.038U	0.066QCJ	0.038U	0.038U
PCB-172	NC	ng/L	0.038U	0.035QJ	0.038U	0.038U
PCB-173	NC	ng/L	0.038U	0.066QC171J	0.038U	0.038U
PCB-174	NC	ng/L	0.038U	0.25	0.038U	0.0065J
PCB-175	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-176	NC	ng/L	0.038U	0.025QJ	0.038U	0.038U
PCB-177	NC	ng/L	0.038U	0.17J	0.038U	0.003J
PCB-178	NC	ng/L	0.038U	0.036QJ	0.038U	0.038U
PCB-179	NC	ng/L	0.038U	0.098J	0.038U	0.038U
PCB-18	NC	ng/L	0.014BCJ	1.5BC	0.013BCJ	0.022QBCJ
PCB-180	NC	ng/L	0.038U	0.56C	0.0051CJ	0.012BCJ
PCB-181	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-182/187	NC	ng/L	0.038U	0.19U	0.038U	0.038U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 89
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (Water Samples)
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample
PCB-183	NC	ng/L	0.038U	0.21Q	0.038U	0.0088QBJ
PCB-184	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-185	NC	ng/L	0.038U	0.18C183J	0.038U	0.0038BC183J
PCB-186	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-188	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-189	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-19	NC	ng/L	0.038U	0.36	0.038U	0.0058QJ
PCB-190	NC	ng/L	0.038U	0.057QJ	0.038U	0.038U
PCB-191	NC	ng/L	0.038U	0.012QJ	0.038U	0.038U
PCB-192	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-193	NC	ng/L	0.038U	0.56C180	0.0051C180J	0.012BC180J
PCB-194	NC	ng/L	0.038U	0.08QJ	0.0014QJ	0.002QJ
PCB-195	NC	ng/L	0.038U	0.027J	0.038U	0.0011QJ
PCB-196/203	NC	ng/L	0.038U	0.048J	0.038U	0.038U
PCB-197	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-198	NC	ng/L	0.038U	0.12CJ	0.0017QCJ	0.005QBCJ
PCB-199	NC	ng/L	0.038U	0.12C198J	0.0017QC198J	0.0050QBC198J
PCB-2	NC	ng/L	0.038U	0.008QBJ	0.0066QBJ	0.0012QBJ
PCB-20/21/33	NC	ng/L	0.018BCJ	18BC	0.017BCJ	0.033BCJ
PCB-200	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-201	NC	ng/L	0.038U	0.0084QJ	0.038U	0.038U
PCB-202	NC	ng/L	0.038U	0.026QJ	0.038U	0.0015QJ
PCB-204	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-205	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-206	NC	ng/L	0.038U	0.063J	0.038U	0.0055QJ
PCB-207	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-208	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-22	NC	ng/L	0.0052J	6.8	0.006J	0.011BJ
PCB-23	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-24/27	NC	ng/L	0.038U	0.14QJ	0.038U	0.038U
PCB-25	NC	ng/L	0.038U	0.71	0.038U	0.0035QJ
PCB-26	NC	ng/L	0.038U	1.2C	0.0034QCJ	0.0054QBCJ
PCB-27	NC	ng/L	0.038U	0.55	0.038U	0.0019QJ
PCB-29	NC	ng/L	0.038U	1.2C26	0.0034QC26J	0.0054QBC26J
PCB-3	NC	ng/L	0.038U	0.023QBJ	0.0063BJ	0.0017J
PCB-31	NC	ng/L	0.0094J	6.3	0.013J	0.026QBJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 89
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (Water Samples)
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample
PCB-32	NC	ng/L	0.038U	2	0.003QJ	0.0054BJ
PCB-33	NC	ng/L	0.0058QBC21J	0.53QBC21	0.0058QBC21J	0.010QBC21J
PCB-34	NC	ng/L	0.038U	0.026QJ	0.038U	0.038U
PCB-35	NC	ng/L	0.038U	0.15J	0.038U	0.038U
PCB-36	NC	ng/L	0.038U	0.18J	0.038U	0.038U
PCB-37	NC	ng/L	0.038U	4.6B	0.0022QBJ	0.0064BJ
PCB-38	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-39	NC	ng/L	0.038U	0.047J	0.038U	0.038U
PCB-4/10	NC	ng/L	0.0075QJ	0.14QJ	0.011QJ	0.0096QBJ
PCB-40	NC	ng/L	0.038U	6.6C	0.0044QCJ	0.017CJ
PCB-41/64/71/72	NC	ng/L	0.038U	6.6C40	0.0044QC40J	0.017C40J
PCB-42/59	NC	ng/L	0.038U	3.4	0.038U	0.0099J
PCB-43/49	NC	ng/L	0.038U	0.41C	0.038U	0.038U
PCB-44	NC	ng/L	0.011QBCJ	11BC	0.024QBCJ	0.039BC
PCB-45	NC	ng/L	0.038U	1.9C	0.0053CJ	0.0076QCJ
PCB-46	NC	ng/L	0.038U	0.57	0.038U	0.0035QJ
PCB-47	NC	ng/L	0.011QBC44J	11BC44	0.024QBC44J	0.039BC44
PCB-48/75	NC	ng/L	0.038U	1.3	0.0031QJ	0.0059QJ
PCB-49	NC	ng/L	0.0062QCJ	6.6C	0.0081QCJ	0.024QBCJ
PCB-5	NC	ng/L	0.038U	0.01QJ	0.038U	0.0024QJ
PCB-50	NC	ng/L	0.038U	1.1C	0.0038CJ	0.008CJ
PCB-51	NC	ng/L	0.038U	1.9C45	0.0053C45J	0.0076QC45J
PCB-53	NC	ng/L	0.038U	1.1C50	0.0038C50J	0.0080C50J
PCB-54	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-55	NC	ng/L	0.0096QJ	0.49Q	0.038U	0.006QBJ
PCB-56/60	NC	ng/L	0.0046QJ	6.8	0.0029QJ	0.011BJ
PCB-57	NC	ng/L	0.038U	0.064QJ	0.038U	0.038U
PCB-58	NC	ng/L	0.038U	0.022QJ	0.038U	0.038U
PCB-6	NC	ng/L	0.038U	0.19QJ	0.0075QJ	0.0043QBJ
PCB-61/70	NC	ng/L	0.0097QBCJ	17BC	0.016BCJ	0.049BC
PCB-62	NC	ng/L	0.038U	1.3C59	0.038U	0.0031QC59J
PCB-63	NC	ng/L	0.038U	0.51	0.038U	0.038U
PCB-65	NC	ng/L	0.011QBC44J	11BC44	0.024QBC44J	0.039BC44
PCB-66	NC	ng/L	0.0044QBJ	14B	0.0088BJ	0.028BJ
PCB-67	NC	ng/L	0.038U	0.42	0.038U	0.038U
PCB-68	NC	ng/L	0.038U	0.04QJ	0.038U	0.038U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 89
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (Water Samples)
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample
PCB-69	NC	ng/L	0.0062QC49J	6.6C49	0.0081QC49J	0.024QBC49J
PCB-7/9	NC	ng/L	0.016QBJ	0.022QBJ	0.017QBJ	0.0013QBJ
PCB-70	NC	ng/L	0.0097QBC61J	17BC61	0.016BC61J	0.049BC61
PCB-71	NC	ng/L	0.038U	6.6C40	0.0044QC40J	0.017C40J
PCB-73	NC	ng/L	0.038U	0.41C43	0.038U	0.038U
PCB-74	NC	ng/L	0.0097QBC61J	17BC61	0.016BC61J	0.049BC61
PCB-76/66	NC	ng/L	0.0097QBC61J	17BC61	0.016BC61J	0.049BC61
PCB-77	NC	ng/L	0.038U	0.89	0.038U	0.0024QBJ
PCB-78	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-79	NC	ng/L	0.038U	0.087J	0.038U	0.038U
PCB-8	NC	ng/L	0.013QBJ	0.34QB	0.022QBJ	0.01QBJ
PCB-80	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-81	NC	ng/L	0.038U	0.05QJ	0.038U	0.038U
PCB-82	NC	ng/L	0.038U	1.3	0.038U	0.0038QJ
PCB-83	NC	ng/L	0.038U	3.9C	0.0064QCJ	0.018BCJ
PCB-84/92	NC	ng/L	0.038U	1.7	0.038U	0.0075QJ
PCB-85/116	NC	ng/L	0.038U	1.5C	0.0019QCJ	0.0052QCJ
PCB-86	NC	ng/L	0.012QBCJ	4.7BC	0.022QBCJ	0.02QBCJ
PCB-87	NC	ng/L	0.012QBC86J	4.7BC86	0.022QBC86J	0.020QBC86J
PCB-88/91	NC	ng/L	0.038U	0.96C	0.038U	0.0038CJ
PCB-89	NC	ng/L	0.038U	0.15QJ	0.038U	0.038U
PCB-9	NC	ng/L	0.038U	0.027QJ	0.0067QJ	0.0014QBJ
PCB-90/101	NC	ng/L	0.038U	5.1BC	0.011QBCJ	0.024BCJ
PCB-92	NC	ng/L	0.038U	0.86	0.038U	0.0059J
PCB-93	NC	ng/L	0.038U	0.073QCJ	0.038U	0.038U
PCB-94	NC	ng/L	0.038U	0.19U	0.038U	0.038U
PCB-95/98/102	NC	ng/L	0.0061BJ	4B	0.01QBJ	0.025QJ
PCB-96	NC	ng/L	0.038U	0.057J	0.038U	0.038U
PCB-97	NC	ng/L	0.012QBC86J	4.7BC86	0.022QBC86J	0.020QBC86J
Total Di-CB	NC	ng/L	0.079EMPCU	4.0EMPCJ	0.10EMPCU	0.064EMPCU
Total Hepta-CB	NC	ng/L	0.038U	2.0EMPCJ	0.0051J	0.040EMPCJ
Total Hexa-CB	NC	ng/L	0.012EMPCU	13EMPCJ	0.027EMPCJ	0.083EMPCJ
Total Mono-CB	NC	ng/L	0.038U	0.031EMPCU	0.018EMPCU	0.0051EMPCU
Total Nona-CB	NC	ng/L	0.038U	0.063J	0.038U	0.0055EMPCJ
Total Octa-CB	NC	ng/L	0.038U	0.39EMCPJ	0.0031EMPCJ	0.012EMPCU
Total Penta-CB	NC	ng/L	0.034EMPCU	42EMPCJ	0.076EMPCU	0.17EMPCJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 89
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water (Water Samples)
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample
Total Tetra-CB	NC	ng/L	0.061EMPCU	96EMPCJ	0.11EMPCU	0.29EMPC
Total Tri-CB	NC	ng/L	0.052EMPCU	45EMPCJ	0.075EMPCU	0.15EMPCJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 90
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Inorganic Compound Data

Parameter Name	NYS Class C Criteria	NYS Class C Criteria (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	0.2U	0.2U	0.2U	0.2U
ANTIMONY	NC	NC	mg/L	0.01U	0.01U	0.01U	0.01U
ARSENIC	0.15(S)	NC	mg/L	0.01U	0.01U	0.0033J	0.01U
BARIUM	NC	NC	mg/L	0.066J	0.68	0.72	0.75
BERYLLIUM	1.1(S)	NC	mg/L	0.004U	0.004U	0.004U	0.004U
BORON	10(S)	NC	mg/L	0.2U	0.2U	0.2U	0.2U
CADMIUM	NC	23.825	mg/L	0.005U	0.005U	0.005U	0.005U
CALCIUM	NC	NC	mg/L	100	1600	1700	1800
CHROMIUM	NC	936.22	mg/L	0.005U	0.005U	0.005U	0.005U
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	0.001UJ	0.00077J	0.001U	0.00065J
COBALT	0.005(S)	NC	mg/L	0.00053J	0.05U	0.05U	0.05U
COPPER	NC	126.28	mg/L	0.025U	0.025U	0.025U	0.025U
CYANIDE	0.0052(S)	NC	mg/L	0.0033J	0.01U	[0.007J]	0.01U
IRON	0.3(S)	NC	mg/L	0.1U	[0.72]	[0.57]	[0.37]
LEAD	NC	83.768	mg/L	0.003U	0.003U	0.015U	0.003U
MAGNESIUM	NC	NC	mg/L	24	20	19	18
MANGANESE	NC	NC	mg/L	0.019	0.57	0.41	0.29
MERCURY	0.0000007(S)	NC	mg/L	[0.00000078]	[0.0000046]	[0.0000035]	[0.0000034]
NICKEL	NC	714.24	mg/L	0.04U	0.04U	0.04U	0.04U
POTASSIUM	NC	NC	mg/L	6.3J	82J	87J	91J
SELENIUM	0.0046(S)	NC	mg/L	0.005U	0.005U	0.005U	0.005U
SILVER	0.0001(S)	NC	mg/L	0.005U	0.005U	0.005U	0.005U
SODIUM	NC	NC	mg/L	110	880	890	920
THALLIUM	0.008(S)	NC	mg/L	0.01U	0.01U	0.01U	0.01U
TIN	NC	NC	mg/L	0.1U	0.1U	0.1U	0.1U
VANADIUM	0.014(S)	NC	mg/L	0.05U	0.0019J	0.05U	0.05U
ZINC	NC	1148.98	mg/L	0.0051J	0.003J	0.0029J	0.0035J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 90
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Inorganic Compound Data

Parameter Name	NYS Class C Criteria	NYS Class C Criteria (hardness dependent)	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	[0.29B]	0.2U	[0.29J]	[0.34J]
ANTIMONY	NC	NC	mg/L	0.01U	0.01U	0.1U	0.1U
ARSENIC	0.15(S)	NC	mg/L	0.01U	0.0032J	0.1U	0.1U
BARIUM	NC	NC	mg/L	0.078J	0.87	0.074J	0.071J
BERYLLIUM	1.1(S)	NC	mg/L	0.004U	0.004U	0.04U	0.04U
BORON	10(S)	NC	mg/L	0.2U	0.2U	2U	2U
CADMIUM	NC	23.825	mg/L	0.005U	0.005U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	780	2700	190	190
CHROMIUM	NC	936.22	mg/L	0.005U	0.00077J	0.05U	0.05U
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	0.001UJ	0.00078J	0.01U	0.01U
COBALT	0.005(S)	NC	mg/L	0.00082J	0.05U	0.5U	0.5U
COPPER	NC	126.28	mg/L	0.025U	0.025U	0.25U	0.25U
CYANIDE	0.0052(S)	NC	mg/L	0.01U	0.0027J	0.01U	0.01U
IRON	0.3(S)	NC	mg/L	[1.1]	[0.57]	1U	1U
LEAD	NC	83.768	mg/L	0.003U	0.015U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	42	5.9	31J	30J
MANGANESE	NC	NC	mg/L	2.1	0.37	0.053J	0.038J
MERCURY	0.0000007(S)	NC	mg/L	[0.0000018]	[0.000028]	[0.0000051]	[0.0000021]
NICKEL	NC	714.24	mg/L	0.04U	0.0025J	0.4U	0.4U
POTASSIUM	NC	NC	mg/L	41J	160J	50U	50U
SELENIUM	0.0046(S)	NC	mg/L	0.005U	0.005U	0.05U	0.05U
SILVER	0.0001(S)	NC	mg/L	0.005U	0.005U	0.05U	0.05U
SODIUM	NC	NC	mg/L	930	1400	35J	33J
THALLIUM	0.008(S)	NC	mg/L	0.01U	0.01U	0.1U	0.1U
TIN	NC	NC	mg/L	0.1U	0.1U	1U	1U
VANADIUM	0.014(S)	NC	mg/L	0.05U	0.05U	0.5U	0.5U
ZINC	NC	1148.98	mg/L	0.0049J	0.0047J	0.2U	0.2U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 90
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Inorganic Compound Data

Parameter Name	NYS Class C Criteria	NYS Class C Criteria (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	[0.12J]	[0.17J]	[0.16J]	[0.19J]
ANTIMONY	NC	NC	mg/L	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.15(S)	NC	mg/L	0.1U	0.1U	0.1U	0.1U
BARIUM	NC	NC	mg/L	0.076J	0.084J	0.091J	0.1J
BERYLLIUM	1.1(S)	NC	mg/L	0.04U	0.04U	0.04U	0.04U
BORON	10(S)	NC	mg/L	2U	2U	2U	2U
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	190	230	320	320
CHROMIUM	NC	936.22	mg/L	0.05U	0.05U	0.05U	0.05U
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	0.01U	0.01UJ	0.01UJ	0.01UJ
COBALT	0.005(S)	NC	mg/L	0.5U	0.5U	0.5U	0.5U
COPPER	NC	126.28	mg/L	0.25U	0.25U	0.25U	0.25U
CYANIDE	0.0052(S)	NC	mg/L	0.01U	0.01U	0.01U	[0.013]
IRON	0.3(S)	NC	mg/L	1U	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	30J	33J	37J	37J
MANGANESE	NC	NC	mg/L	0.041J	0.086J	0.09J	0.11J
MERCURY	0.0000007(S)	NC	mg/L	[0.00000088]	[0.0000013]	0.00000065	[0.0000011]
NICKEL	NC	714.24	mg/L	0.4U	0.4U	0.4U	0.4U
POTASSIUM	NC	NC	mg/L	50U	50U	50U	50U
SELENIUM	0.0046(S)	NC	mg/L	0.05U	0.05U	0.05U	0.05U
SILVER	0.0001(S)	NC	mg/L	0.05U	0.05U	0.05U	0.05U
SODIUM	NC	NC	mg/L	48J	70	150	150
THALLIUM	0.008(S)	NC	mg/L	0.1U	0.1U	0.1U	0.1U
TIN	NC	NC	mg/L	1U	1U	1U	1U
VANADIUM	0.014(S)	NC	mg/L	0.5U	0.5U	0.5U	0.5U
ZINC	NC	1148.98	mg/L	0.2U	0.2U	0.2U	0.2U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 90
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Inorganic Compound Data

Parameter Name	NYS Class C Criteria	NYS Class C Criteria (hardness dependent)	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample	SB915-3086-05 WB915-RET POND2-2 07/18/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	[0.24J]	0.2U	0.2U	0.2U
ANTIMONY	NC	NC	mg/L	0.1U	0.01U	0.01U	0.01U
ARSENIC	0.15(S)	NC	mg/L	0.1U	0.01U	0.01U	0.01U
BARIUM	NC	NC	mg/L	0.075J	0.95	0.55	0.53
BERYLLIUM	1.1(S)	NC	mg/L	0.04U	0.004U	0.004U	0.004U
BORON	10(S)	NC	mg/L	2U	0.2U	0.2U	0.2U
CADMIUM	NC	23.825	mg/L	0.05U	0.005U	0.005U	0.005U
CALCIUM	NC	NC	mg/L	190	2500	1800	1700
CHROMIUM	NC	936.22	mg/L	0.05U	0.005U	0.005U	0.005U
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	0.01U	0.001UJ	0.00072J	0.00082J
COBALT	0.005(S)	NC	mg/L	0.5U	0.05U	0.05U	0.05U
COPPER	NC	126.28	mg/L	0.25U	0.025U	0.025U	0.025U
CYANIDE	0.0052(S)	NC	mg/L	0.01U	0.01U	0.01U	0.01U
IRON	0.3(S)	NC	mg/L	1U	0.11	0.18	0.15
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.015U	0.003U
MAGNESIUM	NC	NC	mg/L	31J	21	28	27
MANGANESE	NC	NC	mg/L	0.042J	0.16	0.2	0.15
MERCURY	0.0000007(S)	NC	mg/L	[0.0000022]	[0.000014]	[0.000002]	[0.0000019]
NICKEL	NC	714.24	mg/L	0.4U	0.0028J	0.0018J	0.0016J
POTASSIUM	NC	NC	mg/L	50U	120J	95J	92J
SELENIUM	0.0046(S)	NC	mg/L	0.05U	0.005U	0.005U	0.005U
SILVER	0.0001(S)	NC	mg/L	0.05U	0.005U	0.005U	0.005U
SODIUM	NC	NC	mg/L	35J	1800	1400	1400
THALLIUM	0.008(S)	NC	mg/L	0.1U	0.01U	0.01U	0.01U
TIN	NC	NC	mg/L	1U	0.1U	0.1U	0.1U
VANADIUM	0.014(S)	NC	mg/L	0.5U	0.05U	0.05U	0.0022J
ZINC	NC	1148.99	mg/L	0.2U	0.0043J	0.02U	0.02U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 91
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
1,2,3,4,6,7,8-HPCDF	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
1,2,3,4,7,8,9-HPCDF	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
1,2,3,4,7,8-HXCDD	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
1,2,3,4,7,8-HXCDF	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
1,2,3,6,7,8-HXCDD	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
1,2,3,6,7,8-HXCDF	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
1,2,3,7,8,9-HXCDD	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
1,2,3,7,8,9-HXCDF	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
1,2,3,7,8-PECDD	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
1,2,3,7,8-PECDF	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
2,3,4,6,7,8-HXCDF	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
2,3,4,7,8-PECDF	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
2,3,7,8-TCDD	0.0000031(S)	ng/L	0.0097U	0.0095U	0.0095U	0.0095U	0.0095U
2,3,7,8-TCDF	0.0000006(S)	ng/L	0.0097U	0.0095U	0.0095U	0.0095U	0.0095U
OCDD	0.0000006(S)	ng/L	0.097U	0.095U	[0.003EMPCJ]	[0.0017EMPCJ]	[0.0026EMPCJ]
OCDF	0.0000006(S)	ng/L	0.097U	0.095U	0.095U	0.095U	0.095U
TOTAL HPCDD	NC	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
TOTAL HPCDF	NC	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
TOTAL HXCDD	NC	ng/L	0.048U	0.0019QJ	0.047U	0.0023QJ	0.047U
TOTAL HXCDF	NC	ng/L	0.048U	0.048U	0.047U	0.048U	0.047U
TOTAL PECDD	NC	ng/L	0.048U	0.048U	0.0018J	0.0012QJ	0.047U
TOTAL PECDF	NC	ng/L	0.048U	0.048U	0.047U	0.00053QJ	0.047U
TOTAL TCDD	NC	ng/L	0.097U	0.095U	0.095U	0.095U	0.095U
Total TCDF	NC	ng/L	0.097U	0.095U	0.095U	0.095U	0.095U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
EMPC = Estimate maximum possible concentration.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 91
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	0.0000006(S)	ng/L	0.048U	[0.0013EMPCJ]	[0.0014EMPCJ]	[0.0012EMPCJ]	[0.0014EMPCJ]
1,2,3,4,6,7,8-HPCDF	0.0000006(S)	ng/L	0.048U	[0.00088EMPCJ]	[0.0011EMPCJ]	[0.00075EMPCJ]	[0.00082EMPCJ]
1,2,3,4,7,8,9-HPCDF	0.0000006(S)	ng/L	0.048U	[0.00044EMPCJ]	[0.00045EMPCJ]	[0.00025EMPCJ]	[0.00027EMPCJ]
1,2,3,4,7,8-HXCDD	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	[0.00034J]	0.048U
1,2,3,4,7,8-HXCDF	0.0000006(S)	ng/L	0.048U	0.048U	0.047U	[0.00031EMPCJ]	[0.00028EMPCJ]
1,2,3,6,7,8-HXCDD	0.0000006(S)	ng/L	0.048U	[0.00049EMPCJ]	0.047U	[0.00037EMPCJ]	[0.00046EMPCJ]
1,2,3,6,7,8-HXCDF	0.0000006(S)	ng/L	0.048U	[0.00051EMPCJ]	0.047U	[0.00054EMPCJ]	[0.00032EMPCJ]
1,2,3,7,8,9-HXCDD	0.0000006(S)	ng/L	0.048U	[0.00033EMPCJ]	0.047U	0.048U	0.048U
1,2,3,7,8,9-HXCDF	0.0000006(S)	ng/L	0.048U	[0.00031EMPCJ]	0.047U	0.048U	[0.00022EMPCJ]
1,2,3,7,8-PECDD	0.0000006(S)	ng/L	0.048U	[0.00046EMPCJ]	[0.00044EMPCJ]	0.048U	[0.00035EMPCJ]
1,2,3,7,8-PECDF	0.0000006(S)	ng/L	0.048U	[0.00029EMPCJ]	[0.00038EMPCJ]	[0.00043EMPCJ]	[0.0003EMPCJ]
2,3,4,6,7,8-HXCDF	0.0000006(S)	ng/L	0.048U	[0.00041EMPCJ]	0.047U	[0.00036EMPCJ]	0.048U
2,3,4,7,8-PECDF	0.0000006(S)	ng/L	0.048U	[0.0004EMPCJ]	[0.00016EMPCJ]	[0.00038EMPCJ]	[0.00029EMPCJ]
2,3,7,8-TCDD	0.0000031(S)	ng/L	0.0095U	[0.00013EMPCJ]	[0.0007EMPCJ]	[0.00083EMPCJ]	[0.0005EMPCJ]
2,3,7,8-TCDF	0.0000006(S)	ng/L	0.0095U	[0.00028EMPCJ]	[0.00023EMPCJ]	0.0095U	0.0095U
OCDD	0.0000006(S)	ng/L	[0.0021EMPCJ]	[0.0085EMPCJ]	[0.0086EMPCJ]	[0.006EMPCJ]	[0.0065EMPCJ]
OCDF	0.0000006(S)	ng/L	0.095U	[0.0023EMPCJ]	[0.0021EMPCJ]	[0.0018EMPCJ]	[0.0017EMPCJ]
TOTAL HPCDD	NC	ng/L	0.048U	0.0026QJB	0.0025QJB	0.0024QBJ	0.0025BJ
TOTAL HPCDF	NC	ng/L	0.048U	0.0022JQB	0.0023JB	0.0015QJB	0.0018JB
TOTAL HXCDD	NC	ng/L	0.048U	0.0013QJB	0.047U	0.00071JB	0.00046BJ
TOTAL HXCDF	NC	ng/L	0.048U	0.0026JQB	0.00059QJ	0.0018QJB	0.0018QJB
TOTAL PECDD	NC	ng/L	0.048U	0.00046BJ	0.00044QBJ	0.00019QBJ	0.00035QBJ
TOTAL PECDF	NC	ng/L	0.048U	0.0013QJB	0.00092QJB	0.001QJB	0.0011QJB
TOTAL TCDD	NC	ng/L	0.095U	0.00013QBJ	0.0007QBJ	0.00083QBJ	0.0005QBJ
Total TCDF	NC	ng/L	0.095U	0.00062QJ	0.00023QJ	0.0095U	0.00044QJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
EMPC = Estimate maximum possible concentration.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 91
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	0.0000006(S)	ng/L	[0.00093EMPCJ]	[0.0012EMPCJ]	[0.0015EMPCJ]	0.047U	0.049U
1,2,3,4,6,7,8-HPCDF	0.0000006(S)	ng/L	[0.00062EMPCJ]	[0.00075EMPCJ]	[0.0016EMPCJ]	0.047U	0.049U
1,2,3,4,7,8,9-HPCDF	0.0000006(S)	ng/L	0.048U	0.048U	[0.00091EMPCJ]	0.047U	0.049U
1,2,3,4,7,8-HXCDD	0.0000006(S)	ng/L	0.048U	0.048U	0.048U	0.047U	0.049U
1,2,3,4,7,8-HXCDF	0.0000006(S)	ng/L	[0.00041EMPCJ]	[0.00029EMPCJ]	[0.00051EMPCJ]	0.047U	0.049U
1,2,3,6,7,8-HXCDD	0.0000006(S)	ng/L	0.048U	[0.00031EMPCJ]	[0.00083EMPCJ]	0.047U	0.049U
1,2,3,6,7,8-HXCDF	0.0000006(S)	ng/L	[0.00037EMPCJ]	[0.00036EMPCJ]	[0.00062EMPCJ]	0.047U	0.049U
1,2,3,7,8,9-HXCDD	0.0000006(S)	ng/L	0.048U	0.048U	0.048U	0.047U	0.049U
1,2,3,7,8,9-HXCDF	0.0000006(S)	ng/L	[0.00034EMPCJ]	[0.00028EMPCJ]	[0.00095EMPCJ]	0.047U	0.049U
1,2,3,7,8-PECDD	0.0000006(S)	ng/L	[0.00032EMPCJ]	0.048U	[0.00067EMPCJ]	0.047U	0.049U
1,2,3,7,8-PECDF	0.0000006(S)	ng/L	0.048U	0.048U	[0.00042EMPCJ]	0.047U	0.049U
2,3,4,6,7,8-HXCDF	0.0000006(S)	ng/L	[0.00047EMPCJ]	[0.00025EMPCJ]	[0.00098EMPCJ]	0.047U	0.049U
2,3,4,7,8-PECDF	0.0000006(S)	ng/L	0.048U	[0.00017EMPCJ]	[0.0011EMPCJ]	0.047U	0.049U
2,3,7,8-TCDD	0.0000031(S)	ng/L	0.0095U	0.0095U	[0.00046EMPCJ]	0.0095U	0.0099U
2,3,7,8-TCDF	0.0000006(S)	ng/L	0.0095U	0.0095U	0.0095U	0.0095U	0.0099U
OCDD	0.0000006(S)	ng/L	[0.0049EMPCJ]	[0.011EMPCJ]	[0.0083EMPCJ]	0.095U	0.099U
OCDF	0.0000006(S)	ng/L	[0.0014EMPCJ]	[0.0019EMPCJ]	[0.0028EMPCJ]	0.095U	0.099U
TOTAL HPCDD	NC	ng/L	0.0023QBJ	0.0028BJ	0.0029JQB	0.047U	0.049U
TOTAL HPCDF	NC	ng/L	0.001QJB	0.0013QJB	0.0035JB	0.047U	0.049U
TOTAL HXCDD	NC	ng/L	0.048U	0.00031QBJ	0.00083QBJ	0.0013J	0.00091QJ
TOTAL HXCDF	NC	ng/L	0.0022QJB	0.0014QJB	0.0037QJB	0.00073QJ	0.049U
TOTAL PECDD	NC	ng/L	0.00032QBJ	0.048U	0.0042QJB	0.0017J	0.049U
TOTAL PECDF	NC	ng/L	0.00029QJ	0.00017QBJ	0.0018QJB	0.047U	0.049U
TOTAL TCDD	NC	ng/L	0.0095U	0.0095U	0.00066QJB	0.0095U	0.0099U
Total TCDF	NC	ng/L	0.0095U	0.00022QJ	0.0095U	0.0095U	0.0099U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
EMPC = Estimate maximum possible concentration.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 91
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-05 WB915-RET POND2-2 07/18/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	0.0000006(S)	ng/L	0.047U
1,2,3,4,6,7,8-HPCDF	0.0000006(S)	ng/L	0.047U
1,2,3,4,7,8,9-HPCDF	0.0000006(S)	ng/L	0.047U
1,2,3,4,7,8-HXCDD	0.0000006(S)	ng/L	0.047U
1,2,3,4,7,8-HXCDF	0.0000006(S)	ng/L	0.047U
1,2,3,6,7,8-HXCDD	0.0000006(S)	ng/L	0.047U
1,2,3,6,7,8-HXCDF	0.0000006(S)	ng/L	0.047U
1,2,3,7,8,9-HXCDD	0.0000006(S)	ng/L	0.047U
1,2,3,7,8,9-HXCDF	0.0000006(S)	ng/L	0.047U
1,2,3,7,8-PECDD	0.0000006(S)	ng/L	0.047U
1,2,3,7,8-PECDF	0.0000006(S)	ng/L	0.047U
2,3,4,6,7,8-HXCDF	0.0000006(S)	ng/L	0.047U
2,3,4,7,8-PECDF	0.0000006(S)	ng/L	0.047U
2,3,7,8-TCDD	0.0000031(S)	ng/L	0.0094U
2,3,7,8-TCDF	0.0000006(S)	ng/L	0.0094U
OCDD	0.0000006(S)	ng/L	0.094U
OCDF	0.0000006(S)	ng/L	0.094U
TOTAL HPCDD	NC	ng/L	0.047U
TOTAL HPCDF	NC	ng/L	0.047U
TOTAL HXCDD	NC	ng/L	0.047U
TOTAL HXCDF	NC	ng/L	0.047U
TOTAL PECDD	NC	ng/L	0.0016QJ
TOTAL PECDF	NC	ng/L	0.00045QJ
TOTAL TCDD	NC	ng/L	0.0094U
Total TCDF	NC	ng/L	0.0094U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
EMPC = Estimate maximum possible concentration.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 92
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Other Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	45B	82B	74B	72B	330B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	45B	82B	74B	72B	330B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	1.4J	2.9	2	3	2.7
BROMIDE	NC	mg/L	0.20U	2.0U	2.5	2.4	1.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	51J	150J	170J	270J	200J
CHLORIDE	NC	mg/L	270B	4600B	4600B	4900B	2300B
HARDNESS (AS CACO3)	NC	mg/L	330	4400	4300	4400	2100
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.14J	0.13J	0.16J	0.16J	3.2J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	25U	25U	25U	25U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.050U	0.50UJ	0.50UJ	0.50UJ	0.47
NITROGEN, NITRITE	NC	mg/L	0.050UJ	0.50UJ	0.50UJ	0.50UJ	0.25UJ
SULFATE	NC	mg/L	150B	52B	47B	44B	510B
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	850J	11000J	12000J	11000J	6400J
TOTAL ORGANIC CARBON	NC	mg/L	12J	4.6J	4.1J	4.6J	2.5J
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.010UJ	0.025J	0.030J	0.0067J	0.0078J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blank.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 92
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Other Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	49B	200B	210B	210B	200B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	8.5	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	49B	210B	210B	210B	200B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	9.5	2.0U	2.0U	2.0U	2.0U
BROMIDE	NC	mg/L	2.8	0.20U	0.20U	0.20U	0.20U
CHEMICAL OXYGEN DEMAND	NC	mg/L	640J	10U	5.3J	5.2J	18J
CHLORIDE	NC	mg/L	7000B	58	56	120	230
HARDNESS (AS CACO3)	NC	mg/L	6500	590	590	620	700
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.13J	0.12J	0.12J	0.23J	0.44J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	25U	25U	25U	25U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.50U	0.44	0.4	0.38	0.39
NITROGEN, NITRITE	NC	mg/L	0.50UJ	0.050UJ	0.050UJ	0.050UJ	0.050UJ
SULFATE	NC	mg/L	20B	430	380	340	360
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	19000J	720J	750J	830J	970J
TOTAL ORGANIC CARBON	NC	mg/L	8.5J	2.0J	2.1J	2.1J	1.9J
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.016J		0.010UJ	0.010UJ	0.010UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 92
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Other Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	200B	200B	200B	73B	91B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	7	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	200B	200B	210B	73B	91B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	1.5J	1.8J	2.0U	1.4J	2.0U
BROMIDE	NC	mg/L	1.8J	0.20U	0.20U	2.0U	2.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	49J	27J	4.7J	860J	190J
CHLORIDE	NC	mg/L	550	530	58	7200B	5100B
HARDNESS (AS CACO3)	NC	mg/L	980	980	590	6300	4500
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.54J	0.40J	0.15J	3.5J	3.9J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U	25U	25U	25U	25U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.46	0.4	0.43	0.50U	0.86
NITROGEN, NITRITE	NC	mg/L	0.11J	0.050UJ	0.050UJ	0.50UJ	0.50UJ
SULFATE	NC	mg/L	320	320	340	210B	310B
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	1700J	1800J	760J	18000J	14000J
TOTAL ORGANIC CARBON	NC	mg/L	2.0J	1.8J	2.9J	1.9J	1.5J
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.0078J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 92
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Other Data

Parameter Name	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-05 WB915-RET POND2-2 07/18/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	89B
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U
ALKALINITY, TOTAL	NC	mg/L	89B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U
BROMIDE	NC	mg/L	2.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	610J
CHLORIDE	NC	mg/L	5400B
HARDNESS (AS CACO3)	NC	mg/L	4600
NITROGEN, AMMONIA (AS N)	NC	mg/L	3.7J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	25U
NITROGEN, NITRATE (AS N)	NC	mg/L	1.0J
NITROGEN, NITRITE	NC	mg/L	0.50UJ
SULFATE	NC	mg/L	310B
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	12000J
TOTAL ORGANIC CARBON	NC	mg/L	1.5J
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.010UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 93
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8290 Dioxins/Furans Equivalence Summary Data

Parameter Name	TEF	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-01 WB915-GRAVEL PIT 07/18/2012 Regular sample	SB915-3086-08 WB915-INTERBED 1 07/18/2012 Regular sample	SB915-3086-09 WB915-INTERBED 2 07/18/2012 Regular sample	SB915-3086-10 WB915-INTERBED 3 07/18/2012 Regular sample	SB915-3086-02 WB915-IRON BROOK 07/18/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	0.01	NC	ng/L	---	---	---	---	---
1,2,3,4,6,7,8-HPCDF	0.01	NC	ng/L	---	---	---	---	---
1,2,3,4,7,8,9-HPCDF	0.01	NC	ng/L	---	---	---	---	---
1,2,3,4,7,8-HXCDD	0.1	NC	ng/L	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	NC	ng/L	---	---	---	---	---
1,2,3,6,7,8-HXCDD	0.1	NC	ng/L	---	---	---	---	---
1,2,3,6,7,8-HXCDF	0.1	NC	ng/L	---	---	---	---	---
1,2,3,7,8,9-HXCDD	0.1	NC	ng/L	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	NC	ng/L	---	---	---	---	---
1,2,3,7,8-PECDD	1	NC	ng/L	---	---	---	---	---
1,2,3,7,8-PECDF	0.03	NC	ng/L	---	---	---	---	---
2,3,4,6,7,8-HXCDF	0.1	NC	ng/L	---	---	---	---	---
2,3,4,7,8-PECDF	0.3	NC	ng/L	---	---	---	---	---
2,3,7,8-TCDD	1	NC	ng/L	---	---	---	---	---
2,3,7,8-TCDF	0.1	NC	ng/L	---	---	---	---	---
OCDD	0.0003	NC	ng/L	---	---	0.0000009	0.00000051	0.00000078
OCDF	0.0003	NC	ng/L	---	---	---	---	---
Total TEQ	NC	0.0000006(S)	ng/L	0	0	[0.0000009]	0.00000051	[0.00000078]

NOTES:
TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.
--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 93
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8290 Dioxins/Furans Equivalence Summary Data

Parameter Name	TEF	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3086-07 WB915-POND AREA N OF WB11 07/18/2012 Regular sample	SB915-3088-02 WB915-REACH A 07/20/2012 Regular sample	SB915-3088-03 WB915-REACH B 07/20/2012 Regular sample	SB915-3088-04 WB915-REACH C 07/20/2012 Regular sample	SB915-3088-05 WB915-REACH D 07/20/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	0.01	NC	ng/L	---	0.000013	0.000014	0.000012	0.000014
1,2,3,4,6,7,8-HPCDF	0.01	NC	ng/L	---	0.0000088	0.000011	0.0000075	0.0000082
1,2,3,4,7,8,9-HPCDF	0.01	NC	ng/L	---	0.0000044	0.0000045	0.0000025	0.0000027
1,2,3,4,7,8-HXCDD	0.1	NC	ng/L	---	---	---	0.000034	---
1,2,3,4,7,8-HXCDF	0.1	NC	ng/L	---	---	---	0.000031	0.000028
1,2,3,6,7,8-HXCDD	0.1	NC	ng/L	---	0.000049	---	0.000037	0.000046
1,2,3,6,7,8-HXCDF	0.1	NC	ng/L	---	0.000051	---	0.000054	0.000032
1,2,3,7,8,9-HXCDD	0.1	NC	ng/L	---	0.000033	---	---	---
1,2,3,7,8,9-HXCDF	0.1	NC	ng/L	---	0.000031	---	---	0.000022
1,2,3,7,8-PECDD	1	NC	ng/L	---	0.00046	0.00044	---	0.00035
1,2,3,7,8-PECDF	0.03	NC	ng/L	---	0.0000087	0.0000114	0.0000129	0.000009
2,3,4,6,7,8-HXCDF	0.1	NC	ng/L	---	0.000041	---	0.000036	---
2,3,4,7,8-PECDF	0.3	NC	ng/L	---	0.00012	0.000048	0.000114	0.000087
2,3,7,8-TCDD	1	NC	ng/L	---	0.00013	0.0007	0.00083	0.0005
2,3,7,8-TCDF	0.1	NC	ng/L	---	0.000028	0.000023	---	---
OCDD	0.0003	NC	ng/L	0.00000063	0.00000255	0.00000258	0.0000018	0.00000195
OCDF	0.0003	NC	ng/L	---	0.00000069	0.00000063	0.00000054	0.00000051
Total TEQ	NC	0.0000006(S)	ng/L	[0.00000063]	[0.00098114]	[0.00125511]	[0.00117324]	[0.00110136]

NOTES:
TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.
--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 93
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8290 Dioxins/Furans Equivalence Summary Data

Parameter Name	TEF	NYS Class C Criteria	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3088-06 WB915-REACH E 07/20/2012 Regular sample	SB915-3088-07 WB915-REACH F 07/20/2012 Regular sample	SB915-3088-01 WB915-REF REACH 07/20/2012 Regular sample	SB915-3086-03 WB915-RET POND1 07/18/2012 Regular sample	SB915-3086-04 WB915-RET POND2-1 07/18/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	0.01	NC	ng/L	0.0000093	0.000012	0.000015	---	---
1,2,3,4,6,7,8-HPCDF	0.01	NC	ng/L	0.0000062	0.0000075	0.000016	---	---
1,2,3,4,7,8,9-HPCDF	0.01	NC	ng/L	---	---	0.0000091	---	---
1,2,3,4,7,8-HXCDD	0.1	NC	ng/L	---	---	---	---	---
1,2,3,4,7,8-HXCDF	0.1	NC	ng/L	0.000041	0.000029	0.000051	---	---
1,2,3,6,7,8-HXCDD	0.1	NC	ng/L	---	0.000031	0.000083	---	---
1,2,3,6,7,8-HXCDF	0.1	NC	ng/L	0.000037	0.000036	0.000062	---	---
1,2,3,7,8,9-HXCDD	0.1	NC	ng/L	---	---	---	---	---
1,2,3,7,8,9-HXCDF	0.1	NC	ng/L	0.000034	0.000028	0.000095	---	---
1,2,3,7,8-PECDD	1	NC	ng/L	0.00032	---	0.00067	---	---
1,2,3,7,8-PECDF	0.03	NC	ng/L	---	---	0.0000126	---	---
2,3,4,6,7,8-HXCDF	0.1	NC	ng/L	0.000047	0.000025	0.000098	---	---
2,3,4,7,8-PECDF	0.3	NC	ng/L	---	0.000051	0.00033	---	---
2,3,7,8-TCDD	1	NC	ng/L	---	---	0.00046	---	---
2,3,7,8-TCDF	0.1	NC	ng/L	---	---	---	---	---
OCDD	0.0003	NC	ng/L	0.00000147	0.0000033	0.00000249	---	---
OCDF	0.0003	NC	ng/L	0.00000042	0.00000057	0.00000084	---	---
Total TEQ	NC	0.0000006(S)	ng/L	[0.00049639]	[0.00022337]	[0.00190503]	0	0

NOTES:
TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.
--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 93
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Surface Water
Method 8290 Dioxins/Furans Equivalence Summary Data

			Field Sample ID	SB915-3086-05
			Location	WB915-RET POND2-2
			Sample Date	07/18/2012
		NYS Class C	Sample Purpose	Regular sample
Parameter Name	TEF	Criteria	Units	
1,2,3,4,6,7,8-HPCDD	0.01	NC	ng/L	---
1,2,3,4,6,7,8-HPCDF	0.01	NC	ng/L	---
1,2,3,4,7,8,9-HPCDF	0.01	NC	ng/L	---
1,2,3,4,7,8-HXCDD	0.1	NC	ng/L	---
1,2,3,4,7,8-HXCDF	0.1	NC	ng/L	---
1,2,3,6,7,8-HXCDD	0.1	NC	ng/L	---
1,2,3,6,7,8-HXCDF	0.1	NC	ng/L	---
1,2,3,7,8,9-HXCDD	0.1	NC	ng/L	---
1,2,3,7,8,9-HXCDF	0.1	NC	ng/L	---
1,2,3,7,8-PECDD	1	NC	ng/L	---
1,2,3,7,8-PECDF	0.03	NC	ng/L	---
2,3,4,6,7,8-HXCDF	0.1	NC	ng/L	---
2,3,4,7,8-PECDF	0.3	NC	ng/L	---
2,3,7,8-TCDD	1	NC	ng/L	---
2,3,7,8-TCDF	0.1	NC	ng/L	---
OCDD	0.0003	NC	ng/L	---
OCDF	0.0003	NC	ng/L	---
Total TEQ	NC	0.0000006(S)	ng/L	0

NOTES:
TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.
--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 94
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID / Location / Sample Date / Sample Purpose / Units	SB915-3092-09 WB915-GRAVEL PIT 09/24/2012 Regular sample	SB915-3093-05 WB915-INTERBED 1 09/25/2012 Regular sample	SB915-3093-08 WB915-INTERBED 2 09/25/2012 Regular sample	SB915-3093-09 WB915-INTERBED 3 09/25/2012 Regular sample	SB915-3092-01 WB915-IRON BROOK 09/24/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	2U	2U	2U	2U	2U
ANTIMONY	NC	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.15(S)	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	NC	NC	mg/L	2U	2U	2U	2U	2U
BERYLLIUM	1.1(S)	NC	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	10(S)	NC	mg/L	2U	2U	2U	2U	2U
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	81	1700	1800	1800	730
CHROMIUM	NC	936.22	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
COBALT	0.005(S)	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	NC	126.28	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U
IRON	0.3(S)	NC	mg/L	1U	1U	1U	1U	[4.9J]
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.15U	0.15U	0.15U	0.15U	0.89
NICKEL	NC	714.24	mg/L	0.4U	0.4U	0.4U	0.4U	0.4U
POTASSIUM	NC	NC	mg/L	50U	60	62	65	50U
SELENIUM	0.0046(S)	NC	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.0001(S)	NC	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	NC	NC	mg/L	86	960	980	1000	900
THALLIUM	0.008(S)	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	NC	mg/L	1U	1U	1U	1U	1U
VANADIUM	0.014(S)	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U
ZINC	NC	1148.99	mg/L	0.2U	0.2U	0.2U	0.2U	0.2U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 94
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3093-04 WB915-POND AREA N OF WB11 09/25/2012 Regular sample	SB915-3092-03 WB915-REACH A 09/24/2012 Regular sample	SB915-3092-04 WB915-REACH B 09/24/2012 Regular sample	SB915-3092-08 WB915-REACH C 09/24/2012 Regular sample	SB915-3092-07 WB915-REACH D 09/24/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	2U	2U	2U	2U	2U
ANTIMONY	NC	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.15(S)	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	NC	NC	mg/L	2U	2U	2U	2U	2U
BERYLLIUM	1.1(S)	NC	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	10(S)	NC	mg/L	2U	2U	2U	2U	2U
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	1800	180	170	200	220
CHROMIUM	NC	936.22	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
COBALT	0.005(S)	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	NC	126.28	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U
IRON	0.3(S)	NC	mg/L	[1.5J]	1U	1U	1U	[1.1J]
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.44	0.15U	0.15U	0.15U	0.15U
NICKEL	NC	714.24	mg/L	0.4U	0.4U	0.4U	0.4U	0.4U
POTASSIUM	NC	NC	mg/L	87	50U	50U	50U	50U
SELENIUM	0.0046(S)	NC	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.0001(S)	NC	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	NC	NC	mg/L	930	50U	50U	50	69
THALLIUM	0.008(S)	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	NC	mg/L	1U	1U	1U	1U	1U
VANADIUM	0.014(S)	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U
ZINC	NC	1148.99	mg/L	0.2U	0.2U	0.2U	0.2U	0.2U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 94
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3092-06 WB915-REACH E 09/24/2012 Regular sample	SB915-3092-05 WB915-REACH F 09/24/2012 Regular sample	SB915-3092-02 WB915-REF REACH 09/24/2012 Regular sample	SB915-3093-01 WB915-RET POND1 09/25/2012 Regular sample	SB915-3093-02 WB915-RET POND2-1 09/25/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	2U	2U	2U	2U	2U
ANTIMONY	NC	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U
ARSENIC	0.15(S)	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U
BARIUM	NC	NC	mg/L	2U	2U	2U	2U	2U
BERYLLIUM	1.1(S)	NC	mg/L	0.04U	0.04U	0.04U	0.04U	0.04U
BORON	10(S)	NC	mg/L	2U	2U	2U	2U	2U
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	320	320	180	2400	1900
CHROMIUM	NC	936.22	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
COBALT	0.005(S)	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U
COPPER	NC	126.28	mg/L	0.25U	0.25U	0.25U	0.25U	0.25U
IRON	0.3(S)	NC	mg/L	1U	1U	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.15U	0.15U	0.15U	0.15U	0.15U
NICKEL	NC	714.24	mg/L	0.4U	0.4U	0.4U	0.4U	0.4U
POTASSIUM	NC	NC	mg/L	50U	50U	50U	82	69
SELENIUM	0.0046(S)	NC	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
SILVER	0.0001(S)	NC	mg/L	0.05U	0.05U	0.05U	0.05U	0.05U
SODIUM	NC	NC	mg/L	150	150	50U	1900	1500
THALLIUM	0.008(S)	NC	mg/L	0.1U	0.1U	0.1U	0.1U	0.1U
TIN	NC	NC	mg/L	1U	1U	1U	1U	1U
VANADIUM	0.014(S)	NC	mg/L	0.5U	0.5U	0.5U	0.5U	0.5U
ZINC	NC	1148.99	mg/L	0.2U	0.2U	0.2U	0.2U	0.2U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 94
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3093-03 WB915-RET POND2-2 09/25/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	2U
ANTIMONY	NC	NC	mg/L	0.1U
ARSENIC	0.15(S)	NC	mg/L	0.1U
BARIUM	NC	NC	mg/L	2U
BERYLLIUM	1.1(S)	NC	mg/L	0.04U
BORON	10(S)	NC	mg/L	2U
CADMIUM	NC	23.825	mg/L	0.05U
CALCIUM	NC	NC	mg/L	1900
CHROMIUM	NC	936.22	mg/L	0.05U
COBALT	0.005(S)	NC	mg/L	0.5U
COPPER	NC	126.28	mg/L	0.25U
IRON	0.3(S)	NC	mg/L	1U
LEAD	NC	83.768	mg/L	0.03U
MAGNESIUM	NC	NC	mg/L	50U
MANGANESE	NC	NC	mg/L	0.15U
NICKEL	NC	714.24	mg/L	0.4U
POTASSIUM	NC	NC	mg/L	71
SELENIUM	0.0046(S)	NC	mg/L	0.05U
SILVER	0.0001(S)	NC	mg/L	0.05U
SODIUM	NC	NC	mg/L	1600
THALLIUM	0.008(S)	NC	mg/L	0.1U
TIN	NC	NC	mg/L	1U
VANADIUM	0.014(S)	NC	mg/L	0.5U
ZINC	NC	1148.99	mg/L	0.2U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 95
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3092-09 WB915-GRAVEL PIT 09/24/2012 Regular sample	SB915-3093-05 WB915-INTERBED 1 09/25/2012 Regular sample	SB915-3093-08 WB915-INTERBED 2 09/25/2012 Regular sample	SB915-3093-09 WB915-INTERBED 3 09/25/2012 Regular sample	SB915-3092-01 WB915-IRON BROOK 09/24/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	33	86	76	70	220
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	8.6	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	42	86	76	70	220
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.4	2.0U	2.0U	2.0U	2.0U
BROMIDE	NC	mg/L	0.20U	3.2	3.2	3.2	1.7
CHEMICAL OXYGEN DEMAND	NC	mg/L	16J	440J	470J	490J	72J
CHLORIDE	NC	mg/L	190	4700	4900	5100	2300
HARDNESS (AS CACO3)	NC	mg/L	300	4500	4400	4600	2000
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.2	0.12	0.13	0.22	3
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.050U	0.50U	0.50U	0.50U	0.37
SULFATE	NC	mg/L	150	59	49	45	470
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	570J	8600J	9000J	8600J	4500J
TOTAL ORGANIC CARBON	NC	mg/L	12	3.2	3.1	3.1	2.5
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.010U	0.015	0.016	0.015	0.075J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 95
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3093-04 WB915-POND AREA N OF WB11 09/25/2012 Regular sample	SB915-3092-03 WB915-REACH A 09/24/2012 Regular sample	SB915-3092-04 WB915-REACH B 09/24/2012 Regular sample	SB915-3092-08 WB915-REACH C 09/24/2012 Regular sample	SB915-3092-07 WB915-REACH D 09/24/2012 Regular sample	SB915-3092-06 WB915-REACH E 09/24/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	70	220	220	210	190	210
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	6.3	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	70	220	220	220	190	210
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	6.0U	2.0U	2.0U	2.0U	2.0U	2.0U
BROMIDE	NC	mg/L	3.2	0.20U	0.20U	0.20U	0.20U	0.50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	510J	260J	13J	29J	38J	41J
CHLORIDE	NC	mg/L	5000	64	63	120	210	560
HARDNESS (AS CACO3)	NC	mg/L	4800	600	600	630	710	980
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.24	0.10U	0.14	0.3	0.33	0.51
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.50U	0.42	0.41	0.41	0.43	0.38
SULFATE	NC	mg/L	35	360	360	350	340	320
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	9100J	740J	740J	840J	910J	1600J
TOTAL ORGANIC CARBON	NC	mg/L	9.4	2.2	2.2	2.2	2.1	2.1
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.01	0.010U	0.010U	0.010U	0.010U	0.010U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 95
Honeywell
Wastebeds 9-15 Closure Investigation
Round 2 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3092-05 WB915-REACH F 09/24/2012 Regular sample	SB915-3092-02 WB915-REF REACH 09/24/2012 Regular sample	SB915-3093-01 WB915-RET POND1 09/25/2012 Regular sample	SB915-3093-02 WB915-RET POND2-1 09/25/2012 Regular sample	SB915-3093-03 WB915-RET POND2-2 09/25/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	210	220	73	96	97
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	210	220	73	96	97
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0U	2.0U	2.0U	2.0U
BROMIDE	NC	mg/L	0.20U	0.20U	3.8	3.5	3.4
CHEMICAL OXYGEN DEMAND	NC	mg/L	18J	99J	3600J	630J	580J
CHLORIDE	NC	mg/L	520	64	7400	5900	5900
HARDNESS (AS CACO3)	NC	mg/L	950	600	6200	5100	5000
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.51	0.10U	0.59	1.5	1.4
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.45	0.44	0.76	1.3	1.2
SULFATE	NC	mg/L	330	340	290	370	380
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	1600J	720J	13000J	11000J	12000J
TOTAL ORGANIC CARBON	NC	mg/L	2.2	2.1	2.6	1.9	1.7
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.010U	0.010U	0.010U	0.022	0.012

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 96
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 8260 Volatile Organic Compound Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1U	1.0U
1,1,1-TRICHLOROETHANE	NC	µg/L	1.0U	1U	1.0U
1,1,2,2-TETRACHLOROETHANE	NC	µg/L	1.0U	1U	1.0U
1,1,2-TRICHLOROETHANE	NC	µg/L	1.0U	1U	1.0U
1,1-DICHLOROETHANE	NC	µg/L	1.0U	1U	1.0U
1,1-DICHLOROETHENE	NC	µg/L	1.0U	1U	1.0U
1,1-DICHLOROPROPENE	NC	µg/L	1.0U	1U	1.0U
1,2,3-TRICHLOROPROPANE	NC	µg/L	1.0U	1U	1.0U
1,2,4-TRICHLOROBENZENE	5(S)	µg/L	1.0U	1U	1.0U
1,2-DIBROMO-3-CHLOROPROPANE	NC	µg/L	1.0U	1U	1.0U
1,2-DIBROMOETHANE	NC	µg/L	1.0U	1U	1.0U
1,2-DICHLOROBENZENE	5(S)	µg/L	1.0U	1U	1.0U
1,2-DICHLOROETHANE	NC	µg/L	1.0U	1U	1.0U
1,2-DICHLOROPROPANE	NC	µg/L	1.0U	1U	1.0U
1,3-DICHLOROBENZENE	5(S)	µg/L	1.0U	1U	1.0U
1,3-DICHLOROPROPANE	NC	µg/L	1.0U	1U	1.0U
1,4-DICHLOROBENZENE	5(S)	µg/L	1.0U	1U	1.0U
2,2-DICHLOROPROPANE	NC	µg/L	1.0U	1U	1.0U
2-BUTANONE	NC	µg/L	5.0U	5U	5.0U
2-HEXANONE	NC	µg/L	5.0U	5U	5.0U
2-PROPENENITRILE, 2-METHYL-	NC	µg/L	1.0U	1U	1.0U
4-METHYL-2-PENTANONE	NC	µg/L	5.0U	5U	5.0U
ACETONE	NC	µg/L	5.0U	5U	5.0U
ACETONITRILE	NC	µg/L	20U	20U	20U
ACROLEIN	NC	µg/L	20U	20U	20U
ACRYLONITRILE	NC	µg/L	20U	20U	20U
ALLYL CHLORIDE	NC	µg/L	1.0U	1U	1.0U
BENZENE	10(S)	µg/L	1.0U	1U	1.0U
BROMOCHLOROMETHANE	NC	µg/L	1.0U	1U	1.0U
BROMODICHLOROMETHANE	NC	µg/L	1.0U	1U	1.0U
BROMOFORM	NC	µg/L	1.0U	1U	1.0U
BROMOMETHANE	NC	µg/L	1.0U	1U	1.0U
CARBON DISULFIDE	NC	µg/L	1.0U	1U	1.0U
CARBON TETRACHLORIDE	NC	µg/L	1.0U	1U	1.0U
CHLOROBENZENE	5(S)	µg/L	1.0U	1U	1.0U
CHLOROETHANE	NC	µg/L	1.0U	1U	1.0U
CHLOROFORM	NC	µg/L	1.0U	1U	1.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 96
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 8260 Volatile Organic Compound Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
CHLOROMETHANE	NC	µg/L	1.0U	1U	1.0U
CHLOROPRENE	NC	µg/L	1.0U	1U	1.0U
CIS-1,2-DICHLOROETHENE	NC	µg/L	1.0U	1U	1.0U
CIS-1,3-DICHLOROPROPENE	NC	µg/L	1.0U	1U	1.0U
Dibromochloromethane	NC	µg/L	1.0U	1U	1.0U
DIBROMOMETHANE	NC	µg/L	1.0U	1U	1.0U
DICHLORODIFLUOROMETHANE	NC	µg/L	1.0U	1U	1.0U
ETHYL CYANIDE	NC	µg/L	2.0U	2U	2.0U
ETHYL METHACRYLATE	NC	µg/L	1.0U	1U	1.0U
ETHYLBENZENE	17(G)	µg/L	1.0U	1U	1.0U
IODOMETHANE	NC	µg/L	1.0U	1U	1.0U
ISOBUTANOL	NC	µg/L	40U	40U	40U
METHYL METHACRYLATE	NC	µg/L	1.0U	1U	1.0U
METHYLENE CHLORIDE	200(S)	µg/L	1.0U	1U	1.0U
STYRENE	NC	µg/L	1.0U	1U	1.0U
TETRACHLOROETHENE	1(G)	µg/L	1.0U	1U	1.0U
TOLUENE	100(G)	µg/L	1.0U	1U	1.0U
TRANS-1,2-DICHLOROETHENE	NC	µg/L	1.0U	1U	1.0U
TRANS-1,3-DICHLOROPROPENE	NC	µg/L	1.0U	1U	1.0U
TRANS-1,4-DICHLORO-2-BUTENE	NC	µg/L	1.0U	1U	1.0U
TRICHLOROETHENE	40(S)	µg/L	1.0U	1U	1.0U
TRICHLOROFLUOROMETHANE	NC	µg/L	1.0U	1U	1.0U
VINYL ACETATE	NC	µg/L	1.0U	1U	1.0U
VINYL CHLORIDE	NC	µg/L	1.0U	1U	1.0U
XYLENES, TOTAL	65(G)	µg/L	3.0U	3U	3.0U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 97
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	µg/L	4.8UJ	4.8U	4.7U
1,2,4,5-TETRACHLOROBENZENE	NC	µg/L	0.96UJ	0.95U	0.94U
1,3,5-TRINITROBENZENE	NC	µg/L	0.96UJ	0.95U	0.94U
1,3-DINITROBENZENE	NC	µg/L	0.96UJ	0.95U	0.94U
1,4-NAPHTHOQUINONE	NC	µg/L	0.96UJ	0.95U	0.94U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0UJ	0.00UJ
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	µg/L	0.00UJ	0UJ	0.00UJ
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	µg/L	0.19UJ	0.19U	0.19U
2,3,4,6-TETRACHLOROPHENOL	NC	µg/L	0.96UJ	0.95U	0.94U
2,4,5-TRICHLOROPHENOL	1(S)	µg/L	0.96UJ	0.95U	0.94U
2,4,6-TRICHLOROPHENOL	1(S)	µg/L	0.96UJ	0.95U	0.94U
2,4-DICHLOROPHENOL	1(S)	µg/L	0.19UJ	0.19U	0.19U
2,4-DIMETHYLPHENOL	5(S)	µg/L	0.96UJ	0.95U	0.94U
2,4-DINITROPHENOL	400(S)	µg/L	4.8UJ	4.8U	4.7U
2,4-DINITROTOLUENE	NC	µg/L	0.96UJ	0.95U	0.94U
2,6-DICHLOROPHENOL	NC	µg/L	0.96U	0.95U	0.94U
2,6-DINITROTOLUENE	NC	µg/L	0.96UJ	0.95U	0.94U
2-ACETYLAMINOFLUORENE	NC	µg/L	0.96UJ	0.95U	0.94U
2-CHLORONAPHTHALENE	NC	µg/L	0.19UJ	0.19U	0.19U
2-CHLOROPHENOL	1(S)	µg/L	0.96UJ	0.95U	0.94U
2-METHYLNAPHTHALENE	4.7(G)	µg/L	0.19UJ	0.19U	0.19U
2-METHYLPHENOL	NC	µg/L	0.96UJ	0.95U	0.94U
2-NAPHTHYLAMINE	NC	µg/L	0.96UJ	0.95U	0.94U
2-NITROANILINE	NC	µg/L	4.8UJ	4.8U	4.7U
2-NITROPHENOL	NC	µg/L	0.96UJ	0.95U	0.94U
3&4-METHYLPHENOL	NC	µg/L	0.96UJ	0.95U	0.94U
3,3'-DICHLOROBENZIDINE	NC	µg/L	0.96UJ	0.95U	0.94U
3-METHYLCHOLANTHRENE	NC	µg/L	0.96UJ	0.95U	0.94U
3-NITROANILINE	NC	µg/L	4.8UJ	4.8U	4.7U
4,6-DINITRO-2-METHYLPHENOL	NC	µg/L	4.8UJ	4.8U	4.7U
4-AMINOBIPHENYL	NC	µg/L	0.96UJ	0.95U	0.94U
4-BROMOPHENYL PHENYL ETHER	NC	µg/L	0.96UJ	0.95U	0.94U
4-CHLORO-3-METHYLPHENOL	NC	µg/L	0.96UJ	0.95U	0.94U
4-CHLOROANILINE	NC	µg/L	0.96UJ	0.95U	0.94U
4-CHLOROPHENYL PHENYL ETHER	NC	µg/L	0.96UJ	0.95U	0.94U
4-NITROANILINE	NC	µg/L	4.8UJ	4.8U	4.7U
4-NITROPHENOL	NC	µg/L	4.8UJ	4.8U	4.7U
5-NITRO-O-TOLUIDINE	NC	µg/L	0.96UJ	0.95U	0.94U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 97
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	µg/L	0.96UJ	0.95U	0.94U
ACENAPHTHENE	5.3(G)	µg/L	0.19UJ	0.19U	0.19U
ACENAPHTHYLENE	NC	µg/L	0.19UJ	0.19U	0.19U
ACETOPHENONE	NC	µg/L	0.96UJ	0.95U	0.94U
ALPHA-NAPHTHYLAMINE	NC	µg/L	0.96UJ	0.95U	0.94U
ANTHRACENE	3.8(G)	µg/L	0.19UJ	0.19U	0.19U
P-DIMETHYLAMINOAZOBENZENE	NC	µg/L	0.96UJ	0.95U	0.94U
CHLOROBENZILATE	NC	µg/L	0.96UJ	0.95U	0.94U
BENZO(A)ANTHRACENE	0.03(G)	µg/L	0.19UJ	0.19U	0.19U
BENZO(A)PYRENE	0.0012(G)	µg/L	0.19UJ	0.19U	0.19U
BENZO(B)FLUORANTHENE	NC	µg/L	0.19UJ	0.19U	0.19U
BENZO(G,H,I)PERYLENE	NC	µg/L	0.19UJ	0.19U	0.19U
BENZO(K)FLUORANTHENE	NC	µg/L	0.19UJ	0.19U	0.19U
BENZYL ALCOHOL	NC	µg/L	0.96U	0.95U	0.94U
BIS(2-CHLOROETHOXY)METHANE	NC	µg/L	0.96UJ	0.95U	0.94U
BIS(2-CHLOROETHYL)ETHER	NC	µg/L	0.19UJ	0.19U	0.19U
BIS(2-ETHYLHEXYL)PHTHALATE	0.6(S)	µg/L	1.9UJ	1.9U	1.9U
BUTYLBENZYL PHTHALATE	NC	µg/L	0.96UJ	0.95U	0.94U
DIALLATE	NC	µg/L	0.96UJ	0.95U	0.94U
CHRYSENE	NC	µg/L	0.19UJ	0.19U	0.19U
DI-N-BUTYL PHTHALATE	NC	µg/L	0.96UJ	0.95U	0.94U
DI-N-OCTYL PHTHALATE	NC	µg/L	0.96UJ	0.95U	0.94U
DIBENZO(A,H)ANTHRACENE	NC	µg/L	0.19UJ	0.19U	0.19U
DIBENZOFURAN	NC	µg/L	0.96UJ	0.95U	0.94U
DIETHYL PHTHALATE	NC	µg/L	0.96UJ	0.95U	0.94U
DIMETHYL PHTHALATE	NC	µg/L	0.96UJ	0.95U	0.94U
FLUORANTHENE	NC	µg/L	0.19UJ	0.19U	0.19U
FLUORENE	0.54(G)	µg/L	0.19UJ	0.19U	0.19U
HEXACHLOROBUTADIENE	1(S)	µg/L	0.19UJ	0.19U	0.19U
HEXACHLOROCYCLOPENTADIENE	0.45(S)	µg/L	0.96R	0.95UJ	0.94UJ
HEXACHLOROETHANE	0.6(S)	µg/L	0.96UJ	0.95U	0.94U
HEXACHLOROPROPENE	NC	µg/L	0.96UJ	0.95U	0.94U
INDENO(1,2,3-CD)PYRENE	NC	µg/L	0.19UJ	0.19U	0.19U
ISODRIN	NC	µg/L	0.96UJ	0.95U	0.94U
ISOPHORONE	NC	µg/L	0.96UJ	0.95U	0.94U
ISOSAFROLE	NC	µg/L	0.96UJ	0.95U	0.94U
KEPONE	NC	µg/L	3.8UJ	3.8U	3.8U
METHANESULFONIC ACID, ETHYL ESTER	NC	µg/L	0.96UJ	0.95U	0.94U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 97
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 8270 Semivolatile Organic Compound Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
METHAPYRILENE	NC	µg/L	0.96UJ	0.95U	0.94U
METHYL METHANESULFONATE	NC	µg/L	0.96U	0.95U	0.94U
N-NITROSO-DI-N-PROPYLAMINE	NC	µg/L	0.19UJ	0.19U	0.19U
N-NITROSODI-N-BUTYLAMINE	NC	µg/L	0.96UJ	0.95U	0.94U
N-NITROSODIETHYLAMINE	NC	µg/L	0.96UJ	0.95U	0.94U
N-NITROSODIMETHYLAMINE	NC	µg/L	0.96UJ	0.95U	0.94U
N-NITROSODIPHENYLAMINE	NC	µg/L	0.96UJ	0.95U	0.94U
N-NITROSOMETHYLETHYLAMINE	NC	µg/L	0.96UJ	0.95U	0.94U
N-NITROSOPIPERIDINE	NC	µg/L	0.96UJ	0.95U	0.94U
N-NITROSOPYRROLIDINE	NC	µg/L	0.96UJ	0.95U	0.94U
NAPHTHALENE	13(G)	µg/L	0.19UJ	0.19U	0.19U
NITROBENZENE	NC	µg/L	1.9UJ	1.9U	1.9U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	µg/L	0.96UJ	0.95U	0.94U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	µg/L	0.96UJ	0.95U	0.94U
O-TOLUIDINE	NC	µg/L	0.96UJ	0.95U	0.94U
P-PHENYLENEDIAMINE	NC	µg/L	19UJ	19U	19U
PENTACHLOROBENZENE	NC	µg/L	0.96UJ	0.95U	0.94U
PENTACHLORONITROBENZENE	NC	µg/L	0.96UJ	0.95U	0.94U
PENTACHLOROPHENOL	1(S)	µg/L	0.96UJ	0.95U	0.94U
PHENACETIN	NC	µg/L	0.96UJ	0.95U	0.94U
PHENANTHRENE	5(G)	µg/L	0.19UJ	0.19U	0.19U
PHENOL	5(S)	µg/L	0.19UJ	0.19U	0.19U
PRONAMIDE	NC	µg/L	0.96UJ	0.95U	0.94U
PYRENE	4.6(G)	µg/L	0.19UJ	0.19U	0.19U
SAFROLE	NC	µg/L	0.96UJ	0.95U	0.94U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 98
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 8081 Pesticde Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
4,4'-DDD	0.00008(S)	µg/L	0.0012U	0.0012U	0.0012U
4,4'-DDE	0.000007(S)	µg/L	0.0012U	0.0012U	0.0012U
4,4'-DDT	0.00001(S)	µg/L	0.0012U	0.0012U	0.0012U
ALDRIN	0.001(S)	µg/L	0.0012U	0.0012U	0.0012U
ALPHA-BHC	0.002(S)	µg/L	0.0012U	0.0012U	0.0012U
BETA-BHC	0.007(S)	µg/L	0.0012U	0.0012U	0.0012U
CHLORDANE	0.00002(S)	µg/L	0.012U	0.012U	0.012U
DELTA-BHC	0.008(S)	µg/L	0.0012U	0.0012U	0.0012U
DIELDRIN	0.056(S)	µg/L	0.0012U	0.0012U	0.0012U
ENDOSULFAN I	0.009(S)	µg/L	0.0012U	0.0012U	0.0012U
ENDOSULFAN II	0.009(S)	µg/L	0.0012U	0.0012U	0.0012U
ENDOSULFAN SULFATE	NC	µg/L	0.0012U	0.0012U	0.0012U
ENDRIN	0.036(S)	µg/L	0.0012U	0.0012U	0.0012U
ENDRIN ALDEHYDE	NC	µg/L	0.0012U	0.0012U	0.0012U
GAMMA-BHC (LINDANE)	NC	µg/L	0.0015p	0.0012U	0.0012U
HEPTACHLOR	0.0002(S)	µg/L	0.0012U	0.0012U	0.0012U
HEPTACHLOR EPOXIDE	0.0003(S)	µg/L	0.0012U	0.0012U	0.0012U
HEXACHLOROBENZENE	0.00003(S)	µg/L	0.0012U	0.0012U	0.0012U
METHOXYCHLOR	0.03(S)	µg/L	0.0024U	0.0024U	0.0024U
TOXAPHENE	0.000006(S)	µg/L	0.094U	0.095U	0.095U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 99
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 8141 Pesticide Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
DISULFOTON	NC	µg/L	0.95U	0.95U	0.95U
ETHYL PARATHION	NC	µg/L	0.95U	0.95U	0.95U
FAMPHUR	NC	µg/L	0.95U	0.95U	0.95U
Methyl parathion	NC	µg/L	0.95U	0.95U	0.95U
PHORATE	NC	µg/L	0.95U	0.95U	0.95U
THIONAZIN	NC	µg/L	0.95U	0.95U	0.95U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 100
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 8151 Herbicide Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
2,4,5-T	NC	µg/L	0.95U	0.95U	0.95U
2,4,5-TP (SILVEX)	NC	µg/L	0.95U	0.95U	0.95U
2,4-D	NC	µg/L	3.8U	3.8U	3.8U
DINOSEB	NC	µg/L	0.86U	0.86U	0.86U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 101
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 1668 PCB Congener and Homolog Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
TOTAL PCBs	0.001(S)	ng/L	0.768363	0.3656	0.50838
10-DiCB	NC	ng/L	0.0014QBJ	0.0012QJ	0.038U
109-PeCB	NC	ng/L	0.0077QC86J	0.014QBC86J	0.019BC86J
112-PeCB	NC	ng/L	0.038U	0.038U	0.038U
142-HxCB	NC	ng/L	0.038U	0.038U	0.038U
143-HxCB	NC	ng/L	0.038U	0.038U	0.038U
160-HxCB	NC	ng/L	0.017BC129J	0.0074BC129J	0.0099BC129J
161-HxCB	NC	ng/L	0.038U	0.038U	0.038U
162-HxCB	NC	ng/L	0.038U	0.038U	0.038U
164-HxCB	NC	ng/L	0.038U	0.038U	0.038U
165-HxCB	NC	ng/L	0.038U	0.038U	0.038U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.001J	0.038U	0.038U
203-OcCB	NC	ng/L	0.038U	0.038U	0.038U
21-TrCB C33	NC	ng/L	0.0031QBCJ	0.0041BCJ	0.0056BCJ
59-TeCB C62/75	NC	ng/L	0.00082QCJ	0.038U	0.038U
64-TeCB	NC	ng/L	0.0019QBJ	0.0018QBJ	0.0024QBJ
72-TeCB	NC	ng/L	0.038U	0.038U	0.038U
98-PeCB C102	NC	ng/L	0.038U	0.038U	0.038U
PCB 101	NC	ng/L	0.0086C90J	0.0042BC90J	0.0083BC90J
PCB 102 (BZ)	NC	ng/L	0.038U	0.038U	0.038U
PCB 115 (BZ)	NC	ng/L	0.0079BC110J	0.0053BC110J	0.0059QBC110J
PCB 116 (BZ)	NC	ng/L	0.038U	0.038U	0.038U
PCB 117 (BZ)	NC	ng/L	0.038U	0.038U	0.038U
PCB 118	NC	ng/L	0.0089QBJ	0.0043QBJ	0.007QBJ
PCB 125 (BZ)	NC	ng/L	0.0077QC86J	0.014QBC86J	0.019BC86J
PCB 13 (BZ)	NC	ng/L	0.0024QBC12J	0.0021QBC12J	0.0025QBC12J
PCB 138	NC	ng/L	0.017BC129J	0.0074BC129J	0.0099BC129J
PCB 153	NC	ng/L	0.015BCJ	0.0037QBCJ	0.006QBCJ
PCB 163 (BZ)	NC	ng/L	0.017BC129J	0.0074BC129J	0.0099BC129J
PCB 209	NC	ng/L	0.038U	0.038U	0.038U
PCB 28	NC	ng/L	0.0059BC20J	0.0079QBC20J	0.0093QBC20J
PCB 30	NC	ng/L	0.0048QBC18J	0.0070QBC18J	0.0093QBC18J
PCB 52	NC	ng/L	0.005QBJ	0.0069BJ	0.006QBJ
PCB 75 (BZ)	NC	ng/L	0.00082QC59J	0.038U	0.038U
PCB 91 (BZ)	NC	ng/L	0.038U	0.038U	0.038U
PCB-1	NC	ng/L	0.002BJ	0.0021QBJ	0.038U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 101
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 1668 PCB Congener and Homolog Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
PCB-100	NC	ng/L	0.038U	0.038U	0.038U
PCB-103	NC	ng/L	0.038U	0.038U	0.038U
PCB-104	NC	ng/L	0.038U	0.038U	0.038U
PCB-105	NC	ng/L	0.0037BJ	0.0022QBJ	0.0033BJ
PCB-106/118	NC	ng/L	0.038U	0.038U	0.038U
PCB-107/109	NC	ng/L	0.038U	0.038U	0.038U
PCB-108/112	NC	ng/L	0.038U	0.038U	0.038U
PCB-11	NC	ng/L	0.013QBJ	0.019QBJ	0.038QBJ
PCB-110	NC	ng/L	0.0079BCJ	0.0053BCJ	0.0059QBCJ
PCB-111/115	NC	ng/L	0.038U	0.038U	0.038U
PCB-113	NC	ng/L	0.0086C90J	0.0042BC90J	0.0083BC90J
PCB-114	NC	ng/L	0.038U	0.038U	0.0013J
PCB-119	NC	ng/L	0.0077QC86J	0.014QBC86J	0.019BC86J
PCB-12/13	NC	ng/L	0.0024QBCJ	0.0021QBCJ	0.0025QBCJ
PCB-120	NC	ng/L	0.038U	0.038U	0.038U
PCB-121	NC	ng/L	0.038U	0.038U	0.038U
PCB-122	NC	ng/L	0.038U	0.038U	0.038U
PCB-123	NC	ng/L	0.038U	0.038U	0.038U
PCB-124	NC	ng/L	0.038U	0.038U	0.038U
PCB-126	NC	ng/L	0.038U	0.038U	0.038U
PCB-127	NC	ng/L	0.038U	0.038U	0.038U
PCB-128/162	NC	ng/L	0.0012QCJ	0.038U	0.0022QCJ
PCB-129	NC	ng/L	0.017BCJ	0.0074BCJ	0.0099BCJ
PCB-130	NC	ng/L	0.038U	0.038U	0.038U
PCB-131	NC	ng/L	0.038U	0.038U	0.038U
PCB-132/161	NC	ng/L	0.0028QJ	0.038U	0.0025J
PCB-133/142	NC	ng/L	0.038U	0.038U	0.038U
PCB-134/143	NC	ng/L	0.038U	0.038U	0.038U
PCB-135	NC	ng/L	0.038U	0.038U	0.038U
PCB-136	NC	ng/L	0.038U	0.038U	0.038U
PCB-137	NC	ng/L	0.038U	0.038U	0.038U
PCB-139/149	NC	ng/L	0.038U	0.038U	0.038U
PCB-14	NC	ng/L	0.0015QJ	0.0019QJ	0.038U
PCB-140	NC	ng/L	0.038U	0.038U	0.038U
PCB-141	NC	ng/L	0.0023QJ	0.038U	0.038U
PCB-144	NC	ng/L	0.038U	0.038U	0.038U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
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Table 101
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
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PCB-145	NC	ng/L	0.038U	0.038U	0.038U
PCB-146/165	NC	ng/L	0.0014QJ	0.038U	0.0013QJ
PCB-147	NC	ng/L	0.0059QCJ	0.003QCJ	0.0051CJ
PCB-148	NC	ng/L	0.038U	0.038U	0.038U
PCB-149	NC	ng/L	0.0059QC147J	0.0030QC147J	0.0051C147J
PCB-15	NC	ng/L	0.0044QBJ	0.0041QBJ	0.0046QBJ
PCB-150	NC	ng/L	0.038U	0.038U	0.038U
PCB-151	NC	ng/L	0.038U	0.038U	0.038U
PCB-152	NC	ng/L	0.038U	0.038U	0.038U
PCB-153	NC	ng/L	0.0043QC83J	0.0039BC83J	0.0047QBC83J
PCB-154	NC	ng/L	0.038U	0.038U	0.038U
PCB-155	NC	ng/L	0.038U	0.038U	0.038U
PCB-156	NC	ng/L	0.0037QCJ	0.008QCJ	0.0016QCJ
PCB-157	NC	ng/L	0.0037QC156J	0.0080QC156J	0.0016QC156J
PCB-158/160	NC	ng/L	0.00082QJ	0.038U	0.0017QJ
PCB-159	NC	ng/L	0.038U	0.038U	0.038U
PCB-16/32	NC	ng/L	0.038U	0.038U	0.038U
PCB-166	NC	ng/L	0.0012QC128J	0.038U	0.0022QC128J
PCB-167	NC	ng/L	0.038U	0.038U	0.038U
PCB-168	NC	ng/L	0.015BC153J	0.0037QBC153J	0.0060QBC153J
PCB-169	NC	ng/L	0.038U	0.038U	0.038U
PCB-17	NC	ng/L	0.0032J	0.038U	0.0035BJ
PCB-170	NC	ng/L	0.0039J	0.038U	0.038U
PCB-171	NC	ng/L	0.038U	0.038U	0.038U
PCB-172	NC	ng/L	0.038U	0.038U	0.038U
PCB-173	NC	ng/L	0.038U	0.038U	0.038U
PCB-174	NC	ng/L	0.0021QJ	0.0014QJ	0.0029J
PCB-175	NC	ng/L	0.038U	0.038U	0.038U
PCB-176	NC	ng/L	0.038U	0.038U	0.038U
PCB-177	NC	ng/L	0.038U	0.038U	0.038U
PCB-178	NC	ng/L	0.038U	0.038U	0.038U
PCB-179	NC	ng/L	0.0011SJ	0.038U	0.038U
PCB-18	NC	ng/L	0.0048QBCJ	0.007QBCJ	0.0093QBCJ
PCB-180	NC	ng/L	0.0096CJ	0.0044QBCJ	0.0059BCJ
PCB-181	NC	ng/L	0.038U	0.038U	0.038U
PCB-182/187	NC	ng/L	0.038U	0.038U	0.038U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
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Table 101
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 1668 PCB Congener and Homolog Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
PCB-183	NC	ng/L	0.0037QJ	0.038U	0.038U
PCB-184	NC	ng/L	0.038U	0.038U	0.038U
PCB-185	NC	ng/L	0.00077QC183J	0.038U	0.038U
PCB-186	NC	ng/L	0.038U	0.038U	0.038U
PCB-188	NC	ng/L	0.038U	0.038U	0.038U
PCB-189	NC	ng/L	0.038U	0.038U	0.038U
PCB-19	NC	ng/L	0.0021J	0.038U	0.038U
PCB-190	NC	ng/L	0.038U	0.038U	0.038U
PCB-191	NC	ng/L	0.038U	0.038U	0.038U
PCB-192	NC	ng/L	0.038U	0.038U	0.038U
PCB-193	NC	ng/L	0.0096C180J	0.0044QBC180J	0.0059BC180J
PCB-194	NC	ng/L	0.003J	0.0011BJ	0.0015QBJ
PCB-195	NC	ng/L	0.038U	0.038U	0.038U
PCB-196/203	NC	ng/L	0.038U	0.038U	0.038U
PCB-197	NC	ng/L	0.038U	0.038U	0.038U
PCB-198	NC	ng/L	0.038U	0.038U	0.038U
PCB-199	NC	ng/L	0.038U	0.038U	0.038U
PCB-2	NC	ng/L	0.038U	0.0047BJ	0.0039BJ
PCB-20/21/33	NC	ng/L	0.0059BCJ	0.0079QBCJ	0.0093QBCJ
PCB-200	NC	ng/L	0.038U	0.038U	0.038U
PCB-201	NC	ng/L	0.038U	0.038U	0.038U
PCB-202	NC	ng/L	0.038U	0.038U	0.0013QJ
PCB-204	NC	ng/L	0.038U	0.038U	0.038U
PCB-205	NC	ng/L	0.038U	0.038U	0.038U
PCB-206	NC	ng/L	0.0034QJ	0.038U	0.038U
PCB-207	NC	ng/L	0.038U	0.038U	0.038U
PCB-208	NC	ng/L	0.0014QJ	0.038U	0.038U
PCB-22	NC	ng/L	0.0016QJ	0.003BJ	0.0039BJ
PCB-23	NC	ng/L	0.038U	0.038U	0.038U
PCB-24/27	NC	ng/L	0.038U	0.038U	0.038U
PCB-25	NC	ng/L	0.00073J	0.038U	0.0017QJ
PCB-26	NC	ng/L	0.001QCJ	0.0014QBCJ	0.003BCJ
PCB-27	NC	ng/L	0.038U	0.038U	0.038U
PCB-29	NC	ng/L	0.0010QC26J	0.0014QBC26J	0.0030BC26J
PCB-3	NC	ng/L	0.0019J	0.0048QBJ	0.0048BJ
PCB-31	NC	ng/L	0.005BJ	0.007BJ	0.009BJ

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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
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Table 101
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 1668 PCB Congener and Homolog Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
PCB-32	NC	ng/L	0.0019QJ	0.038U	0.038U
PCB-33	NC	ng/L	0.0031QBC21J	0.0041BC21J	0.0056BC21J
PCB-34	NC	ng/L	0.038U	0.038U	0.038U
PCB-35	NC	ng/L	0.038U	0.038U	0.0015QJ
PCB-36	NC	ng/L	0.038U	0.038U	0.038U
PCB-37	NC	ng/L	0.0015QJ	0.0025BJ	0.0018QBJ
PCB-38	NC	ng/L	0.038U	0.038U	0.038U
PCB-39	NC	ng/L	0.038U	0.038U	0.038U
PCB-4/10	NC	ng/L	0.0051QBJ	0.0038QBJ	0.057U
PCB-40	NC	ng/L	0.0023QCJ	0.038U	0.0025QCJ
PCB-41/64/71/72	NC	ng/L	0.0023QC40J	0.038U	0.0025QC40J
PCB-42/59	NC	ng/L	0.038U	0.038U	0.038U
PCB-43/49	NC	ng/L	0.038U	0.038U	0.038U
PCB-44	NC	ng/L	0.092BC	0.0055QBCJ	0.0093BCJ
PCB-45	NC	ng/L	0.022BCJ	0.038U	0.038U
PCB-46	NC	ng/L	0.038U	0.038U	0.038U
PCB-47	NC	ng/L	0.092BC44	0.0055QBC44J	0.0093BC44J
PCB-48/75	NC	ng/L	0.038U	0.038U	0.038U
PCB-49	NC	ng/L	0.0033QCJ	0.038U	0.0029QBCJ
PCB-5	NC	ng/L	0.0011QBJ	0.0018QBJ	0.038U
PCB-50	NC	ng/L	0.0015QCJ	0.038U	0.038U
PCB-51	NC	ng/L	0.022BC45J	0.038U	0.038U
PCB-53	NC	ng/L	0.0015QC50J	0.038U	0.038U
PCB-54	NC	ng/L	0.038U	0.038U	0.038U
PCB-55	NC	ng/L	0.038U	0.038U	0.038U
PCB-56/60	NC	ng/L	0.0013QJ	0.038U	0.002QJ
PCB-57	NC	ng/L	0.038U	0.038U	0.038U
PCB-58	NC	ng/L	0.038U	0.038U	0.038U
PCB-6	NC	ng/L	0.0021QBJ	0.0032QBJ	0.0036QBJ
PCB-61/70	NC	ng/L	0.0076BCJ	0.0071BCJ	0.0094QBCJ
PCB-62	NC	ng/L	0.00082QC59J	0.038U	0.038U
PCB-63	NC	ng/L	0.038U	0.038U	0.038U
PCB-65	NC	ng/L	0.092BC44	0.0055QBC44J	0.0093BC44J
PCB-66	NC	ng/L	0.0041J	0.0025QBJ	0.0045BJ
PCB-67	NC	ng/L	0.038U	0.038U	0.038U
PCB-68	NC	ng/L	0.012J	0.038U	0.038U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 101
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 1668 PCB Congener and Homolog Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
PCB-69	NC	ng/L	0.0033QC49J	0.038U	0.0029QBC49J
PCB-7/9	NC	ng/L	0.0019QJ	0.002QBJ	0.0014QBJ
PCB-70	NC	ng/L	0.0076BC61J	0.0071BC61J	0.0094QBC61J
PCB-71	NC	ng/L	0.0023QC40J	0.038U	0.0025QC40J
PCB-73	NC	ng/L	0.038U	0.038U	0.038U
PCB-74	NC	ng/L	0.0076BC61J	0.0071BC61J	0.0094QBC61J
PCB-76/66	NC	ng/L	0.0076BC61J	0.0071BC61J	0.0094QBC61J
PCB-77	NC	ng/L	0.0012QBJ	0.038U	0.038U
PCB-78	NC	ng/L	0.038U	0.038U	0.038U
PCB-79	NC	ng/L	0.038U	0.038U	0.038U
PCB-8	NC	ng/L	0.0053BJ	0.0091QBJ	0.0092QBJ
PCB-80	NC	ng/L	0.038U	0.038U	0.038U
PCB-81	NC	ng/L	0.038U	0.038U	0.038U
PCB-82	NC	ng/L	0.038U	0.038U	0.038U
PCB-83	NC	ng/L	0.0043QCJ	0.0039BCJ	0.0047QBCJ
PCB-84/92	NC	ng/L	0.038U	0.038U	0.038U
PCB-85/116	NC	ng/L	0.038U	0.038U	0.038U
PCB-86	NC	ng/L	0.0077QCJ	0.014QBCJ	0.019BCJ
PCB-87	NC	ng/L	0.0077QC86J	0.014QBC86J	0.019BC86J
PCB-88/91	NC	ng/L	0.038U	0.038U	0.038U
PCB-89	NC	ng/L	0.038U	0.038U	0.038U
PCB-9	NC	ng/L	0.0019QBJ	0.0025QBJ	0.038U
PCB-90/101	NC	ng/L	0.0086CJ	0.0042BCJ	0.0083BCJ
PCB-92	NC	ng/L	0.038U	0.038U	0.038U
PCB-93	NC	ng/L	0.038U	0.038U	0.038U
PCB-94	NC	ng/L	0.038U	0.038U	0.038U
PCB-95/98/102	NC	ng/L	0.0059J	0.038U	0.0042QBJ
PCB-96	NC	ng/L	0.038U	0.038U	0.038U
PCB-97	NC	ng/L	0.0077QC86J	0.014QBC86J	0.019BC86J
Total Di-CB	NC	ng/L	0.040QBJ	0.051EMPCU	0.059EMPCU
Total Hepta-CB	NC	ng/L	0.021SJQ	0.0076EMPCUJ	0.012EMPCUJ
Total Hexa-CB	NC	ng/L	0.050QJB	0.022EMPCU	0.030EMPCUJ
Total Mono-CB	NC	ng/L	0.0038BJ	0.012EMPCU	0.0087U
Total Nona-CB	NC	ng/L	0.0049QJ	0.038U	0.038U
Total Octa-CB	NC	ng/L	0.0030J	0.0011U	0.0028EMPCU
Total Penta-CB	NC	ng/L	0.047JQB	0.034EMPCUJ	0.054EMPCUJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 101
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 1668 PCB Congener and Homolog Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
Total Tetra-CB	NC	ng/L	0.15QB	0.024EMPCU	0.039EMPCU
Total Tri-CB	NC	ng/L	0.031JQB	0.033EMPCUJ	0.049EMPCUJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 102
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3099-02 WB915-GRAVEL PIT 11/28/2012 Regular sample	SB915-3099-03 WB915-INTERBED 1 11/28/2012 Regular sample	SB915-3099-05 WB915-INTERBED 2 11/28/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	2U	NA	NA	NA
ANTIMONY	NC	NC	mg/L	0.1U	NA	NA	NA
ARSENIC	0.15(S)	NC	mg/L	0.1U	NA	NA	NA
BARIUM	NC	NC	mg/L	2U	NA	NA	NA
BERYLLIUM	1.1(S)	NC	mg/L	0.04U	NA	NA	NA
BORON	10(S)	NC	mg/L	2U	NA	NA	NA
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	240	68	1200	1300
CHROMIUM	NC	936.22	mg/L	0.05U	NA	NA	NA
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	0.001R	NA	NA	NA
COBALT	0.005(S)	NC	mg/L	0.5U	NA	NA	NA
COPPER	NC	126.28	mg/L	0.25U	NA	NA	NA
CYANIDE	0.0052(S)	NC	mg/L	0.01U	NA	NA	NA
IRON	0.3(S)	NC	mg/L	1U	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.15U	0.15U	0.15U	0.15U
MERCURY	0.0000007(S)	NC	mg/L	[0.0000052]	NA	NA	NA
NICKEL	NC	714.24	mg/L	0.4U	NA	NA	NA
POTASSIUM	NC	NC	mg/L	50U	50U	50U	50U
SELENIUM	0.0046(S)	NC	mg/L	0.05U	NA	NA	NA
SILVER	0.0001(S)	NC	mg/L	0.05U	NA	NA	NA
SODIUM	NC	NC	mg/L	170	50U	670	730
THALLIUM	0.008(S)	NC	mg/L	0.1U	NA	NA	NA
TIN	NC	NC	mg/L	1U	NA	NA	NA
VANADIUM	0.014(S)	NC	mg/L	0.5U	NA	NA	NA
ZINC	NC	1148.99	mg/L	0.2U	NA	NA	NA

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blank.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds NYS Class C Fresh Surface Water Criteria obtained from NYSDEC Ambient Water Quality Standard and Guidance Values (June 1998, April 2000 Addendum).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 102
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3099-06 WB915-INTERBED 3 11/28/2012 Regular sample	SB915-3099-01 WB915-IRON BROOK 11/28/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	NA	NA	2U	2U
ANTIMONY	NC	NC	mg/L	NA	NA	0.1U	0.1U
ARSENIC	0.15(S)	NC	mg/L	NA	NA	0.1U	0.1U
BARIUM	NC	NC	mg/L	NA	NA	2U	2U
BERYLLIUM	1.1(S)	NC	mg/L	NA	NA	0.04U	0.04U
BORON	10(S)	NC	mg/L	NA	NA	2U	2U
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	1100	580	680	1200
CHROMIUM	NC	936.22	mg/L	NA	NA	0.05U	0.05U
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	NA	NA	0.001U	0.0013J
COBALT	0.005(S)	NC	mg/L	NA	NA	0.5U	0.5U
COPPER	NC	126.28	mg/L	NA	NA	0.25U	0.25U
CYANIDE	0.0052(S)	NC	mg/L	NA	NA	0.01U	0.01U
IRON	0.3(S)	NC	mg/L	1U	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.15U	0.15U	0.15U	0.15U
MERCURY	0.0000007(S)	NC	mg/L	NA	NA	[0.00000072]	[0.00000099]
NICKEL	NC	714.24	mg/L	NA	NA	0.4U	0.4U
POTASSIUM	NC	NC	mg/L	50U	50U	50U	50U
SELENIUM	0.0046(S)	NC	mg/L	NA	NA	0.05U	0.05U
SILVER	0.0001(S)	NC	mg/L	NA	NA	0.05U	0.05U
SODIUM	NC	NC	mg/L	660	750	380	990
THALLIUM	0.008(S)	NC	mg/L	NA	NA	0.1U	0.1U
TIN	NC	NC	mg/L	NA	NA	1U	1U
VANADIUM	0.014(S)	NC	mg/L	NA	NA	0.5U	0.5U
ZINC	NC	1148.99	mg/L	NA	NA	0.2U	0.2U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blank.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds NYS Class C Fresh Surface Water Criteria obtained from NYSDEC Ambient Water Quality Standard and Guidance Values (June 1998, April 2000 Addendum).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 102
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3099-07 WB915-POND AREA N OF WB11 11/28/2012 Regular sample	SB915-3097-11 WB915-REACH A 11/27/2012 Regular sample	SB915-3097-12 WB915-REACH B 11/27/2012 Regular sample	SB915-3097-09 WB915-REACH C 11/27/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	NA	NA	NA	NA
ANTIMONY	NC	NC	mg/L	NA	NA	NA	NA
ARSENIC	0.15(S)	NC	mg/L	NA	NA	NA	NA
BARIUM	NC	NC	mg/L	NA	NA	NA	NA
BERYLLIUM	1.1(S)	NC	mg/L	NA	NA	NA	NA
BORON	10(S)	NC	mg/L	NA	NA	NA	NA
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	930	230	230	250
CHROMIUM	NC	936.22	mg/L	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	NA	NA	NA	NA
COBALT	0.005(S)	NC	mg/L	NA	NA	NA	NA
COPPER	NC	126.28	mg/L	NA	NA	NA	NA
CYANIDE	0.0052(S)	NC	mg/L	NA	NA	NA	NA
IRON	0.3(S)	NC	mg/L	1U	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.15U	0.15U	0.15U	0.15U
MERCURY	0.0000007(S)	NC	mg/L	NA	NA	NA	NA
NICKEL	NC	714.24	mg/L	NA	NA	NA	NA
POTASSIUM	NC	NC	mg/L	53	50U	50U	50U
SELENIUM	0.0046(S)	NC	mg/L	NA	NA	NA	NA
SILVER	0.0001(S)	NC	mg/L	NA	NA	NA	NA
SODIUM	NC	NC	mg/L	520	50U	50U	76
THALLIUM	0.008(S)	NC	mg/L	NA	NA	NA	NA
TIN	NC	NC	mg/L	NA	NA	NA	NA
VANADIUM	0.014(S)	NC	mg/L	NA	NA	NA	NA
ZINC	NC	1148.99	mg/L	NA	NA	NA	NA

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blank.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds NYS Class C Fresh Surface Water Criteria obtained from NYSDEC Ambient Water Quality Standard and Guidance Values (June 1998, April 2000 Addendum).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 102
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3097-06 WB915-REACH D 11/27/2012 Regular sample	SB915-3097-05 WB915-REACH E 11/27/2012 Regular sample	SB915-3097-04 WB915-REACH F 11/27/2012 Regular sample	SB915-3097-10 WB915-REF REACH 11/27/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	NA	NA	NA	NA
ANTIMONY	NC	NC	mg/L	NA	NA	NA	NA
ARSENIC	0.15(S)	NC	mg/L	NA	NA	NA	NA
BARIUM	NC	NC	mg/L	NA	NA	NA	NA
BERYLLIUM	1.1(S)	NC	mg/L	NA	NA	NA	NA
BORON	10(S)	NC	mg/L	NA	NA	NA	NA
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	270	380	360	230
CHROMIUM	NC	936.22	mg/L	NA	NA	NA	NA
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	NA	NA	NA	NA
COBALT	0.005(S)	NC	mg/L	NA	NA	NA	NA
COPPER	NC	126.28	mg/L	NA	NA	NA	NA
CYANIDE	0.0052(S)	NC	mg/L	NA	NA	NA	NA
IRON	0.3(S)	NC	mg/L	1U	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.15U	0.15U	0.15U	0.15U
MERCURY	0.0000007(S)	NC	mg/L	NA	NA	NA	NA
NICKEL	NC	714.24	mg/L	NA	NA	NA	NA
POTASSIUM	NC	NC	mg/L	50U	50U	50U	50U
SELENIUM	0.0046(S)	NC	mg/L	NA	NA	NA	NA
SILVER	0.0001(S)	NC	mg/L	NA	NA	NA	NA
SODIUM	NC	NC	mg/L	99	190	180	50U
THALLIUM	0.008(S)	NC	mg/L	NA	NA	NA	NA
TIN	NC	NC	mg/L	NA	NA	NA	NA
VANADIUM	0.014(S)	NC	mg/L	NA	NA	NA	NA
ZINC	NC	1148.99	mg/L	NA	NA	NA	NA

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blank.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds NYS Class C Fresh Surface Water Criteria obtained from NYSDEC Ambient Water Quality Standard and Guidance Values (June 1998, April 2000 Addendum).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 102
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3097-01 WB915-RET POND1 11/27/2012 Regular sample	SB915-3097-02 WB915-RET POND2-1 11/27/2012 Regular sample	SB915-3097-03 WB915-RET POND2-2 11/27/2012 Regular sample
ALUMINUM	0.1(S)	NC	mg/L	NA	NA	NA
ANTIMONY	NC	NC	mg/L	NA	NA	NA
ARSENIC	0.15(S)	NC	mg/L	NA	NA	NA
BARIUM	NC	NC	mg/L	NA	NA	NA
BERYLLIUM	1.1(S)	NC	mg/L	NA	NA	NA
BORON	10(S)	NC	mg/L	NA	NA	NA
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	2100	1800	1900
CHROMIUM	NC	936.22	mg/L	NA	NA	NA
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	NA	NA	NA
COBALT	0.005(S)	NC	mg/L	NA	NA	NA
COPPER	NC	126.28	mg/L	NA	NA	NA
CYANIDE	0.0052(S)	NC	mg/L	NA	NA	NA
IRON	0.3(S)	NC	mg/L	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.15U	0.15U	0.15U
MERCURY	0.0000007(S)	NC	mg/L	NA	NA	NA
NICKEL	NC	714.24	mg/L	NA	NA	NA
POTASSIUM	NC	NC	mg/L	75	68	72
SELENIUM	0.0046(S)	NC	mg/L	NA	NA	NA
SILVER	0.0001(S)	NC	mg/L	NA	NA	NA
SODIUM	NC	NC	mg/L	1700	1500	1600
THALLIUM	0.008(S)	NC	mg/L	NA	NA	NA
TIN	NC	NC	mg/L	NA	NA	NA
VANADIUM	0.014(S)	NC	mg/L	NA	NA	NA
ZINC	NC	1148.99	mg/L	NA	NA	NA

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blank.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds NYS Class C Fresh Surface Water Criteria obtained from NYSDEC Ambient Water Quality Standard and Guidance Values (June 1998, April 2000 Addendum).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 103
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 8290 Dioxins/Furans Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	0.0000006(S)	ng/L	[0.0015EMPC,J]	0.048U	[0.00069EMPCJ]
1,2,3,4,6,7,8-HPCDF	0.0000006(S)	ng/L	[0.00066EMPC,J]	[0.00046EMPCJ]	[0.00015EMPCJ]
1,2,3,4,7,8,9-HPCDF	0.0000006(S)	ng/L	[0.00075EMPC,J]	0.048U	[0.00022EMPCJ]
1,2,3,4,7,8-HXCDD	0.0000006(S)	ng/L	0.095U	0.048U	0.048U
1,2,3,4,7,8-HXCDF	0.0000006(S)	ng/L	0.095U	0.048U	0.048U
1,2,3,6,7,8-HXCDD	0.0000006(S)	ng/L	0.095U	0.048U	0.048U
1,2,3,6,7,8-HXCDF	0.0000006(S)	ng/L	0.095U	0.048U	[0.00012EMPCJ]
1,2,3,7,8,9-HXCDD	0.0000006(S)	ng/L	0.095U	0.048U	0.048U
1,2,3,7,8,9-HXCDF	0.0000006(S)	ng/L	0.095U	0.048U	0.048U
1,2,3,7,8-PECDD	0.0000006(S)	ng/L	[0.00064EMPC,J]	0.048U	[0.0004EMPCJ]
1,2,3,7,8-PECDF	0.0000006(S)	ng/L	0.095U	0.048U	0.048U
2,3,4,6,7,8-HXCDF	0.0000006(S)	ng/L	[0.0006EMPC,J]	0.048U	[0.00019EMPCJ]
2,3,4,7,8-PECDF	0.0000006(S)	ng/L	[0.00058EMPC,J]	0.048U	0.048U
2,3,7,8-TCDD	0.0000031(S)	ng/L	0.019U	0.0096U	0.0095U
2,3,7,8-TCDF	0.0000006(S)	ng/L	0.019U	0.0096U	0.0095U
OCDD	0.0000006(S)	ng/L	[0.0097EMPC,J]	[0.0028EMPCJ]	[0.0033EMPCJ]
OCDF	0.0000006(S)	ng/L	[0.0021EMPC,J]	[0.00086EMPCJ]	[0.0015EMPCJ]
TOTAL HPCDD	NC	ng/L	0.003JQB	0.00059QJ	0.0012QJ
TOTAL HPCDF	NC	ng/L	0.0019QJB	0.00046QBJ	0.00037QBJ
TOTAL HXCDD	NC	ng/L	0.00058QJ	0.00039QJ	0.048U
TOTAL HXCDF	NC	ng/L	0.0006QBJ	0.048U	0.00068QJB
TOTAL PECDD	NC	ng/L	0.0026QJB	0.048U	0.0004BJ
TOTAL PECDF	NC	ng/L	0.00089QJB	0.048U	0.048U
TOTAL TCDD	NC	ng/L	0.00016QBJ	0.0096U	0.0095U
Total TCDF	NC	ng/L	0.0016QBJ	0.0096U	0.0095U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
EMPC = Estimate maximum possible concentration.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class GA standard (S) or guidance value (G).

Table 104
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3099-02 WB915-GRAVEL PIT 11/28/2012 Regular sample	SB915-3099-03 WB915-INTERBED 1 11/28/2012 Regular sample	SB915-3099-05 WB915-INTERBED 2 11/28/2012 Regular sample	SB915-3099-06 WB915-INTERBED 3 11/28/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	180	110	130	95	87
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	180	110	130	95	87
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0UJ	4.3J	2.0UJ	3.1J
BROMIDE	NC	mg/L	0.50U	0.50U	5.0U	5.0U	5.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	55	24	180	140	360
CHLORIDE	NC	mg/L	590	110	3200	3800	3900
HARDNESS (AS CACO3)	NC	mg/L	730	290	3400	3200	3900
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.10UJ	0.11	0.10U	0.10U	0.10U
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.22	0.20U	2.0U	2.0U	2.0U
NITROGEN, NITRITE	NC	mg/L	0.050U	NA	NA	NA	NA
SULFATE	NC	mg/L	70	140	77	62	64
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	1200	540	5500	6100	6000
TOTAL ORGANIC CARBON	NC	mg/L	5.1	5.4	2.8	2.1	2.4
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.010U	0.086	0.018	0.67	0.041

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 104
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3099-01 WB915-IRON BROOK 11/28/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample	SB915-3099-07 WB915-POND AREA N OF WB11 11/28/2012 Regular sample	SB915-3097-11 WB915-REACH A 11/27/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	290	140	140	48J	230
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	290	140	140	48J	230
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0UJ	2UJ	6.0U	2.0UJ	6.0U
BROMIDE	NC	mg/L	2.5U	2.5U	5.0U	2.5U	0.50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	260	140	320	380	21
CHLORIDE	NC	mg/L	2200	2300	4800	2600	72
HARDNESS (AS CACO3)	NC	mg/L	1900	2300	4300	2500	650
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.29	0.1	0.10U	0.31J	0.10U
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	1.0U	1U	2.0U	1.0U	0.56
NITROGEN, NITRITE	NC	mg/L	NA	0.25U	0.50U	NA	NA
SULFATE	NC	mg/L	480	100	330	19J	390
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	4300	4000	8600	4800	820
TOTAL ORGANIC CARBON	NC	mg/L	1.8	1.6	3	5.7J	1.6
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.057	0.13J	0.21J	0.26J	0.14J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 104
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3097-12 WB915-REACH B 11/27/2012 Regular sample	SB915-3097-09 WB915-REACH C 11/27/2012 Regular sample	SB915-3097-06 WB915-REACH D 11/27/2012 Regular sample	SB915-3097-05 WB915-REACH E 11/27/2012 Regular sample	SB915-3097-04 WB915-REACH F 11/27/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	230	220	220	220	220
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	230	220	220	220	220
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	6.0U	6.0U	6.0U	6.0U	6.0U
BROMIDE	NC	mg/L	0.50U	0.50U	0.50U	1.3U	1.3U
CHEMICAL OXYGEN DEMAND	NC	mg/L	51	33	29	44	41
CHLORIDE	NC	mg/L	73	150	220	530	560
HARDNESS (AS CACO3)	NC	mg/L	660	690	760	1000	1000
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.11	0.22	0.33	0.78	0.68
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.55	2.2	0.61	0.61	0.61
NITROGEN, NITRITE	NC	mg/L	NA	NA	NA	NA	NA
SULFATE	NC	mg/L	390	380	340	340	320
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	760	860	1000	1500	1600
TOTAL ORGANIC CARBON	NC	mg/L	1.6	1.9	2	1.9	1.8
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.23J	0.073J	0.011J	0.079J	0.18J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 104
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3097-10 WB915-REF REACH 11/27/2012 Regular sample	SB915-3097-01 WB915-RET POND1 11/27/2012 Regular sample	SB915-3097-02 WB915-RET POND2-1 11/27/2012 Regular sample	SB915-3097-03 WB915-RET POND2-2 11/27/2012 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	240	80	110	110
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	240	80	110	110
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	6.0U	2.0U	6.0U	6.0U
BROMIDE	NC	mg/L	0.50U	5.0U	5.0U	5.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	20	920	380	230
CHLORIDE	NC	mg/L	73	5900	4600	5400
HARDNESS (AS CACO3)	NC	mg/L	650	5700	4800	4700
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.14	1.8	3.6	3.6
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.56	2.0U	3.5	3.3
NITROGEN, NITRITE	NC	mg/L	NA	NA	NA	NA
SULFATE	NC	mg/L	380	300	440	420
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	810	11000	9600	10000
TOTAL ORGANIC CARBON	NC	mg/L	1.7	1.0U	1.0U	1.0U
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.083J	0.063J	0.010U	0.010U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 105
Honeywell
Wastebeds 9-15 Closure Investigation
Round 3 Surface Water
Method 8290 Dioxins/Furans Equivalence Summary Data

Parameter Name	TEF	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3106-01 SB915-OUT-019 12/12/2012 Regular sample	SB915-3100-01 WB915-OUT-011 11/28/2012 Regular sample	SB915-3098-01 WB915-OUT-017 11/27/2012 Regular sample
1,2,3,4,6,7,8-HPCDD	0.01	NC	ng/L	0.000015	---	0.0000069
1,2,3,4,6,7,8-HPCDF	0.01	NC	ng/L	0.0000066	0.0000046	0.0000015
1,2,3,4,7,8,9-HPCDF	0.01	NC	ng/L	0.0000075	---	0.0000022
1,2,3,4,7,8-HXCDD	0.1	NC	ng/L	---	---	---
1,2,3,4,7,8-HXCDF	0.1	NC	ng/L	---	---	---
1,2,3,6,7,8-HXCDD	0.1	NC	ng/L	---	---	---
1,2,3,6,7,8-HXCDF	0.1	NC	ng/L	---	---	0.000012
1,2,3,7,8,9-HXCDD	0.1	NC	ng/L	---	---	---
1,2,3,7,8,9-HXCDF	0.1	NC	ng/L	---	---	---
1,2,3,7,8-PECDD	1	NC	ng/L	0.00064	---	0.0004
1,2,3,7,8-PECDF	0.03	NC	ng/L	---	---	---
2,3,4,6,7,8-HXCDF	0.1	NC	ng/L	0.00006	---	0.000019
2,3,4,7,8-PECDF	0.3	NC	ng/L	0.000174	---	---
2,3,7,8-TCDD	1	NC	ng/L	---	---	---
2,3,7,8-TCDF	0.1	NC	ng/L	---	---	---
OCDD	0.0003	NC	ng/L	0.00000291	0.00000084	0.00000099
OCDF	0.0003	NC	ng/L	0.00000063	0.000000258	0.00000045
Total TEQ	NC	0.0000006(S)	ng/L	[0.00090664]	[0.000005698]	[0.00044304]

NOTES:
TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.
--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-05 WB915-INTERBED 2 02/07/2013 Regular sample	SB915-3107-08 WB915-IRON BROOK 02/06/2013 Regular sample	SB915-3107-05 WB915-REACH B 02/06/2013 Regular sample	SB915-3107-04 WB915-REACH C 02/06/2013 Regular sample	SB915-3107-03 WB915-REACH D 02/06/2013 Regular sample	SB915-3107-02 WB915-REACH E 02/06/2013 Regular sample
TOTAL PCBs	ng/L	621.72	225.514	199.184	325.98	285.695	313.497
10-DiCB	ng/L	0.24Q,J	0.21Q,J	0.083Q,J	0.25Q,J	0.15Q,J	0.15Q,J
109-PeCB	ng/L	1.6B,C86,J	0.67Q,B,C86,J	0.67B,C86,J	2.5B,C86,J	0.96B,C86,J	1.3B,C86,J
112-PeCB	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
142-HxCB	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
143-HxCB	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
160-HxCB	ng/L	1.9C129,J	0.89C129,J	0.96C129,J	1.8C129,J	0.84C129,J	1.3C129,J
161-HxCB	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
162-HxCB	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
164-HxCB	ng/L	0.12J	2.1U	2.5U	5.4U	2.1U	0.093Q,J
165-HxCB	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
2,3',4,4'-TETRACHLOROBIPHENYL	ng/L	2.6	0.78J	0.65Q,J	1.4J	0.77Q,J	1Q,J
203-OcCB	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
21-TrCB C33	ng/L	15B,C	6.5B,C	3.3B,C	4.8B,C,J	5.1B,C	5.7B,C
59-TeCB C62/75	ng/L	1.9C,J	0.52C,J	0.49Q,C,J	0.72C,J	0.85C,J	0.93C,J
64-TeCB	ng/L	7	1.8J	2.4J	4J	3.5	4
72-TeCB	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
98-PeCB C102	ng/L	0.19C,J	2.1U	0.069Q,C,J	5.4U	2.1U	2.4U
PCB 101	ng/L	2.8C90	1.5C90,J	1.3C90,J	4.1C90,J	1.6C90,J	2.3C90,J
PCB 102 (BZ)	ng/L	0.19C98,J	2.1U	0.069Q,C98,J	5.4U	2.1U	2.4U
PCB 115 (BZ)	ng/L	2C110,J	1.1C110,J	0.96C110,J	3.9C110,J	1.1C110,J	1.8C110,J
PCB 116 (BZ)	ng/L	0.46C85,J	0.32C85,J	0.15Q,C85,J	0.76C85,J	2.1U	0.29Q,C85,J
PCB 117 (BZ)	ng/L	0.46C85,J	0.32C85,J	0.15Q,C85,J	0.76C85,J	2.1U	0.29Q,C85,J
PCB 118	ng/L	3.8	1.4J	1.5J	2.4Q,J	1.6J	2.4
PCB 125 (BZ)	ng/L	1.6B,C86,J	0.67Q,B,C86,J	0.67B,C86,J	2.5B,C86,J	0.96B,C86,J	1.3B,C86,J
PCB 13 (BZ)	ng/L	1.1Q,C12,J	0.73Q,C12,J	0.68C12,J	0.55Q,C12,J	0.92Q,C12,J	0.47C12,J
PCB 138	ng/L	1.9C129,J	0.89C129,J	0.96C129,J	1.8C129,J	0.84C129,J	1.3C129,J
PCB 153	ng/L	1.3B,C,J	0.55B,C,J	0.74B,C,J	1.4Q,B,C,J	0.71B,C,J	1Q,B,C,J
PCB 163 (BZ)	ng/L	1.9C129,J	0.89C129,J	0.96C129,J	1.8C129,J	0.84C129,J	1.3C129,J
PCB 209	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB 28	ng/L	26B,C20	12B,C20	6.2B,C20	11B,C20	11B,C20	12B,C20
PCB 30	ng/L	16B,C18	5.8B,C18	4.4B,C18	9.2B,C18	5.9B,C18	7.2B,C18
PCB 52	ng/L	29B	9.1B	10B	14B	17B	19B
PCB 75 (BZ)	ng/L	1.9C59,J	0.52C59,J	0.49Q,C59,J	0.72C59,J	0.85C59,J	0.93C59,J
PCB 91 (BZ)	ng/L	0.4Q,C88,J	2.1U	0.2Q,C88,J	0.58Q,C88,J	0.25C88,J	0.4Q,C88,J
PCB-1	ng/L	1.8B,J	0.97B,J	0.83B,J	1.3B,J	1.2B,J	1S,B,J
PCB-100	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-05 WB915-INTERBED 2 02/07/2013 Regular sample	SB915-3107-08 WB915-IRON BROOK 02/06/2013 Regular sample	SB915-3107-05 WB915-REACH B 02/06/2013 Regular sample	SB915-3107-04 WB915-REACH C 02/06/2013 Regular sample	SB915-3107-03 WB915-REACH D 02/06/2013 Regular sample	SB915-3107-02 WB915-REACH E 02/06/2013 Regular sample
PCB-103	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-104	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-105	ng/L	1.4J	0.57J	0.56Q,J	1.1J	0.66J	1.1J
PCB-106/118	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-107/109	ng/L	2.4U	2.1U	0.17J	0.2Q,J	0.12Q,J	0.19J
PCB-108/107	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-11	ng/L	30B	21B	19B	9.4B	32B	17B
PCB-110	ng/L	2C,J	1.1C,J	0.96C,J	3.9C,J	1.1C,J	1.8C,J
PCB-111	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-113	ng/L	2.8C90	1.5C90,J	1.3C90,J	4.1C90,J	1.6C90,J	2.3C90,J
PCB-114	ng/L	2.4U	2.1U	2.5U	5.4U	0.14Q,J	2.4U
PCB-119	ng/L	1.6B,C86,J	0.67Q,B,C86,J	0.67B,C86,J	2.5B,C86,J	0.96B,C86,J	1.3B,C86,J
PCB-12	ng/L	1.1Q,C,J	0.73Q,C,J	0.68C,J	0.55Q,C,J	0.92Q,C,J	0.47C,J
PCB-120	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-121	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-122	ng/L	0.22Q,J	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-123	ng/L	2.4U	2.1U	0.091Q,J	5.4U	2.1U	2.4U
PCB-124	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-126	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-127	ng/L	2.4U	2.1U	2.5U	5.4U	0.11Q,J	2.4U
PCB-128	ng/L	0.35C,J	2.1U	0.17Q,C,J	0.2Q,C,J	2.1U	0.18Q,C,J
PCB-129	ng/L	1.9C,J	0.89C,J	0.96C,J	1.8C,J	0.84C,J	1.3C,J
PCB-130	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-131	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-132	ng/L	0.5J	2.1U	0.19Q,J	0.59J	0.21Q,J	0.35J
PCB-133	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-134	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-135	ng/L	0.59Q,C,J	0.39Q,C,J	0.41C,J	0.68Q,C,J	0.35Q,C,J	2.4U
PCB-136	ng/L	0.32Q,J	2.1U	0.15J	5.4U	2.1U	0.2Q,J
PCB-137	ng/L	0.13Q,J	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-139	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-14	ng/L	0.07Q,J	0.084Q,J	0.066Q,J	5.4U	0.048Q,J	0.07Q,J
PCB-140	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-141	ng/L	0.31J	2.1U	2.5U	0.42J	2.1U	0.25J
PCB-144	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-145	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-146	ng/L	2.4U	2.1U	2.5U	0.27J	2.1U	2.4U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-05 WB915-INTERBED 2 02/07/2013 Regular sample	SB915-3107-08 WB915-IRON BROOK 02/06/2013 Regular sample	SB915-3107-05 WB915-REACH B 02/06/2013 Regular sample	SB915-3107-04 WB915-REACH C 02/06/2013 Regular sample	SB915-3107-03 WB915-REACH D 02/06/2013 Regular sample	SB915-3107-02 WB915-REACH E 02/06/2013 Regular sample
PCB-147	ng/L	1.1C,J	0.37Q,C,J	0.55C,J	1.8C,J	0.54Q,C,J	0.71Q,C,J
PCB-148	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-149	ng/L	1.1C147,J	0.37Q,C147,J	0.55C147,J	1.8C147,J	0.54Q,C147,J	0.71Q,C147,J
PCB-15	ng/L	3.9B	1.5B,J	1.2Q,B,J	1.5Q,B,J	1.6B,J	1.9B,J
PCB-150	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-151	ng/L	0.59Q,C135,J	0.39Q,C135,J	0.41C135,J	0.68Q,C135,J	0.35Q,C135,J	2.4U
PCB-152	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-153	ng/L	1.1Q,C83,J	0.71C83,J	0.7C83,J	2.4C83,J	0.83C83,J	1C83,J
PCB-154	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-155	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-156	ng/L	0.29C,J	2.1U	0.12Q,C,J	5.4U	2.1U	0.25C,J
PCB-157	ng/L	0.29C156,J	2.1U	0.12Q,C156,J	5.4U	2.1U	0.25C156,J
PCB-158	ng/L	0.18Q,J	0.15J	0.15Q,J	5.4U	2.1U	0.15Q,J
PCB-159	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-16	ng/L	6.7	2.4	1.7J	3Q,J	2J	2.7
PCB-166	ng/L	0.35C128,J	2.1U	0.17Q,C128,J	0.2Q,C128,J	2.1U	0.18Q,C128,J
PCB-167	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-168	ng/L	1.3B,C153,J	0.55B,C153,J	0.74B,C153,J	1.4Q,B,C153,J	0.71B,C153,J	1Q,B,C153,J
PCB-169	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-17	ng/L	7.2	2.8	1.9J	3.9J	2.5	3.1
PCB-170	ng/L	0.2Q,J	2.1U	0.19Q,J	5.4U	2.1U	0.2J
PCB-171	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-172	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-173	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-174	ng/L	0.22Q,J	2.1U	0.19Q,J	5.4U	0.2J	2.4U
PCB-175	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-176	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-177	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-178	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-179	ng/L	2.4U	2.1U	2.5U	0.11Q,J	0.12Q,J	2.4U
PCB-18	ng/L	16B,C	5.8B,C	4.4B,C	9.2B,C	5.9B,C	7.2B,C
PCB-180	ng/L	0.62C,J	0.29Q,C,J	0.42C,J	0.38Q,C,J	0.26Q,C,J	0.55Q,C,J
PCB-181	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-182	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-183	ng/L	0.2C,J	2.1U	0.32J	5.4U	2.1U	2.4U
PCB-184	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-185	ng/L	0.2C183,J	2.1U	0.29C183,J	5.4U	2.1U	2.4U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-05 WB915-INTERBED 2 02/07/2013 Regular sample	SB915-3107-08 WB915-IRON BROOK 02/06/2013 Regular sample	SB915-3107-05 WB915-REACH B 02/06/2013 Regular sample	SB915-3107-04 WB915-REACH C 02/06/2013 Regular sample	SB915-3107-03 WB915-REACH D 02/06/2013 Regular sample	SB915-3107-02 WB915-REACH E 02/06/2013 Regular sample
PCB-186	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-188	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-189	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-19	ng/L	1.7J	0.76J	0.48J	1.3J	0.69Q,J	0.86J
PCB-190	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-191	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-192	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-193	ng/L	0.62C180,J	0.29Q,C180,J	0.42C180,J	0.38Q,C180,J	0.26Q,C180,J	0.55Q,C180,J
PCB-194	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-195	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-196/203	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-197	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-198	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-199	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-2	ng/L	0.93J	0.61J	0.49J	0.47J	1.1J	0.49Q,J
PCB-20	ng/L	26B,C	12B,C	6.2B,C	11B,C	11B,C	12B,C
PCB-200	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-201	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-202	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-204	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-205	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-206	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-207	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-208	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-22	ng/L	8.3B	3.6B	2.1B,J	3.4B,J	3.3B	3.7B
PCB-23	ng/L	0.086Q,J	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-24	ng/L	0.27Q,J	0.1Q,J	0.078J	5.4U	2.1U	0.086Q,J
PCB-25	ng/L	1.9J	0.9J	0.53J	0.92J	0.85Q,J	0.82Q,J
PCB-26	ng/L	4.1C	2.4C	1.1C,J	1.8C,J	2.1C,J	2.2C,J
PCB-27	ng/L	0.93J	0.39Q,J	0.27J	0.56J	0.35Q,J	0.41J
PCB-29	ng/L	4.1C26	2.4C26	1.1C26,J	1.8C26,J	2.1C26,J	2.2C26,J
PCB-3	ng/L	2.9B	1.2Q,B,J	1.3B,J	0.87Q,B,J	1.8Q,B,J	1.3Q,B,J
PCB-31	ng/L	22B	11B	5.5B	9.7B	9.7B	10B
PCB-32	ng/L	4.9	1.5J	1.3J	2.5J	1.5J	1.9J
PCB-33	ng/L	15B,C21	6.5B,C21	3.3B,C21	4.8B,C21,J	5.1B,C21	5.7B,C21
PCB-34	ng/L	0.13J	0.13J	2.5U	5.4U	2.1U	2.4U
PCB-35	ng/L	0.52Q,J	0.31J	0.11Q,J	5.4U	0.29J	0.24Q,J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-05 WB915-INTERBED 2 02/07/2013 Regular sample	SB915-3107-08 WB915-IRON BROOK 02/06/2013 Regular sample	SB915-3107-05 WB915-REACH B 02/06/2013 Regular sample	SB915-3107-04 WB915-REACH C 02/06/2013 Regular sample	SB915-3107-03 WB915-REACH D 02/06/2013 Regular sample	SB915-3107-02 WB915-REACH E 02/06/2013 Regular sample
PCB-36	ng/L	0.21J	2.1U	0.05Q,J	5.4U	2.1U	0.13J
PCB-37	ng/L	3.4Q	1.2Q,J	0.7Q,J	1.6Q,J	1.1Q,J	1.6Q,J
PCB-38	ng/L	2.4U	2.1U	0.053Q,J	5.4U	2.1U	2.4U
PCB-39	ng/L	0.14J	2.1U	2.5U	5.4U	0.097J	2.4U
PCB-4	ng/L	4.9	3.3	1.7Q,J	3.3Q,J	2.1J	2.5Q,J
PCB-40	ng/L	12C	2.7C	3.1C	4.6C,J	4.8C	6C
PCB-41	ng/L	12C40	2.7C40	3.1C40	4.6C40,J	4.8C40	6C40
PCB-42	ng/L	5.7	1.2J	1.6J	2.3J	2.3	3
PCB-43	ng/L	0.87C,J	0.26Q,C,J	0.22C,J	0.27Q,C,J	0.47C,J	0.39C,J
PCB-44	ng/L	28B,C	7.4B,C	8B,C	12B,C	12B,C	13B,C
PCB-45	ng/L	7.9C	2.3C	2C,J	3.1C,J	3.3C	3.6C
PCB-46	ng/L	1.5Q,J	0.7J	0.47Q,J	0.72J	0.83J	0.86J
PCB-47	ng/L	28B,C44	7.4B,C44	8B,C44	12B,C44	12B,C44	13B,C44
PCB-48	ng/L	6.1	1.6J	1.6J	2.2J	2.2	2.2J
PCB-49	ng/L	13C	3.6C	4.1C	6C	6.6C	7.1C
PCB-5	ng/L	0.35Q,J	0.15Q,J	0.086Q,J	0.13Q,J	2.1U	0.14Q,J
PCB-50	ng/L	3.7C	1.4C,J	1.1C,J	1.9C,J	2.2C	2.5C
PCB-51	ng/L	7.9C45	2.3C45	2C45,J	3.1C45,J	3.3C45	3.6C45
PCB-53	ng/L	3.7C50	1.4C50,J	1.1C50,J	1.9C50,J	2.2C50	2.5C50
PCB-54	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-55	ng/L	0.32J	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-56	ng/L	3.7	0.84J	1.2J	2.5J	1.5J	2.1J
PCB-57	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-58	ng/L	0.33J	2.1U	0.1Q,J	5.4U	0.22J	0.17Q,J
PCB-6	ng/L	3.5	1.8J	1.3Q,J	1.3Q,J	1.7Q,J	1.5Q,J
PCB-61	ng/L	18B,C	4.5B,C	5.7B,C	9.9B,C	7.7B,C	9.9B,C
PCB-62	ng/L	1.9C59,J	0.52C59,J	0.49Q,C59,J	0.72C59,J	0.85C59,J	0.93C59,J
PCB-63	ng/L	0.39Q,J	2.1U	0.19J	0.25Q,J	0.31J	0.24Q,J
PCB-65	ng/L	28B,C44	7.4B,C44	8B,C44	12B,C44	12B,C44	13B,C44
PCB-66	ng/L	8.8B	2.2B	2.9B	5.5B	3.7B	4.8B
PCB-67	ng/L	0.37Q,J	2.1U	0.16J	0.25Q,J	2.1U	0.3J
PCB-68	ng/L	0.78J	0.18Q,J	0.17J	5.4U	2.1U	0.39J
PCB-69	ng/L	13C49	3.6C49	4.1C49	6C49	6.6C49	7.1C49
PCB-7	ng/L	2.4J	0.84Q,J	0.65Q,J	0.95Q,J	1J	0.75Q,J
PCB-70	ng/L	18B,C61	4.5B,C61	5.7B,C61	9.9B,C61	7.7B,C61	9.9B,C61
PCB-71	ng/L	12C40	2.7C40	3.1C40	4.6C40,J	4.8C40	6C40
PCB-73	ng/L	0.87C43,J	0.26Q,C43,J	0.22C43,J	0.27Q,C43,J	0.47C43,J	0.39C43,J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-05 WB915-INTERBED 2 02/07/2013 Regular sample	SB915-3107-08 WB915-IRON BROOK 02/06/2013 Regular sample	SB915-3107-05 WB915-REACH B 02/06/2013 Regular sample	SB915-3107-04 WB915-REACH C 02/06/2013 Regular sample	SB915-3107-03 WB915-REACH D 02/06/2013 Regular sample	SB915-3107-02 WB915-REACH E 02/06/2013 Regular sample
PCB-74	ng/L	18B,C61	4.5B,C61	5.7B,C61	9.9B,C61	7.7B,C61	9.9B,C61
PCB-76/66	ng/L	18B,C61	4.5B,C61	5.7B,C61	9.9B,C61	7.7B,C61	9.9B,C61
PCB-77	ng/L	0.25Q,J	2.1U	0.27J	0.3J	0.14J	0.36J
PCB-78	ng/L	2.4U	2.1U	0.08Q,J	5.4U	2.1U	2.4U
PCB-79	ng/L	0.096Q,J	0.13Q,J	0.093J	5.4U	2.1U	2.4U
PCB-8	ng/L	15B	5.5B	4.6B	5.1B,J	5.5S,B	5.3S,B
PCB-80	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-81	ng/L	2.4U	2.1U	0.055Q,J	5.4U	2.1U	2.4U
PCB-82	ng/L	0.27Q,J	0.17Q,J	2.5U	0.46J	0.2Q,J	2.4U
PCB-83	ng/L	1.1Q,C,J	0.71C,J	0.7C,J	2.4C,J	0.83C,J	1C,J
PCB-84	ng/L	0.95J	0.34J	0.34Q,J	1.4J	0.39Q,J	0.69Q,J
PCB-85	ng/L	0.46C,J	0.32C,J	0.15Q,C,J	0.76C,J	2.1U	0.29Q,C,J
PCB-86	ng/L	1.6B,C,J	0.67Q,B,C,J	0.67B,C,J	2.5B,C,J	0.96B,C,J	1.3B,C,J
PCB-87	ng/L	1.6B,C86,J	0.67Q,B,C86,J	0.67B,C86,J	2.5B,C86,J	0.96B,C86,J	1.3B,C86,J
PCB-88	ng/L	0.4Q,C,J	2.1U	0.2Q,C,J	0.58Q,C,J	0.25C,J	0.4Q,C,J
PCB-89	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-9	ng/L	1.2Q,J	0.51Q,J	0.42Q,J	0.42Q,J	0.51Q,J	0.5Q,J
PCB-90	ng/L	2.8C	1.5C,J	1.3C,J	4.1C,J	1.6C,J	2.3C,J
PCB-92	ng/L	0.45J	0.19Q,J	0.24J	0.7J	0.36J	0.34Q,J
PCB-93	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-94	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-95	ng/L	3.8	1.7J	1.7J	4.7J	2.6	3
PCB-96	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
PCB-97	ng/L	1.6B,C86,J	0.67Q,B,C86,J	0.67B,C86,J	2.5B,C86,J	0.96B,C86,J	1.3B,C86,J
Total Di-CB	ng/L	63EMPC	36EMPC	30EMPC	23EMPC	46EMPCJ	30EMPCJ
Total Hepta-CB	ng/L	1.5EMPCJ	0.29EMPCU	1.4EMPCJ	0.49EMPCU	0.89EMPC	1.1EMPCJ
Total Hexa-CB	ng/L	7.1EMPCJ	2.4EMPCJ	3.4EMPCJ	7.2EMPCJ	2.7EMPCJ	4.5EMPCJ
Total Mono-CB	ng/L	5.6	2.8EMPCJ	2.6J	2.6EMPCJ	4.1EMPCJ	2.8EMPCJ
Total Nona-CB	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
Total Octa-CB	ng/L	2.4U	2.1U	2.5U	5.4U	2.1U	2.4U
Total Penta-CB	ng/L	19EMPCJ	8.6EMPCJ	8.7EMPCJ	25EMPCJ	11EMPCJ	15EMPC
Total Tetra-CB	ng/L	150EMPC	41EMPC	47EMPC	71EMPC	70EMPC	82EMPC
Total Tri-CB	ng/L	120EMPC	52EMPC	30EMPC	54EMPC	46EMPC	52EMPC

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	Field Sample ID / Location / Sample Date / Sample Purpose	Units	SB915-3107-01 WB915-REACH F 02/06/2013 Regular sample	SB915-3107-07 WB915-REF REACH 02/06/2013 Regular sample	SB915-3109-11 WB915-RET POND1 02/07/2013 Regular sample	SB915-3110-01 WB915-RET POND2-2 02/07/2013 Regular sample
TOTAL PCBs		ng/L	399.407	295.89	264.161	322.9
10-DiCB		ng/L	0.12Q,J	0.11Q,J	0.16Q,J	0.23Q,J
109-PeCB		ng/L	1.6Q,B,C86,J	1.4B,C86,J	0.59Q,B,C86,J	1.6Q,B,C86,J
112-PeCB		ng/L	2.5U	2.5U	2U	2.3U
142-HxCB		ng/L	2.5U	2.5U	2U	2.3U
143-HxCB		ng/L	2.5U	2.5U	0.47C134,J	2.3U
160-HxCB		ng/L	1.2Q,C129,J	1.2C129,J	0.59C129,J	1.5Q,C129,J
161-HxCB		ng/L	2.5U	2.5U	2U	2.3U
162-HxCB		ng/L	2.5U	2.5U	2U	2.3U
164-HxCB		ng/L	2.5U	2.5U	2U	2.3U
165-HxCB		ng/L	2.5U	2.5U	2U	2.3U
2,3',4,4'-TETRACHLOROBIPHENYL		ng/L	1.3Q,J	1.3J	0.57Q,J	2.1Q,J
203-OcCB		ng/L	2.5U	2.5U	2U	2.3U
21-TrCB C33		ng/L	6.1B,C	6.0B,C	7.2B,C	10B,C
59-TeCB C62/75		ng/L	1.2C,J	0.73Q,C,J	0.72C,J	0.53Q,C,J
64-TeCB		ng/L	5.8	3.6	2.2	1.7Q,J
72-TeCB		ng/L	2.5U	2.5U	2U	2.3U
98-PeCB C102		ng/L	2.5U	2.5U	2U	2.3U
PCB 101		ng/L	2.9C90	2.9C90	1.2C90,J	2.2C90,J
PCB 102 (BZ)		ng/L	2.5U	2.5U	2U	2.3U
PCB 115 (BZ)		ng/L	2.7C110	2.1C110,J	0.83C110,J	2.4Q,C110
PCB 116 (BZ)		ng/L	0.37C85,J	0.34C85,J	0.18Q,C85,J	0.55Q,C85,J
PCB 117 (BZ)		ng/L	0.37C85,J	0.34C85,J	0.18Q,C85,J	0.55Q,C85,J
PCB 118		ng/L	2.8	2J	1.2J	2.9
PCB 125 (BZ)		ng/L	1.6Q,B,C86,J	1.4B,C86,J	0.59Q,B,C86,J	1.6Q,B,C86,J
PCB 13 (BZ)		ng/L	0.56Q,C12,J	0.49Q,C12,J	0.85Q,C12,J	1.5Q,C12,J
PCB 138		ng/L	1.2Q,C129,J	1.2C129,J	0.59C129,J	1.5Q,C129,J
PCB 153		ng/L	1.3B,C,J	1.1B,C,J	0.5B,C,J	1.2B,C,J
PCB 163 (BZ)		ng/L	1.2Q,C129,J	1.2C129,J	0.59C129,J	1.5Q,C129,J
PCB 209		ng/L	2.5U	2.5U	2U	2.3U
PCB 28		ng/L	15B,C20	11B,C20	12B,C20	18B,C20
PCB 30		ng/L	9.6B,C18	7.6B,C18	5.8B,C18	5.3B,C18
PCB 52		ng/L	25B	14B	12B	11B
PCB 75 (BZ)		ng/L	1.2C59,J	0.73Q,C59,J	0.72C59,J	0.53Q,C59,J
PCB 91 (BZ)		ng/L	0.49Q,C88,J	0.43C88,J	0.13Q,C88,J	2.3U
PCB-1		ng/L	1.3B,J	0.96B,J	1.3B,J	1.3B,J
PCB-100		ng/L	2.5U	2.5U	2U	2.3U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

	Field Sample ID	SB915-3107-01	SB915-3107-07	SB915-3109-11	SB915-3110-01
	Location	WB915-REACH F	WB915-REF REACH	WB915-RET POND1	WB915-RET POND2-2
	Sample Date	02/06/2013	02/06/2013	02/07/2013	02/07/2013
	Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	Units				
PCB-103	ng/L	2.5U	2.5U	2U	2.3U
PCB-104	ng/L	2.5U	2.5U	2U	2.3U
PCB-105	ng/L	1.1J	0.68Q,J	0.45J	1.3Q,J
PCB-106/118	ng/L	2.5U	2.5U	2U	2.3U
PCB-107/109	ng/L	0.22J	0.12Q,J	2U	2.3U
PCB-108/107	ng/L	0.22C,J	2.5U	2U	2.3U
PCB-11	ng/L	12B	16B	23B	18B
PCB-110	ng/L	2.7C	2.1C,J	0.83C,J	2.4Q,C
PCB-111	ng/L	2.5U	2.5U	2U	2.3U
PCB-113	ng/L	2.9C90	2.9C90	1.2C90,J	2.2C90,J
PCB-114	ng/L	0.14Q,J	2.5U	2U	2.3U
PCB-119	ng/L	1.6Q,B,C86,J	1.4B,C86,J	0.59Q,B,C86,J	1.6Q,B,C86,J
PCB-12	ng/L	0.56Q,C,J	0.49Q,C,J	0.85Q,C,J	1.5Q,C,J
PCB-120	ng/L	2.5U	2.5U	2U	2.3U
PCB-121	ng/L	2.5U	2.5U	2U	2.3U
PCB-122	ng/L	2.5U	2.5U	2U	0.36Q,J
PCB-123	ng/L	2.5U	2.5U	2U	2.3U
PCB-124	ng/L	0.22C108,J	2.5U	2U	2.3U
PCB-126	ng/L	2.5U	2.5U	2U	2.3U
PCB-127	ng/L	2.5U	2.5U	2U	2.3U
PCB-128	ng/L	0.28C,J	2.5U	2U	2.3U
PCB-129	ng/L	1.2Q,C,J	1.2C,J	0.59C,J	1.5Q,C,J
PCB-130	ng/L	2.5U	2.5U	2U	2.3U
PCB-131	ng/L	2.5U	2.5U	2U	2.3U
PCB-132	ng/L	0.36J	0.43J	2U	2.3U
PCB-133	ng/L	2.5U	2.5U	2U	2.3U
PCB-134	ng/L	2.5U	2.5U	0.47C,J	2.3U
PCB-135	ng/L	0.6Q,C,J	0.58C,J	2U	0.53Q,C,J
PCB-136	ng/L	2.5U	0.31Q,J	2U	2.3U
PCB-137	ng/L	2.5U	2.5U	2U	2.3U
PCB-139	ng/L	2.5U	2.5U	2U	2.3U
PCB-14	ng/L	0.089Q,J	0.05Q,J	0.059Q,J	0.22Q,J
PCB-140	ng/L	2.5U	2.5U	2U	2.3U
PCB-141	ng/L	0.27J	0.13Q,J	2U	2.3U
PCB-144	ng/L	2.5U	2.5U	2U	2.3U
PCB-145	ng/L	2.5U	2.5U	2U	2.3U
PCB-146	ng/L	2.5U	2.5U	2U	2.3U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	Field Sample ID / Location / Sample Date / Sample Purpose	Units	SB915-3107-01 WB915-REACH F 02/06/2013 Regular sample	SB915-3107-07 WB915-REF REACH 02/06/2013 Regular sample	SB915-3109-11 WB915-RET POND1 02/07/2013 Regular sample	SB915-3110-01 WB915-RET POND2-2 02/07/2013 Regular sample
PCB-147		ng/L	1C,J	1Q,C,J	2U	0.84C,J
PCB-148		ng/L	2.5U	2.5U	2U	2.3U
PCB-149		ng/L	1C147,J	1Q,C147,J	2U	0.84C147,J
PCB-15		ng/L	1.6Q,B,J	1.7B,J	2.2B	2.7Q,B
PCB-150		ng/L	2.5U	2.5U	2U	2.3U
PCB-151		ng/L	0.6Q,C135,J	0.58C135,J	2U	0.53Q,C135,J
PCB-152		ng/L	2.5U	2.5U	2U	2.3U
PCB-153		ng/L	1.5C83,J	1.5C83,J	0.62C83,J	1.7C83,J
PCB-154		ng/L	2.5U	2.5U	2U	2.3U
PCB-155		ng/L	2.5U	2.5U	2U	2.3U
PCB-156		ng/L	0.23Q,C,J	2.5U	0.15Q,C,J	2.3U
PCB-157		ng/L	0.23Q,C156,J	2.5U	0.15Q,C156,J	2.3U
PCB-158		ng/L	0.16Q,J	2.5U	2U	2.3U
PCB-159		ng/L	2.5U	2.5U	2U	2.3U
PCB-16		ng/L	3.1	2.8	2.5	1.8J
PCB-166		ng/L	0.28C128,J	2.5U	2U	2.3U
PCB-167		ng/L	2.5U	2.5U	2U	2.3U
PCB-168		ng/L	1.3B,C153,J	1.1B,C153,J	0.5B,C153,J	1.2B,C153,J
PCB-169		ng/L	2.5U	2.5U	2U	2.3U
PCB-17		ng/L	3.7	3.5	2.8	2.2J
PCB-170		ng/L	0.17Q,J	2.5U	2U	2.3U
PCB-171		ng/L	2.5U	2.5U	2U	2.3U
PCB-172		ng/L	2.5U	2.5U	2U	2.3U
PCB-173		ng/L	2.5U	2.5U	2U	2.3U
PCB-174		ng/L	0.28Q,J	2.5U	2U	2.3U
PCB-175		ng/L	2.5U	2.5U	2U	2.3U
PCB-176		ng/L	2.5U	2.5U	2U	2.3U
PCB-177		ng/L	0.25J	2.5U	2U	2.3U
PCB-178		ng/L	2.5U	2.5U	2U	2.3U
PCB-179		ng/L	2.5U	0.14J	2U	2.3U
PCB-18		ng/L	9.6B,C	7.6B,C	5.8B,C	5.3B,C
PCB-180		ng/L	0.59C,J	0.28Q,C,J	0.35Q,C,J	2.3U
PCB-181		ng/L	2.5U	2.5U	2U	2.3U
PCB-182		ng/L	2.5U	2.5U	2U	2.3U
PCB-183		ng/L	2.5U	2.5U	2U	2.3U
PCB-184		ng/L	2.5U	2.5U	2U	2.3U
PCB-185		ng/L	2.5U	2.5U	2U	2.3U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

	Field Sample ID	SB915-3107-01	SB915-3107-07	SB915-3109-11	SB915-3110-01
	Location	WB915-REACH F	WB915-REF REACH	WB915-RET POND1	WB915-RET POND2-2
	Sample Date	02/06/2013	02/06/2013	02/07/2013	02/07/2013
	Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	Units				
PCB-186	ng/L	2.5U	2.5U	2U	2.3U
PCB-188	ng/L	2.5U	2.5U	2U	2.3U
PCB-189	ng/L	2.5U	2.5U	2U	2.3U
PCB-19	ng/L	1.3J	0.72J	0.67J	0.76J
PCB-190	ng/L	2.5U	2.5U	2U	2.3U
PCB-191	ng/L	2.5U	2.5U	2U	2.3U
PCB-192	ng/L	2.5U	2.5U	2U	2.3U
PCB-193	ng/L	0.59C180,J	0.28Q,C180,J	0.35Q,C180,J	2.3U
PCB-194	ng/L	2.5U	2.5U	2U	2.3U
PCB-195	ng/L	2.5U	2.5U	2U	2.3U
PCB-196/203	ng/L	2.5U	2.5U	2U	2.3U
PCB-197	ng/L	2.5U	2.5U	2U	2.3U
PCB-198	ng/L	2.5U	2.5U	2U	2.3U
PCB-199	ng/L	2.5U	2.5U	2U	2.3U
PCB-2	ng/L	0.5J	0.36Q,J	0.62J	0.72J
PCB-20	ng/L	15B,C	11B,C	12B,C	18B,C
PCB-200	ng/L	2.5U	2.5U	2U	2.3U
PCB-201	ng/L	2.5U	2.5U	2U	2.3U
PCB-202	ng/L	2.5U	2.5U	2U	2.3U
PCB-204	ng/L	2.5U	2.5U	2U	2.3U
PCB-205	ng/L	2.5U	2.5U	2U	2.3U
PCB-206	ng/L	0.11J	2.5U	2U	2.3U
PCB-207	ng/L	2.5U	2.5U	2U	2.3U
PCB-208	ng/L	2.5U	2.5U	2U	2.3U
PCB-22	ng/L	4.8B	3.4B	3.8B	6.2B
PCB-23	ng/L	2.5U	2.5U	2U	2.3U
PCB-24	ng/L	0.14Q,J	0.12Q,J	0.1Q,J	0.11Q,J
PCB-25	ng/L	1.4J	0.9J	1.2J	1.8Q,J
PCB-26	ng/L	2.6C	2C,J	2.3C	3.5C
PCB-27	ng/L	0.6J	0.43Q,J	0.4Q,J	0.31J
PCB-29	ng/L	2.6C26	2C26,J	2.3C26	3.5C26
PCB-3	ng/L	1Q,B,J	1.1B,J	1.7B,J	1.9Q,B,J
PCB-31	ng/L	13B	9.9B	11B	16B
PCB-32	ng/L	2.3J	2.2J	1.7J	0.91Q,J
PCB-33	ng/L	6.1B,C21	6B,C21	7.2B,C21	10B,C21
PCB-34	ng/L	0.11Q,J	2.5U	2U	2.3U
PCB-35	ng/L	0.25J	0.28J	0.22Q,J	2.3U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

	Field Sample ID	SB915-3107-01	SB915-3107-07	SB915-3109-11	SB915-3110-01
	Location	WB915-REACH F	WB915-REF REACH	WB915-RET POND1	WB915-RET POND2-2
	Sample Date	02/06/2013	02/06/2013	02/07/2013	02/07/2013
	Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	Units				
PCB-36	ng/L	0.12J	0.14Q,J	0.1Q,J	0.96Q,J
PCB-37	ng/L	1.8Q,J	1.6Q,J	1.2Q,J	3.5Q
PCB-38	ng/L	2.5U	2.5U	2U	0.38Q,J
PCB-39	ng/L	0.13Q,J	0.11J	0.076J	2.3U
PCB-4	ng/L	3.3Q,J	1.8Q,J	2.3J	2.4Q,J
PCB-40	ng/L	7.3C	5.3C	3.6C	4Q,C
PCB-41	ng/L	7.3C40	5.3C40	3.6C40	4Q,C40
PCB-42	ng/L	3.6	2.4J	1.6J	2Q,J
PCB-43	ng/L	0.57Q,C,J	0.35C,J	0.26Q,C,J	2.3U
PCB-44	ng/L	18B,C	11B,C	13B,C	10B,C
PCB-45	ng/L	4.6C	2.6C	4.4C	2.8C
PCB-46	ng/L	1.3Q,J	0.8J	0.67Q,J	0.95Q,J
PCB-47	ng/L	18B,C44	11B,C44	13B,C44	10B,C44
PCB-48	ng/L	3.4	2.3J	2	1.8Q,J
PCB-49	ng/L	11C	6.3C	4.9C	4.7C
PCB-5	ng/L	0.13Q,J	0.15Q,J	0.25Q,J	0.36Q,J
PCB-50	ng/L	3.6C	1.8C,J	1.8C,J	1.2Q,C,J
PCB-51	ng/L	4.6C45	2.6C45	4.4C45	2.8C45
PCB-53	ng/L	3.6C50	1.8C50,J	1.8C50,J	1.2Q,C50,J
PCB-54	ng/L	2.5U	2.5U	2U	2.3U
PCB-55	ng/L	2.5U	2.5U	2U	2.3U
PCB-56	ng/L	2.9	2J	0.84Q,J	2.4
PCB-57	ng/L	2.5U	2.5U	2U	2.3U
PCB-58	ng/L	0.14J	0.22Q,J	0.19J	2.3U
PCB-6	ng/L	1.5Q,J	1.4Q,J	1.9Q,J	3.1Q
PCB-61	ng/L	13B,C	9.9B,C	5.3B,C	8.4B,C
PCB-62	ng/L	1.2C59,J	0.73Q,C59,J	0.72C59,J	0.53Q,C59,J
PCB-63	ng/L	0.56J	0.26J	0.18Q,J	2.3U
PCB-65	ng/L	18B,C44	11B,C44	13B,C44	10B,C44
PCB-66	ng/L	6.7B	4.9B	2.5B	4.1B
PCB-67	ng/L	0.2Q,J	0.19J	0.24Q,J	2.3U
PCB-68	ng/L	0.2Q,J	0.23J	0.29Q,J	2.3U
PCB-69	ng/L	11C49	6.3C49	4.9C49	4.7C49
PCB-7	ng/L	0.9Q,J	0.7Q,J	1.9J	2.2Q,J
PCB-70	ng/L	13B,C61	9.9B,C61	5.3B,C61	8.4B,C61
PCB-71	ng/L	7.3C40	5.3C40	3.6C40	4Q,C40
PCB-73	ng/L	0.57Q,C43,J	0.35C43,J	0.26Q,C43,J	2.3U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 106
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (PISCES Samples)
Method 1668 PCB Congeners and Homologs

	Field Sample ID	SB915-3107-01	SB915-3107-07	SB915-3109-11	SB915-3110-01
	Location	WB915-REACH F	WB915-REF REACH	WB915-RET POND1	WB915-RET POND2-2
	Sample Date	02/06/2013	02/06/2013	02/07/2013	02/07/2013
	Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample
Parameter Name	Units				
PCB-74	ng/L	13B,C61	9.9B,C61	5.3B,C61	8.4B,C61
PCB-76/66	ng/L	13B,C61	9.9B,C61	5.3B,C61	8.4B,C61
PCB-77	ng/L	0.24Q,J	0.26J	0.25Q,J	2.3U
PCB-78	ng/L	2.5U	2.5U	2U	2.3U
PCB-79	ng/L	2.5U	2.5U	0.12Q,J	2.3U
PCB-8	ng/L	5.2S,B	5.6S,B	6.7B	11B,S
PCB-80	ng/L	2.5U	2.5U	2U	2.3U
PCB-81	ng/L	2.5U	2.5U	0.096Q,J	2.3U
PCB-82	ng/L	0.25Q,J	0.2Q,J	2U	0.75Q,J
PCB-83	ng/L	1.5C,J	1.5C,J	0.62C,J	1.7C,J
PCB-84	ng/L	0.98J	0.68Q,J	0.31Q,J	2.3U
PCB-85	ng/L	0.37C,J	0.34C,J	0.18Q,C,J	0.55Q,C,J
PCB-86	ng/L	1.6Q,B,C,J	1.4B,C,J	0.59Q,B,C,J	1.6Q,B,C,J
PCB-87	ng/L	1.6Q,B,C86,J	1.4B,C86,J	0.59Q,B,C86,J	1.6Q,B,C86,J
PCB-88	ng/L	0.49Q,C,J	0.43C,J	0.13Q,C,J	2.3U
PCB-89	ng/L	2.5U	2.5U	2U	2.3U
PCB-9	ng/L	0.48Q,J	0.58Q,J	0.65Q,J	1.3J
PCB-90	ng/L	2.9C	2.9C	1.2C,J	2.2C,J
PCB-92	ng/L	0.51J	0.36Q,J	0.13J	2.3U
PCB-93	ng/L	2.5U	2.5U	2U	2.3U
PCB-94	ng/L	2.5U	2.5U	2U	2.3U
PCB-95	ng/L	4	3.5	1.5J	2.8
PCB-96	ng/L	2.5U	2.5U	2U	2.3U
PCB-97	ng/L	1.6Q,B,C86,J	1.4B,C86,J	0.59Q,B,C86,J	1.6Q,B,C86,J
Total Di-CB	ng/L	26EMPCJ	28EMPCJ	40EMPC	43EMPC
Total Hepta-CB	ng/L	1.6EMPCJ	0.68EMPCJ	0.57QJ	2.3U
Total Hexa-CB	ng/L	5.4EMPCJ	4.7EMPCJ	1.7EMPCUJ	4.1EMPCJ
Total Mono-CB	ng/L	2.8EMPC	2.4EMPCJ	3.6BEMPCU	3.9EMPCJ
Total Nona-CB	ng/L	0.11J	2.5U	2U	2.3U
Total Octa-CB	ng/L	2.5U	2.5U	2U	2.3U
Total Penta-CB	ng/L	20EMPC	16EMPC	7.1EMPCJ	17EMPC
Total Tetra-CB	ng/L	110EMPC	71EMPC	57EMPC	58EMPC
Total Tri-CB	ng/L	66EMPC	53EMPC	54EMPC	72EMPCJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration.
Total PCBs determined by summing the detected PCB congeners.

Table 107
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-10 WB915-GRAVEL PIT 02/07/2013 Regular sample	SB915-3109-02 WB915-INTERBED 1 02/07/2013 Regular sample	SB915-3109-06 WB915-INTERBED 3 02/07/2013 Regular sample	SB915-3109-07 WB915-OUT-011 02/07/2013 Regular sample	SB915-3109-08 WB915-OUT-017 02/07/2013 Regular sample
TOTAL PCBs	0.001(S)	ng/L	[0.3994]	[0.76157]	[18.32002]	[0.51671]	[0.60018]
10-DiCB	NC	ng/L	0.041U	0.038U	0.0015Q,J	0.039U	0.0035Q,J
109-PeCB	NC	ng/L	0.013Q,B,C86,J	0.013Q,B,C86,J	0.34B,C86	0.014B,C86,J	0.01Q,B,C86,J
112-PeCB	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
142-HxCB	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
143-HxCB	NC	ng/L	0.041U	0.038U	0.019Q,C134,J	0.039U	0.039U
160-HxCB	NC	ng/L	0.012B,C129,J	0.023B,C129,J	0.38B,C129	0.013B,C129,J	0.0095B,C129,J
161-HxCB	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
162-HxCB	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
164-HxCB	NC	ng/L	0.00072J	0.00079Q,J	0.022J	0.039U	0.039U
165-HxCB	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.041U	0.0033Q,J	0.12	0.0012J	0.039U
203-OcCB	NC	ng/L	0.041U	0.0022Q,J	0.0076J	0.039U	0.0013Q,J
21-TrCB C33	NC	ng/L	0.0033B,C,J	0.0034B,C,J	0.032B,C,J	0.0025Q,B,C,J	0.0037B,C,J
59-TeCB C62/75	NC	ng/L	0.041U	0.038U	0.032C,J	0.039U	0.039U
64-TeCB	NC	ng/L	0.0017Q,J	0.0039Q,J	0.17	0.0031J	0.0027J
72-TeCB	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
98-PeCB C102	NC	ng/L	0.041U	0.038U	0.013C,J	0.039U	0.039U
PCB 101	NC	ng/L	0.0053Q,B,C90,J	0.012B,C90,J	0.44B,C90	0.010Q,B,C90,J	0.0072B,C90,J
PCB 102 (BZ)	NC	ng/L	0.041U	0.038U	0.013C98,J	0.039U	0.039U
PCB 115 (BZ)	NC	ng/L	0.010Q,B,C110,J	0.016B,C110,J	0.57B,C110	0.0079Q,B,C110,J	0.0085B,C110,J
PCB 116 (BZ)	NC	ng/L	0.041U	0.0027C85,J	0.11C85	0.0021C85,J	0.039U
PCB 117 (BZ)	NC	ng/L	0.041U	0.0027C85,J	0.11C85	0.0021C85,J	0.039U
PCB 118	NC	ng/L	0.01B,J	0.017B,J	0.44B	0.013B,J	0.0078B,J
PCB 125 (BZ)	NC	ng/L	0.013Q,B,C86,J	0.013Q,B,C86,J	0.34B,C86	0.014B,C86,J	0.010Q,B,C86,J
PCB 13 (BZ)	NC	ng/L	0.0018Q,B,C12,J	0.0019Q,B,C12,J	0.0099Q,B,C12,J	0.0037Q,B,C12,J	0.0024Q,B,C12,J
PCB 138	NC	ng/L	0.012B,C129,J	0.023B,C129,J	0.38B,C129	0.013B,C129,J	0.0095B,C129,J
PCB 153	NC	ng/L	0.0065B,C,J	0.022B,C,J	0.24B,C	0.017B,C,J	0.009B,C,J
PCB 163 (BZ)	NC	ng/L	0.012B,C129,J	0.023B,C129,J	0.38B,C129	0.013B,C129,J	0.0095B,C129,J
PCB 209	NC	ng/L	0.041U	0.038U	0.0023J	0.0025Q,J	0.00076Q,J
PCB 28	NC	ng/L	0.0058B,C20,J	0.015B,C20,J	0.40B,C20	0.0060B,C20,J	0.0093B,C20,J
PCB 30	NC	ng/L	0.0042B,C18,J	0.0069Q,B,C18,J	0.079B,C18	0.0044Q,B,C18,J	0.023B,C18,J
PCB 52	NC	ng/L	0.0064B,J	0.012B,J	0.41B	0.01B,J	0.0076Q,B,J
PCB 75 (BZ)	NC	ng/L	0.041U	0.038U	0.032C59,J	0.039U	0.039U
PCB 91 (BZ)	NC	ng/L	0.041U	0.038U	0.067C88	0.039U	0.039U
PCB-1	NC	ng/L	0.041U	0.0012Q,J	0.0024J	0.039U	0.016J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 107
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-10 WB915-GRAVEL PIT 02/07/2013 Regular sample	SB915-3109-02 WB915-INTERBED 1 02/07/2013 Regular sample	SB915-3109-06 WB915-INTERBED 3 02/07/2013 Regular sample	SB915-3109-07 WB915-OUT-011 02/07/2013 Regular sample	SB915-3109-08 WB915-OUT-017 02/07/2013 Regular sample
PCB-100	NC	ng/L	0.041U	0.038U	0.0031Q,C93,J	0.039U	0.039U
PCB-103	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-104	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-105	NC	ng/L	0.0054B,J	0.0063Q,B,J	0.19B	0.0048B,J	0.003Q,B,J
PCB-106/118	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-107/109	NC	ng/L	0.041U	0.038U	0.026J	0.00055Q,J	0.039U
PCB-108/107	NC	ng/L	0.041U	0.038U	0.018C,J	0.039U	0.039U
PCB-11	NC	ng/L	0.027Q,B,J	0.016Q,B,J	0.016Q,B,J	0.012Q,B,J	0.035B,J
PCB-110	NC	ng/L	0.01Q,B,C,J	0.016B,C,J	0.57B,C	0.0079Q,B,C,J	0.0085B,C,J
PCB-111	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-113	NC	ng/L	0.0053Q,B,C90,J	0.012B,C90,J	0.44B,C90	0.010Q,B,C90,J	0.0072B,C90,J
PCB-114	NC	ng/L	0.041U	0.038U	0.011J	0.039U	0.039U
PCB-119	NC	ng/L	0.013Q,B,C86,J	0.013Q,B,C86,J	0.34B,C86	0.014B,C86,J	0.010Q,B,C86,J
PCB-12	NC	ng/L	0.0018Q,B,C,J	0.0019Q,B,C,J	0.0099Q,B,C,J	0.0037Q,B,C,J	0.0024Q,B,C,J
PCB-120	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-121	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-122	NC	ng/L	0.041U	0.038U	0.0067J	0.039U	0.039U
PCB-123	NC	ng/L	0.041U	0.038U	0.0065Q,J	0.039U	0.039U
PCB-124	NC	ng/L	0.041U	0.038U	0.018C108,J	0.039U	0.039U
PCB-126	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-127	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-128	NC	ng/L	0.0024Q,C,J	0.0025C,J	0.073C	0.0016C,J	0.001C,J
PCB-129	NC	ng/L	0.012B,C,J	0.023B,C,J	0.38B,C	0.013B,C,J	0.0095B,C,J
PCB-130	NC	ng/L	0.041U	0.038U	0.024J	0.039U	0.039U
PCB-131	NC	ng/L	0.041U	0.038U	0.0042Q,J	0.039U	0.039U
PCB-132	NC	ng/L	0.0026Q,J	0.0036J	0.12	0.0019J	0.003J
PCB-133	NC	ng/L	0.041U	0.038U	0.0027Q,J	0.039U	0.039U
PCB-134	NC	ng/L	0.041U	0.038U	0.019Q,C,J	0.039U	0.039U
PCB-135	NC	ng/L	0.041U	0.0045C,J	0.076C	0.039U	0.0027Q,C,J
PCB-136	NC	ng/L	0.041U	0.038U	0.035J	0.039U	0.0014Q,J
PCB-137	NC	ng/L	0.041U	0.038U	0.024Q,J	0.039U	0.039U
PCB-139	NC	ng/L	0.041U	0.038U	0.0064Q,C,J	0.039U	0.039U
PCB-14	NC	ng/L	0.041U	0.038U	0.041U	0.00094Q,J	0.039U
PCB-140	NC	ng/L	0.041U	0.038U	0.0064Q,C139,J	0.039U	0.039U
PCB-141	NC	ng/L	0.0016Q,J	0.0028J	0.051	0.0029J	0.0016J
PCB-144	NC	ng/L	0.041U	0.038U	0.012J	0.039U	0.039U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 107
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-10 WB915-GRAVEL PIT 02/07/2013 Regular sample	SB915-3109-02 WB915-INTERBED 1 02/07/2013 Regular sample	SB915-3109-06 WB915-INTERBED 3 02/07/2013 Regular sample	SB915-3109-07 WB915-OUT-011 02/07/2013 Regular sample	SB915-3109-08 WB915-OUT-017 02/07/2013 Regular sample
PCB-145	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-146	NC	ng/L	0.0011J	0.0024J	0.038J	0.0011Q,J	0.001Q,J
PCB-147	NC	ng/L	0.0056C,J	0.0086C,J	0.2C	0.0054C,J	0.0053C,J
PCB-148	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-149	NC	ng/L	0.0056C147,J	0.0086C147,J	0.20C147	0.0054C147,J	0.0053C147,J
PCB-15	NC	ng/L	0.0034Q,B,J	0.0035Q,B,J	0.081B	0.0025Q,B,J	0.0037B,J
PCB-150	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-151	NC	ng/L	0.041U	0.0045C135,J	0.076C135	0.039U	0.0027Q,C135,J
PCB-152	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-153	NC	ng/L	0.0041C83,J	0.0076Q,C83,J	0.3C83	0.0079Q,C83,J	0.0034Q,C83,J
PCB-154	NC	ng/L	0.041U	0.038U	0.0031J	0.039U	0.039U
PCB-155	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-156	NC	ng/L	0.0015Q,C,J	0.0024C,J	0.056C	0.0014C,J	0.039U
PCB-157	NC	ng/L	0.0015Q,C156,J	0.0024C156,J	0.056C156	0.0014C156,J	0.039U
PCB-158	NC	ng/L	0.001Q,J	0.0011Q,J	0.042	0.039U	0.039U
PCB-159	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-16	NC	ng/L	0.0019Q,B,J	0.0034Q,B,J	0.034B,J	0.0013Q,B,J	0.0086Q,B,J
PCB-166	NC	ng/L	0.0024Q,C128,J	0.0025C128,J	0.073C128	0.0016C128,J	0.0010C128,J
PCB-167	NC	ng/L	0.041U	0.00079Q,J	0.015J	0.039U	0.039U
PCB-168	NC	ng/L	0.0065B,C153,J	0.022B,C153,J	0.24B,C153	0.017B,C153,J	0.0090B,C153,J
PCB-169	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-17	NC	ng/L	0.0017Q,J	0.0025Q,J	0.043	0.0022J	0.006J
PCB-170	NC	ng/L	0.0017J	0.0052Q,J	0.038J	0.0028J	0.0029J
PCB-171	NC	ng/L	0.041U	0.0012Q,C,J	0.01C,J	0.039U	0.039U
PCB-172	NC	ng/L	0.041U	0.038U	0.004Q,J	0.039U	0.039U
PCB-173	NC	ng/L	0.041U	0.0012Q,C171,J	0.010C171,J	0.039U	0.039U
PCB-174	NC	ng/L	0.0014J	0.0038J	0.024J	0.0017Q,J	0.0021Q,J
PCB-175	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-176	NC	ng/L	0.041U	0.038U	0.0027Q,J	0.039U	0.039U
PCB-177	NC	ng/L	0.041U	0.0018J	0.013J	0.039U	0.039U
PCB-178	NC	ng/L	0.041U	0.038U	0.0041J	0.039U	0.039U
PCB-179	NC	ng/L	0.041U	0.0013J	0.0087J	0.039U	0.00093Q,J
PCB-18	NC	ng/L	0.0042B,C,J	0.0069Q,B,C,J	0.079B,C	0.0044Q,B,C,J	0.023B,C,J
PCB-180	NC	ng/L	0.0034Q,C,J	0.016C,J	0.06C	0.012C,J	0.0073C,J
PCB-181	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-182	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U

NOTES:
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C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 107
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-10 WB915-GRAVEL PIT 02/07/2013 Regular sample	SB915-3109-02 WB915-INTERBED 1 02/07/2013 Regular sample	SB915-3109-06 WB915-INTERBED 3 02/07/2013 Regular sample	SB915-3109-07 WB915-OUT-011 02/07/2013 Regular sample	SB915-3109-08 WB915-OUT-017 02/07/2013 Regular sample
PCB-183	NC	ng/L	0.041U	0.0059J	0.027J	0.039U	0.039U
PCB-184	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-185	NC	ng/L	0.041U	0.0024Q,C183,J	0.018C183,J	0.039U	0.039U
PCB-186	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-188	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-189	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-19	NC	ng/L	0.041U	0.038U	0.0085J	0.039U	0.0069J
PCB-190	NC	ng/L	0.041U	0.038U	0.0058Q,J	0.039U	0.039U
PCB-191	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-192	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-193	NC	ng/L	0.0034Q,C180,J	0.016C180,J	0.060C180	0.012C180,J	0.0073C180,J
PCB-194	NC	ng/L	0.041U	0.0027Q,J	0.0079Q,J	0.0013Q,J	0.039U
PCB-195	NC	ng/L	0.041U	0.038U	0.0024J	0.039U	0.039U
PCB-196/203	NC	ng/L	0.041U	0.001Q,J	0.0045J	0.039U	0.039U
PCB-197	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-198	NC	ng/L	0.00096C,J	0.0045C,J	0.014C,J	0.0024C,J	0.0021Q,C,J
PCB-199	NC	ng/L	0.00096C198,J	0.0045C198,J	0.014C198,J	0.0024C198,J	0.0021Q,C198,J
PCB-2	NC	ng/L	0.0021Q,B,J	0.038U	0.0025B,J	0.0018Q,B,J	0.0029B,J
PCB-20	NC	ng/L	0.0058B,C,J	0.015B,C,J	0.4B,C	0.006B,C,J	0.0093B,C,J
PCB-200	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-201	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-202	NC	ng/L	0.041U	0.038U	0.0025Q,J	0.039U	0.039U
PCB-204	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-205	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-206	NC	ng/L	0.041U	0.0026Q,J	0.0082J	0.0018Q,J	0.039U
PCB-207	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-208	NC	ng/L	0.041U	0.038U	0.0022Q,J	0.039U	0.039U
PCB-22	NC	ng/L	0.0018Q,B,J	0.0043Q,B,J	0.16B	0.0016B,J	0.0025B,J
PCB-23	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-24	NC	ng/L	0.041U	0.038U	0.0036J	0.039U	0.039U
PCB-25	NC	ng/L	0.041U	0.038U	0.016J	0.039U	0.00051Q,J
PCB-26	NC	ng/L	0.0009Q,C,J	0.0016C,J	0.034C,J	0.039U	0.001Q,C,J
PCB-27	NC	ng/L	0.041U	0.038U	0.014J	0.039U	0.039U
PCB-29	NC	ng/L	0.00090Q,C26,J	0.0016C26,J	0.034C26,J	0.039U	0.0010Q,C26,J
PCB-3	NC	ng/L	0.002Q,B,J	0.002B,J	0.0027B,J	0.0017B,J	0.0018Q,B,J
PCB-31	NC	ng/L	0.0049B,J	0.009B,J	0.18B	0.0053B,J	0.0083B,J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 107
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-10 WB915-GRAVEL PIT 02/07/2013 Regular sample	SB915-3109-02 WB915-INTERBED 1 02/07/2013 Regular sample	SB915-3109-06 WB915-INTERBED 3 02/07/2013 Regular sample	SB915-3109-07 WB915-OUT-011 02/07/2013 Regular sample	SB915-3109-08 WB915-OUT-017 02/07/2013 Regular sample
PCB-32	NC	ng/L	0.0022B,J	0.0028B,J	0.062B	0.0014Q,B,J	0.0041B,J
PCB-33	NC	ng/L	0.0033B,C21,J	0.0034B,C21,J	0.032B,C21,J	0.0025Q,B,C21,J	0.0037B,C21,J
PCB-34	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-35	NC	ng/L	0.041U	0.038U	0.0039Q,J	0.039U	0.039U
PCB-36	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-37	NC	ng/L	0.0016J	0.0043J	0.13	0.0014J	0.0022J
PCB-38	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-39	NC	ng/L	0.041U	0.038U	0.0016J	0.039U	0.039U
PCB-4	NC	ng/L	0.0041Q,B,J	0.0029Q,B,J	0.0076Q,B,J	0.003Q,B,J	0.074B
PCB-40	NC	ng/L	0.0018C,J	0.0038Q,C,J	0.17C	0.0025C,J	0.0016Q,C,J
PCB-41	NC	ng/L	0.0018C40,J	0.0038Q,C40,J	0.17C40	0.0025C40,J	0.0016Q,C40,J
PCB-42	NC	ng/L	0.041U	0.0018Q,J	0.089	0.0012J	0.039U
PCB-43	NC	ng/L	0.041U	0.038U	0.009C,J	0.039U	0.039U
PCB-44	NC	ng/L	0.005Q,B,C,J	0.012B,C,J	0.32B,C	0.0074B,C,J	0.0069Q,B,C,J
PCB-45	NC	ng/L	0.041U	0.0023Q,C,J	0.04C,J	0.0011Q,C,J	0.002Q,C,J
PCB-46	NC	ng/L	0.041U	0.038U	0.011J	0.039U	0.039U
PCB-47	NC	ng/L	0.0050Q,B,C44,J	0.012B,C44,J	0.32B,C44	0.0074B,C44,J	0.0069Q,B,C44,J
PCB-48	NC	ng/L	0.041U	0.0014J	0.04J	0.039U	0.039U
PCB-49	NC	ng/L	0.0019C,J	0.0067C,J	0.19C	0.0049C,J	0.0036C,J
PCB-5	NC	ng/L	0.00097Q,J	0.038U	0.00072Q,J	0.0012Q,J	0.0033Q,J
PCB-50	NC	ng/L	0.041U	0.0021C,J	0.03C,J	0.039U	0.0012Q,C,J
PCB-51	NC	ng/L	0.041U	0.0023Q,C45,J	0.040C45,J	0.0011Q,C45,J	0.0020Q,C45,J
PCB-53	NC	ng/L	0.041U	0.0021C50,J	0.030C50,J	0.039U	0.0012Q,C50,J
PCB-54	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-55	NC	ng/L	0.041U	0.038U	0.019J	0.00064Q,J	0.0018Q,J
PCB-56	NC	ng/L	0.0011Q,J	0.0045Q,J	0.19	0.0019J	0.0013Q,J
PCB-57	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-58	NC	ng/L	0.041U	0.038U	0.01Q,J	0.039U	0.039U
PCB-6	NC	ng/L	0.0021Q,B,J	0.0015Q,B,J	0.0088Q,B,J	0.0015Q,B,J	0.0055Q,B,J
PCB-61	NC	ng/L	0.0065B,C,J	0.019B,C,J	0.57B,C	0.011B,C,J	0.0074Q,B,C,J
PCB-62	NC	ng/L	0.041U	0.038U	0.032C59,J	0.039U	0.039U
PCB-63	NC	ng/L	0.041U	0.038U	0.014J	0.039U	0.039U
PCB-65	NC	ng/L	0.0050Q,B,C44,J	0.012B,C44,J	0.32B,C44	0.0074B,C44,J	0.0069Q,B,C44,J
PCB-66	NC	ng/L	0.002Q,B,J	0.013B,J	0.38B	0.0074B,J	0.0042B,J
PCB-67	NC	ng/L	0.041U	0.038U	0.011J	0.039U	0.039U
PCB-68	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U

NOTES:
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Table 107
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-10 WB915-GRAVEL PIT 02/07/2013 Regular sample	SB915-3109-02 WB915-INTERBED 1 02/07/2013 Regular sample	SB915-3109-06 WB915-INTERBED 3 02/07/2013 Regular sample	SB915-3109-07 WB915-OUT-011 02/07/2013 Regular sample	SB915-3109-08 WB915-OUT-017 02/07/2013 Regular sample
PCB-69	NC	ng/L	0.0019C49,J	0.0067C49,J	0.19C49	0.0049C49,J	0.0036C49,J
PCB-7	NC	ng/L	0.00081Q,J	0.038U	0.002Q,J	0.0013Q,J	0.0021Q,J
PCB-70	NC	ng/L	0.0065B,C61,J	0.019B,C61,J	0.57B,C61	0.011B,C61,J	0.0074Q,B,C61,J
PCB-71	NC	ng/L	0.0018C40,J	0.0038Q,C40,J	0.17C40	0.0025C40,J	0.0016Q,C40,J
PCB-73	NC	ng/L	0.041U	0.038U	0.009C43,J	0.039U	0.039U
PCB-74	NC	ng/L	0.0065B,C61,J	0.019B,C61,J	0.57B,C61	0.011B,C61,J	0.0074Q,B,C61,J
PCB-76/66	NC	ng/L	0.0065B,C61,J	0.019B,C61,J	0.57B,C61	0.011B,C61,J	0.0074Q,B,C61,J
PCB-77	NC	ng/L	0.041U	0.038U	0.029J	0.039U	0.039U
PCB-78	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-79	NC	ng/L	0.041U	0.038U	0.0041Q,J	0.039U	0.039U
PCB-8	NC	ng/L	0.006Q,B,J	0.0063Q,B,J	0.027Q,B,J	0.0056Q,B,J	0.014Q,B,J
PCB-80	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-81	NC	ng/L	0.041U	0.038U	0.0008Q,J	0.039U	0.039U
PCB-82	NC	ng/L	0.041U	0.038U	0.068	0.039U	0.039U
PCB-83	NC	ng/L	0.0041C,J	0.0076Q,C,J	0.3C	0.0079Q,C,J	0.0034Q,C,J
PCB-84	NC	ng/L	0.041U	0.038U	0.12	0.0018J	0.039U
PCB-85	NC	ng/L	0.041U	0.0027C,J	0.11C	0.0021C,J	0.039U
PCB-86	NC	ng/L	0.013Q,B,C,J	0.013Q,B,C,J	0.34B,C	0.014B,C,J	0.01Q,B,C,J
PCB-87	NC	ng/L	0.013Q,B,C86,J	0.013Q,B,C86,J	0.34B,C86	0.014B,C86,J	0.010Q,B,C86,J
PCB-88	NC	ng/L	0.041U	0.038U	0.067C	0.039U	0.039U
PCB-89	NC	ng/L	0.041U	0.038U	0.0044J	0.039U	0.039U
PCB-9	NC	ng/L	0.0012Q,J	0.00098Q,J	0.003Q,J	0.0017Q,J	0.0039Q,J
PCB-90	NC	ng/L	0.0053Q,B,C,J	0.012B,C,J	0.44B,C	0.01Q,B,C,J	0.0072B,C,J
PCB-92	NC	ng/L	0.041U	0.0017Q,J	0.063Q	0.0014Q,J	0.039U
PCB-93	NC	ng/L	0.041U	0.038U	0.0031Q,C,J	0.039U	0.039U
PCB-94	NC	ng/L	0.041U	0.038U	0.041U	0.039U	0.039U
PCB-95	NC	ng/L	0.0058J	0.0076J	0.34	0.0048Q,J	0.0062Q,J
PCB-96	NC	ng/L	0.041U	0.038U	0.0029J	0.039U	0.039U
PCB-97	NC	ng/L	0.013Q,B,C86,J	0.013Q,B,C86,J	0.34B,C86	0.014B,C86,J	0.010Q,B,C86,J
Total Di-CB	NC	ng/L	0.047EMPCU	0.033EMPCU	0.16EMPC	0.033EMPCU	0.15EMPC
Total Hepta-CB	NC	ng/L	0.0083EMPCJ	0.037EMPCJ	0.22EMPC	0.019EMPCJ	0.017EMPCJ
Total Hexa-CB	NC	ng/L	0.035EMPCJ	0.074EMPCJ	1.4EMPC	0.044EMPCJ	0.035EMPCJ
Total Mono-CB	NC	ng/L	0.0041EMPCU	0.0032EMPCU	0.0075U	0.0035EMPCU	0.021EMPCJ
Total Nona-CB	NC	ng/L	0.041U	0.0026EMPCJ	0.010EMPCJ	0.0018EMPCJ	0.039U
Total Octa-CB	NC	ng/L	0.00096J	0.010JEMPCJ	0.038EMPCJ	0.0037EMPCJ	0.0035EMPCJ
Total Penta-CB	NC	ng/L	0.054EMPCU	0.084EMPCJ	3.1EMPC	0.069EMPCJ	0.046EMPCU

NOTES:
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Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 107
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

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Total Tetra-CB	NC	ng/L	0.026EMPCU	0.085EMPCJ	2.9EMPC	0.053EMPCU	0.040EMPCU
Total Tri-CB	NC	ng/L	0.028EMPCU	0.053EMPCU	1.2EMPC	0.026EMPCU	0.076EMPCJ

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Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3107-09 WB915-OUT-019 02/06/2013 Regular sample	SB915-3109-01 WB915-POND AREA N OF WB11 02/07/2013 Regular sample	SB915-3107-06 WB915-REACH A 02/06/2013 Regular sample	SB915-3109-12 WB915-RET POND2-1 02/07/2013 Regular sample
TOTAL PCBs	0.001(S)	ng/L	[0.18689]	[0.478673]	[0.65106]	[0.52949]
10-DiCB	NC	ng/L	0.041U	0.039U	0.041U	0.23Q,J
109-PeCB	NC	ng/L	0.0071Q,B,C86,J	0.011Q,B,C86,J	0.012Q,B,C86,J	1.6Q,B,C86,J
112-PeCB	NC	ng/L	0.041U	0.039U	0.041U	2.3U
142-HxCB	NC	ng/L	0.041U	0.039U	0.041U	2.3U
143-HxCB	NC	ng/L	0.041U	0.039U	0.041U	2.3U
160-HxCB	NC	ng/L	0.0033Q,B,C129,J	0.016B,C129,J	0.006B,C129,J	1.5Q,C129,J
161-HxCB	NC	ng/L	0.041U	0.039U	0.041U	2.3U
162-HxCB	NC	ng/L	0.041U	0.039U	0.041U	2.3U
164-HxCB	NC	ng/L	0.041U	0.039U	0.041U	2.3U
165-HxCB	NC	ng/L	0.041U	0.039U	0.041U	2.3U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	ng/L	0.041U	0.0012Q,J	0.0024J	2.1Q,J
203-OcCB	NC	ng/L	0.041U	0.039U	0.041U	2.3U
21-TrCB C33	NC	ng/L	0.0019B,C,J	0.0034B,C,J	0.0064B,C,J	10B,C
59-TeCB C62/75	NC	ng/L	0.041U	0.039U	0.0011Q,C,J	0.53Q,C,J
64-TeCB	NC	ng/L	0.0011Q,J	0.0023J	0.0087J	1.7Q,J
72-TeCB	NC	ng/L	0.041U	0.039U	0.041U	2.3U
98-PeCB C102	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB 101	NC	ng/L	0.0037B,C90,J	0.0084Q,B,C90,J	0.0093B,C90,J	2.2C90,J
PCB 102 (BZ)	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB 115 (BZ)	NC	ng/L	0.0039B,C110,J	0.012B,C110,J	0.0088Q,B,C110,J	2.4Q,C110
PCB 116 (BZ)	NC	ng/L	0.041U	0.0018Q,C85,J	0.0013Q,C85,J	0.55Q,C85,J
PCB 117 (BZ)	NC	ng/L	0.041U	0.0018Q,C85,J	0.0013Q,C85,J	0.55Q,C85,J
PCB 118	NC	ng/L	0.0034Q,B,J	0.01Q,B,J	0.0072B,J	2.9
PCB 125 (BZ)	NC	ng/L	0.0071Q,B,C86,J	0.011Q,B,C86,J	0.012Q,B,C86,J	1.6Q,B,C86,J
PCB 13 (BZ)	NC	ng/L	0.0013Q,B,C12,J	0.0012Q,B,C12,J	0.0012Q,B,C12,J	1.5Q,C12,J
PCB 138	NC	ng/L	0.0033Q,B,C129,J	0.016B,C129,J	0.0060B,C129,J	1.5Q,C129,J
PCB 153	NC	ng/L	0.0039B,C,J	0.014B,C,J	0.0055B,C,J	1.2B,C,J
PCB 163 (BZ)	NC	ng/L	0.0033Q,B,C129,J	0.016B,C129,J	0.0060B,C129,J	1.5Q,C129,J
PCB 209	NC	ng/L	0.041U	0.039U	0.0035Q,J	2.3U
PCB 28	NC	ng/L	0.0033B,C20,J	0.0059B,C20,J	0.016B,C20,J	18B,C20
PCB 30	NC	ng/L	0.0032B,C18,J	0.0048B,C18,J	0.015B,C18,J	5.3B,C18
PCB 52	NC	ng/L	0.0039Q,B,J	0.009B,J	0.028B,J	11B
PCB 75 (BZ)	NC	ng/L	0.041U	0.039U	0.0011Q,C59,J	0.53Q,C59,J
PCB 91 (BZ)	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-1	NC	ng/L	0.041U	0.039U	0.0017Q,J	1.3B,J

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Table 107
Honeywell
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Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3107-09 WB915-OUT-019 02/06/2013 Regular sample	SB915-3109-01 WB915-POND AREA N OF WB11 02/07/2013 Regular sample	SB915-3107-06 WB915-REACH A 02/06/2013 Regular sample	SB915-3109-12 WB915-RET POND2-1 02/07/2013 Regular sample
PCB-100	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-103	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-104	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-105	NC	ng/L	0.0012Q,B,J	0.0044Q,B,J	0.0028B,J	1.3Q,J
PCB-106/118	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-107/109	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-108/107	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-11	NC	ng/L	0.012Q,B,J	0.017Q,B,J	0.012Q,B,J	18B
PCB-110	NC	ng/L	0.0039B,C,J	0.012B,C,J	0.0088Q,B,C,J	2.4Q,C
PCB-111	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-113	NC	ng/L	0.0037B,C90,J	0.0084Q,B,C90,J	0.0093B,C90,J	2.2C90,J
PCB-114	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-119	NC	ng/L	0.0071Q,B,C86,J	0.011Q,B,C86,J	0.012Q,B,C86,J	1.6Q,B,C86,J
PCB-12	NC	ng/L	0.0013Q,B,C,J	0.0012Q,B,C,J	0.0012Q,B,C,J	1.5Q,C,J
PCB-120	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-121	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-122	NC	ng/L	0.041U	0.039U	0.041U	0.36Q,J
PCB-123	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-124	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-126	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-127	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-128	NC	ng/L	0.041U	0.0016Q,C,J	0.041U	2.3U
PCB-129	NC	ng/L	0.0033Q,B,C,J	0.016B,C,J	0.006B,C,J	1.5Q,C,J
PCB-130	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-131	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-132	NC	ng/L	0.041U	0.0026J	0.0016Q,J	2.3U
PCB-133	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-134	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-135	NC	ng/L	0.041U	0.039U	0.041U	0.53Q,C,J
PCB-136	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-137	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-139	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-14	NC	ng/L	0.041U	0.039U	0.041U	0.22Q,J
PCB-140	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-141	NC	ng/L	0.041U	0.0018J	0.0011J	2.3U
PCB-144	NC	ng/L	0.041U	0.039U	0.041U	2.3U

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Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
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PCB-145	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-146	NC	ng/L	0.041U	0.0017J	0.041U	2.3U
PCB-147	NC	ng/L	0.0027C,J	0.0067C,J	0.0044C,J	0.84C,J
PCB-148	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-149	NC	ng/L	0.0027C147,J	0.0067C147,J	0.0044C147,J	0.84C147,J
PCB-15	NC	ng/L	0.0023Q,B,J	0.0026Q,B,J	0.003Q,B,J	2.7Q,B
PCB-150	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-151	NC	ng/L	0.041U	0.039U	0.041U	0.53Q,C135,J
PCB-152	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-153	NC	ng/L	0.0014Q,C83,J	0.0071C83,J	0.0047Q,C83,J	1.7C83,J
PCB-154	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-155	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-156	NC	ng/L	0.041U	0.0013Q,C,J	0.041U	2.3U
PCB-157	NC	ng/L	0.041U	0.0013Q,C156,J	0.041U	2.3U
PCB-158	NC	ng/L	0.041U	0.00079J	0.041U	2.3U
PCB-159	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-16	NC	ng/L	0.041U	0.0024Q,B,J	0.0045Q,B,J	1.8J
PCB-166	NC	ng/L	0.041U	0.0016Q,C128,J	0.041U	2.3U
PCB-167	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-168	NC	ng/L	0.0039B,C153,J	0.014B,C153,J	0.0055B,C153,J	1.2B,C153,J
PCB-169	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-17	NC	ng/L	0.041U	0.0015Q,J	0.0057J	2.2J
PCB-170	NC	ng/L	0.041U	0.0023Q,J	0.0015Q,J	2.3U
PCB-171	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-172	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-173	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-174	NC	ng/L	0.00071Q,J	0.0021J	0.0017Q,J	2.3U
PCB-175	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-176	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-177	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-178	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-179	NC	ng/L	0.041U	0.039U	0.00072Q,J	2.3U
PCB-18	NC	ng/L	0.0032B,C,J	0.0048B,C,J	0.015B,C,J	5.3B,C
PCB-180	NC	ng/L	0.0031C,J	0.006C,J	0.0031Q,C,J	2.3U
PCB-181	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-182	NC	ng/L	0.041U	0.039U	0.041U	2.3U

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PCB-183	NC	ng/L	0.041U	0.0027Q,J	0.041U	2.3U
PCB-184	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-185	NC	ng/L	0.041U	0.00099Q,C183,J	0.041U	2.3U
PCB-186	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-188	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-189	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-19	NC	ng/L	0.041U	0.039U	0.041U	0.76J
PCB-190	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-191	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-192	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-193	NC	ng/L	0.0031C180,J	0.0060C180,J	0.0031Q,C180,J	2.3U
PCB-194	NC	ng/L	0.041U	0.0014Q,J	0.041U	2.3U
PCB-195	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-196/203	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-197	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-198	NC	ng/L	0.041U	0.0024C,J	0.0028C,J	2.3U
PCB-199	NC	ng/L	0.041U	0.0024C198,J	0.0028C198,J	2.3U
PCB-2	NC	ng/L	0.041U	0.0014B,J	0.0017B,J	0.72J
PCB-20	NC	ng/L	0.0033B,C,J	0.0059B,C,J	0.016B,C,J	18B,C
PCB-200	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-201	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-202	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-204	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-205	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-206	NC	ng/L	0.041U	0.039U	0.0036J	2.3U
PCB-207	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-208	NC	ng/L	0.041U	0.039U	0.0019Q,J	2.3U
PCB-22	NC	ng/L	0.0016B,J	0.0025B,J	0.0048B,J	6.2B
PCB-23	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-24	NC	ng/L	0.041U	0.039U	0.041U	0.11Q,J
PCB-25	NC	ng/L	0.041U	0.039U	0.0013J	1.8Q,J
PCB-26	NC	ng/L	0.041U	0.001Q,C,J	0.0018Q,C,J	3.5C
PCB-27	NC	ng/L	0.041U	0.039U	0.041U	0.31J
PCB-29	NC	ng/L	0.041U	0.0010Q,C26,J	0.0018Q,C26,J	3.5C26
PCB-3	NC	ng/L	0.041U	0.039U	0.0013Q,B,J	1.9Q,B,J
PCB-31	NC	ng/L	0.0037B,J	0.0049Q,B,J	0.012B,J	16B

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 107
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3107-09 WB915-OUT-019 02/06/2013 Regular sample	SB915-3109-01 WB915-POND AREA N OF WB11 02/07/2013 Regular sample	SB915-3107-06 WB915-REACH A 02/06/2013 Regular sample	SB915-3109-12 WB915-RET POND2-1 02/07/2013 Regular sample
PCB-32	NC	ng/L	0.041U	0.0024B,J	0.004Q,B,J	0.91Q,J
PCB-33	NC	ng/L	0.0019B,C21,J	0.0034B,C21,J	0.0064B,C21,J	10B,C21
PCB-34	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-35	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-36	NC	ng/L	0.041U	0.039U	0.041U	0.96Q,J
PCB-37	NC	ng/L	0.0008Q,J	0.0013Q,J	0.0015Q,J	3.5Q
PCB-38	NC	ng/L	0.041U	0.039U	0.041U	0.38Q,J
PCB-39	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-4	NC	ng/L	0.0015Q,B,J	0.0025Q,B,J	0.0062Q,B,J	2.4Q,J
PCB-40	NC	ng/L	0.041U	0.0017Q,C,J	0.0083C,J	4Q,C
PCB-41	NC	ng/L	0.041U	0.0017Q,C40,J	0.0083C40,J	4Q,C40
PCB-42	NC	ng/L	0.041U	0.00097Q,J	0.0038Q,J	2Q,J
PCB-43	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-44	NC	ng/L	0.0035Q,B,C,J	0.0095B,C,J	0.022B,C,J	10B,C
PCB-45	NC	ng/L	0.041U	0.039U	0.0041C,J	2.8C
PCB-46	NC	ng/L	0.041U	0.039U	0.041U	0.95Q,J
PCB-47	NC	ng/L	0.0035Q,B,C44,J	0.0095B,C44,J	0.022B,C44,J	10B,C44
PCB-48	NC	ng/L	0.041U	0.039U	0.0031J	1.8Q,J
PCB-49	NC	ng/L	0.0013Q,C,J	0.0031Q,C,J	0.011C,J	4.7C
PCB-5	NC	ng/L	0.041U	0.039U	0.041U	0.36Q,J
PCB-50	NC	ng/L	0.041U	0.039U	0.0029Q,C,J	1.2Q,C,J
PCB-51	NC	ng/L	0.041U	0.039U	0.0041C45,J	2.8C45
PCB-53	NC	ng/L	0.041U	0.039U	0.0029Q,C50,J	1.2Q,C50,J
PCB-54	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-55	NC	ng/L	0.041U	0.0011Q,J	0.041U	2.3U
PCB-56	NC	ng/L	0.041U	0.0016J	0.0041Q,J	2.4
PCB-57	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-58	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-6	NC	ng/L	0.001Q,B,J	0.0019Q,B,J	0.0024Q,B,J	3.1Q
PCB-61	NC	ng/L	0.0039B,C,J	0.0097B,C,J	0.021B,C,J	8.4B,C
PCB-62	NC	ng/L	0.041U	0.039U	0.0011Q,C59,J	0.53Q,C59,J
PCB-63	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-65	NC	ng/L	0.0035Q,B,C44,J	0.0095B,C44,J	0.022B,C44,J	10B,C44
PCB-66	NC	ng/L	0.0016Q,B,J	0.0042B,J	0.012B,J	4.1B
PCB-67	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-68	NC	ng/L	0.041U	0.039U	0.041U	2.3U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 107
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3107-09 WB915-OUT-019 02/06/2013 Regular sample	SB915-3109-01 WB915-POND AREA N OF WB11 02/07/2013 Regular sample	SB915-3107-06 WB915-REACH A 02/06/2013 Regular sample	SB915-3109-12 WB915-RET POND2-1 02/07/2013 Regular sample
PCB-69	NC	ng/L	0.0013Q,C49,J	0.0031Q,C49,J	0.011C49,J	4.7C49
PCB-7	NC	ng/L	0.00088Q,J	0.00094Q,J	0.041U	2.2Q,J
PCB-70	NC	ng/L	0.0039B,C61,J	0.0097B,C61,J	0.021B,C61,J	8.4B,C61
PCB-71	NC	ng/L	0.041U	0.0017Q,C40,J	0.0083C40,J	4Q,C40
PCB-73	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-74	NC	ng/L	0.0039B,C61,J	0.0097B,C61,J	0.021B,C61,J	8.4B,C61
PCB-76/66	NC	ng/L	0.0039B,C61,J	0.0097B,C61,J	0.021B,C61,J	8.4B,C61
PCB-77	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-78	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-79	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-8	NC	ng/L	0.0037Q,B,J	0.005Q,B,J	0.006Q,B,J	11B,S
PCB-80	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-81	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-82	NC	ng/L	0.041U	0.039U	0.041U	0.75Q,J
PCB-83	NC	ng/L	0.0014Q,C,J	0.0071C,J	0.0047Q,C,J	1.7C,J
PCB-84	NC	ng/L	0.041U	0.039U	0.0029J	2.3U
PCB-85	NC	ng/L	0.041U	0.0018Q,C,J	0.0013Q,C,J	0.55Q,C,J
PCB-86	NC	ng/L	0.0071Q,B,C,J	0.011Q,B,C,J	0.012Q,B,C,J	1.6Q,B,C,J
PCB-87	NC	ng/L	0.0071Q,B,C86,J	0.011Q,B,C86,J	0.012Q,B,C86,J	1.6Q,B,C86,J
PCB-88	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-89	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-9	NC	ng/L	0.041U	0.039U	0.00094Q,J	1.3J
PCB-90	NC	ng/L	0.0037B,C,J	0.0084Q,B,C,J	0.0093B,C,J	2.2C,J
PCB-92	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-93	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-94	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-95	NC	ng/L	0.0025J	0.0071Q,J	0.01J	2.8
PCB-96	NC	ng/L	0.041U	0.039U	0.041U	2.3U
PCB-97	NC	ng/L	0.0071Q,B,C86,J	0.011Q,B,C86,J	0.012Q,B,C86,J	1.6Q,B,C86,J
Total Di-CB	NC	ng/L	0.022EMPCU	0.031EMPCU	0.032EMPCU	0.040EMPCU
Total Hepta-CB	NC	ng/L	0.0038EMPC	0.014EMPCJ	0.0090EMPC	0.013EMPCJ
Total Hexa-CB	NC	ng/L	0.010EMPCU	0.047EMPCJ	0.019EMPC	0.032EMPCJ
Total Mono-CB	NC	ng/L	0.041U	0.0014U	0.0047EMPCU	0.0077UJ
Total Nona-CB	NC	ng/L	0.041U	0.039U	0.0055EMPCJ	0.038U
Total Octa-CB	NC	ng/L	0.041U	0.0038EMPCJ	0.0028J	0.0036EMPCJ
Total Penta-CB	NC	ng/L	0.023EMPCU	0.062EMPCJ	0.059EMPC	0.067EMPCJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 107
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water (Water Samples)
Method 1668 PCB Congeners and Homologs

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3107-09 WB915-OUT-019 02/06/2013 Regular sample	SB915-3109-01 WB915-POND AREA N OF WB11 02/07/2013 Regular sample	SB915-3107-06 WB915-REACH A 02/06/2013 Regular sample	SB915-3109-12 WB915-RET POND2-1 02/07/2013 Regular sample
Total Tetra-CB	NC	ng/L	0.015EMPCU	0.044EMPCU	0.13EMPC	0.060EMPCJ
Total Tri-CB	NC	ng/L	0.015EMPCU	0.030EMPCU	0.073EMPCU	0.047EMPCU

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer; EMPC = Estimate maximum concentration. NC - No criteria; NA - Not Analyzed. NC - No criteria; NA - Not Analyzed.
Total PCBs determined by summing the detected PCB congeners.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 108
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-10 WB915-GRAVEL PIT 02/07/2013 Regular sample	SB915-3109-02 WB915-INTERBED 1 02/07/2013 Regular sample	SB915-3109-05 WB915-INTERBED 2 02/07/2013 Regular sample	SB915-3109-06 WB915-INTERBED 3 02/07/2013 Regular sample
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	100	390	420	460
IRON	0.3(S)	NC	mg/L	1U	1U	[1.6]	[1]
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.15U	0.15U	0.15U	0.15U
POTASSIUM	NC	NC	mg/L	50U	50U	50U	50U
SODIUM	NC	NC	mg/L	52	210	230	260

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 108
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3107-08 WB915-IRON BROOK 02/06/2013 Regular sample	SB915-3109-07 WB915-OUT-011 02/07/2013 Regular sample	SB915-3109-08 WB915-OUT-017 02/07/2013 Regular sample	SB915-3107-09 WB915-OUT-019 02/06/2013 Regular sample
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	460	360	1000	420
IRON	0.3(S)	NC	mg/L	1U	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.15U	0.15U	0.15U	0.15U
POTASSIUM	NC	NC	mg/L	50U	50U	50U	50U
SODIUM	NC	NC	mg/L	560	200	1100	280

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 108
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-01 WB915-POND AREA N OF WB11 02/07/2013 Regular sample	SB915-3107-06 WB915-REACH A 02/06/2013 Regular sample	SB915-3107-05 WB915-REACH B 02/06/2013 Regular sample	SB915-3107-04 WB915-REACH C 02/06/2013 Regular sample
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	230	170	170	170
IRON	0.3(S)	NC	mg/L	1U	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.2	0.15U	0.15U	0.15U
POTASSIUM	NC	NC	mg/L	50U	50U	50U	50U
SODIUM	NC	NC	mg/L	110	50U	50U	63

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 108
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3107-03 WB915-REACH D 02/06/2013 Regular sample	SB915-3107-02 WB915-REACH E 02/06/2013 Regular sample	SB915-3107-01 WB915-REACH F 02/06/2013 Regular sample	SB915-3107-07 WB915-REF REACH 02/06/2013 Regular sample
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	180	250	240	170
IRON	0.3(S)	NC	mg/L	1U	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.15U	0.15U	0.15U	0.15U
POTASSIUM	NC	NC	mg/L	50U	50U	50U	50U
SODIUM	NC	NC	mg/L	73	130	120	50U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 108
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water
Inorganic Compound Data

Parameter Name	New York State Class C Standards	New York State Class C Standards (hardness dependent)	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-11 WB915-RET POND1 02/07/2013 Regular sample	SB915-3109-12 WB915-RET POND2-1 02/07/2013 Regular sample	SB915-3110-01 WB915-RET POND2-2 02/07/2013 Regular sample
CADMIUM	NC	23.825	mg/L	0.05U	0.05U	0.05U
CALCIUM	NC	NC	mg/L	1300	1600	1700
IRON	0.3(S)	NC	mg/L	1U	1U	1U
LEAD	NC	83.768	mg/L	0.03U	0.03U	0.03U
MAGNESIUM	NC	NC	mg/L	50U	50U	50U
MANGANESE	NC	NC	mg/L	0.28	0.2	0.24
POTASSIUM	NC	NC	mg/L	50U	58	60
SODIUM	NC	NC	mg/L	830	1300	1400

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).
Hardness dependent criteria calculated using all surface water sample average hardness of 2212.6 mg/L; this criteria are for the dissolved form of the metal.

Table 109
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-10 WB915-GRAVEL PIT 02/07/2013 Regular sample	SB915-3109-02 WB915-INTERBED 1 02/07/2013 Regular sample	SB915-3109-05 WB915-INTERBED 2 02/07/2013 Regular sample	SB915-3109-06 WB915-INTERBED 3 02/07/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	180	130	150	120
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	180	130	150	120
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.1	2.3	3.5
BROMIDE	NC	mg/L	0.50U	1.3U	1.3U	1.3U
CHEMICAL OXYGEN DEMAND	NC	mg/L	28	43	150	81
CHLORIDE	NC	mg/L	93	840	1100	1200
HARDNESS (AS CACO3)	NC	mg/L	340	1100	1300	1200
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.10UJ	0.70J	0.57J	0.66J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.31	0.35	0.34	0.25U
SULFATE	NC	mg/L	140	78	74	65
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	480	1400	2000	2100
TOTAL ORGANIC CARBON	NC	mg/L	4.1	4.4	5.1	4.7
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.010UJ	0.054J	0.010UJ	0.010UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blank.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 109
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3107-08 WB915-IRON BROOK 02/06/2013 Regular sample	SB915-3109-07 WB915-OUT-011 02/07/2013 Regular sample	SB915-3109-08 WB915-OUT-017 02/07/2013 Regular sample	SB915-3107-09 WB915-OUT-019 02/06/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	280	190	32	170
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	280	190	32	170
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	2.0U	2.0U	2.0U
BROMIDE	NC	mg/L	2.5U	1.3U	5.0U	1.3U
CHEMICAL OXYGEN DEMAND	NC	mg/L	150	64	530	110
CHLORIDE	NC	mg/L	1400	1300	3900	1100
HARDNESS (AS CACO3)	NC	mg/L	1300	930	2900	1100
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.41	0.34J	2.8J	0.14
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	2.3	0.25U	1	2.7
SULFATE	NC	mg/L	340	56	73	59
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	2800	2200	6200	2000
TOTAL ORGANIC CARBON	NC	mg/L	2.4	3.4	1.8	2.8
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.010UJ	0.010UJ	0.039J	0.010UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method bl
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 109
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-01 WB915-POND AREA N OF WB11 02/07/2013 Regular sample	SB915-3107-06 WB915-REACH A 02/06/2013 Regular sample	SB915-3107-05 WB915-REACH B 02/06/2013 Regular sample	SB915-3107-04 WB915-REACH C 02/06/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	210	240	250	240
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	210	240	250	240
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	6.0U	2.0U	6.0U	2.0U
BROMIDE	NC	mg/L	0.50U	0.50U	0.50U	0.50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	30	180	15	15
CHLORIDE	NC	mg/L	420	85	86	120
HARDNESS (AS CACO3)	NC	mg/L	680	580	560	540
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.18J	0.18	0.17	0.15
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	0.10U	1.5	1.5	1.4
SULFATE	NC	mg/L	92	300	290	270
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	950	710	800	690
TOTAL ORGANIC CARBON	NC	mg/L	4.8	2	2.1	2.3
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.010UJ	0.011J	0.010UJ	0.010UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blank.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 109
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3107-03 WB915-REACH D 02/06/2013 Regular sample	SB915-3107-02 WB915-REACH E 02/06/2013 Regular sample	SB915-3107-01 WB915-REACH F 02/06/2013 Regular sample	SB915-3107-07 WB915-REF REACH 02/06/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	240	230	230	240
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	240	230	230	240
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.0U	6.0U	6.0U	2.0U
BROMIDE	NC	mg/L	0.50U	0.50U	0.50U	0.50U
CHEMICAL OXYGEN DEMAND	NC	mg/L	10	57	68	21
CHLORIDE	NC	mg/L	170	380	370	85
HARDNESS (AS CACO3)	NC	mg/L	600	770	740	560
NITROGEN, AMMONIA (AS N)	NC	mg/L	0.28	0.38	0.41	0.12
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.0U	5.0U	5.0U
NITROGEN, NITRATE (AS N)	NC	mg/L	1.5	1.4	1.4	1.5
SULFATE	NC	mg/L	260	250	250	300
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	790	1100	1800	680
TOTAL ORGANIC CARBON	NC	mg/L	2.4	2.3	2.2	2.1
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.010UJ	0.083J	0.010UJ	0.010UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blanl
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 109
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Surface Water
Other Data

Parameter Name	New York State Class C Standards	Field Sample ID Location Sample Date Sample Purpose Units	SB915-3109-11 WB915-RET POND1 02/07/2013 Regular sample	SB915-3109-12 WB915-RET POND2-1 02/07/2013 Regular sample	SB915-3110-01 WB915-RET POND2-2 02/07/2013 Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	mg/L	89	130	130
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	5.0U	5.0U	5.0U
ALKALINITY, TOTAL	NC	mg/L	89	130	130
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	mg/L	2.2	2.0U	2.0U
BROMIDE	NC	mg/L	5.0U	5.0U	5.0U
CHEMICAL OXYGEN DEMAND	NC	mg/L	490	500	710
CHLORIDE	NC	mg/L	3600	5000	5100
HARDNESS (AS CACO3)	NC	mg/L	3600	4300	4200
NITROGEN, AMMONIA (AS N)	NC	mg/L	1.6J	4.3J	4.9J
NITROGEN, KJELDAHL, TOTAL	NC	mg/L	5.0U	5.1	5.7
NITROGEN, NITRATE (AS N)	NC	mg/L	1.0U	1.0U	1.0U
SULFATE	NC	mg/L	58	320	370
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	mg/L	5200	7800	8000
TOTAL ORGANIC CARBON	NC	mg/L	2.6	1.8	2
TOTAL RECOVERABLE PHENOLICS	NC	mg/L	0.18J	0.15J	0.16J

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value; B - Detected in associated method blank.
NA = Analyte not analyzed for; NC = No applicable criteria.
[ ] = Result exceeds Class C standard (S) or guidance value (G).

Table 110
Honeywell
Wastebeds 9-15 Closure Investigation
Site Surface Water
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class C Criteria	New York State Class C Criteria (hardness dependent)	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
VOCs									
BENZENE	10(S)	NC	µg/L	12	1	0.59	0.59	0.59	0
ACETONE	NC	NC	µg/L	12	8	2.80	8.39	31.0	NA
2-BUTANONE	NC	NC	µg/L	12	2	1.90	2.25	2.60	NA
CARBON DISULFIDE	NC	NC	µg/L	12	2	0.27	0.45	0.63	NA
SVOCs									
BIS(2-ETHYLHEXYL)PHTHALATE	0.6(S)	NC	µg/L	12	6	1.20	3.25	8.30	6
PHENANTHRENE	5(G)	NC	µg/L	12	7	0.05	0.06	0.10	0
NAPHTHALENE	13(G)	NC	µg/L	12	3	0.05	0.09	0.16	0
2-METHYLNAPHTHALENE	4.7(G)	NC	µg/L	12	1	0.01	0.01	0.01	0
PHENOL	5(S)	NC	µg/L	12	1	0.21	0.21	0.21	0
PYRENE	4.6(G)	NC	µg/L	12	1	0.02	0.02	0.02	0
FLUORANTHENE	NC	NC	µg/L	12	6	0.02	0.02	0.02	NA
BUTYLBENZYL PHTHALATE	NC	NC	µg/L	12	3	0.15	0.23	0.27	NA
ACETOPHENONE	NC	NC	µg/L	12	2	0.11	0.40	0.68	NA
N-NITROSOMETHYLETHYLAMINE	NC	NC	µg/L	12	2	0.41	1.76	3.10	NA
3&4-METHYLPHENOL	NC	NC	µg/L	12	1	0.10	0.10	0.10	NA
DI-N-BUTYL PHTHALATE	NC	NC	µg/L	12	1	0.14	0.14	0.14	NA
Pesticides (Water Samples)									
GAMMA-BHC (LINDANE)	NC	NC	µg/L	7	1	0.002	0.002	0.002	NA
Pesticides (PISCES Samples[1])									
ENDRIN ALDEHYDE	NC	NC	µg/L	5	5	0.22	1.43	4.60	NA
HEPTACHLOR EPOXIDE	NC	NC	µg/L	5	5	0.10	1.04	2.60	NA
4,4'-DDE	NC	NC	µg/L	5	4	1.10	2.85	5.80	NA
4,4'-DDT	NC	NC	µg/L	5	4	2.00	3.00	5.00	NA
ALDRIN	NC	NC	µg/L	5	4	0.26	0.60	1.00	NA
ENDOSULFAN SULFATE	NC	NC	µg/L	5	4	0.13	0.81	1.40	NA
HEPTACHLOR	NC	NC	µg/L	5	4	0.29	0.57	0.99	NA
METHOXYCHLOR	NC	NC	µg/L	5	4	3.80	5.63	7.00	NA
4,4'-DDD	NC	NC	µg/L	5	3	0.31	1.57	2.90	NA
BETA-BHC	NC	NC	µg/L	5	3	0.19	1.26	2.40	NA
DELTA-BHC	NC	NC	µg/L	5	3	0.21	0.84	1.60	NA
DIELDRIN	NC	NC	µg/L	5	3	0.51	1.16	2.10	NA
ALPHA-BHC	NC	NC	µg/L	5	2	0.16	0.19	0.21	NA
ENDOSULFAN I	NC	NC	µg/L	5	2	0.14	0.23	0.31	NA
ENDOSULFAN II	NC	NC	µg/L	5	2	0.22	0.24	0.26	NA
ENDRIN	NC	NC	µg/L	5	1	0.21	0.21	0.21	NA
High Resolution PCBs (Water Samples)									
TOTAL PCBS	0.001(S)	NC	ng/L	13	13	0.19	31.8	389	13
High Resolution PCBs (PISCES Samples[1])									
TOTAL PCBS	NC	NC	ng/L	6	6	0.48	239	622	NA
Dioxins/Furans									
TOTAL TEQ	0.0000006(S)	NC	ng/L	12	7	0.0000005	0.0002	0.0009	6
Inorganic Compounds									
MERCURY	0.0000007(S)	NC	mg/L	12	12	0.0000007	0.000006	0.00003	12
IRON	0.3(S)	NC	mg/L	42	12	0.11	1.06	4.90	9
ALUMINUM	0.1(S)	NC	mg/L	21	1	0.29	0.29	0.29	1
CYANIDE	0.0052(S)	NC	mg/L	12	3	0.003	0.004	0.007	1
COBALT	0.005(S)	NC	mg/L	21	2	0.0005	0.0007	0.0008	0
ZINC	NC	1148.985	mg/L	21	7	0.003	0.004	0.005	0
NICKEL	NC	714.242	mg/L	21	4	0.002	0.002	0.003	0
ARSENIC	0.15(S)	NC	mg/L	21	2	0.003	0.003	0.003	0
VANADIUM	0.014(S)	NC	mg/L	21	2	0.002	0.002	0.002	0
CHROMIUM	NC	936.22	mg/L	21	1	0.0008	0.0008	0.0008	0
HEXAVALENT CHROMIUM	0.011(S)	NC	mg/L	12	6	0.0007	0.0008	0.001	0
CALCIUM	NC	NC	mg/L	42	42	68	1,198	2,700	NA
SODIUM	NC	NC	mg/L	42	41	52	873	1,900	NA
POTASSIUM	NC	NC	mg/L	42	22	6.30	75.3	160	NA
MANGANESE	NC	NC	mg/L	42	15	0.02	0.43	2.10	NA
MAGNESIUM	NC	NC	mg/L	42	9	5.90	22.8	42.0	NA
BARIUM	NC	NC	mg/L	21	9	0.07	0.58	0.95	NA
Other Parameters									
ALKALINITY, BICARBONATE (AS CACO3)	NC	NC	mg/L	42	42	32.0	120	330	NA
ALKALINITY, TOTAL	NC	NC	mg/L	42	42	32.0	121	330	NA
CHEMICAL OXYGEN DEMAND	NC	NC	mg/L	42	42	16.0	386	3,600	NA
CHLORIDE	NC	NC	mg/L	42	42	93.0	3,505	7,400	NA
HARDNESS (AS CACO3)	NC	NC	mg/L	42	42	290	3,214	6,500	NA
SULFATE	NC	NC	mg/L	42	42	19.0	184	510	NA
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	NC	mg/L	42	42	480	6,985	19,000	NA
TOTAL ORGANIC CARBON	NC	NC	mg/L	42	39	1.50	3.86	12.0	NA
NITROGEN, AMMONIA (AS N)	NC	NC	mg/L	42	36	0.10	1.36	4.90	NA
TOTAL RECOVERABLE PHENOLICS	NC	NC	mg/L	42	27	0.007	0.09	0.67	NA
NITROGEN, NITRATE (AS N)	NC	NC	mg/L	42	16	0.22	1.25	3.50	NA
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	NC	mg/L	42	14	1.40	3.06	9.50	NA
BROMIDE	NC	NC	mg/L	42	11	1.70	2.99	3.80	NA
NITROGEN, KJELDAHL, TOTAL	NC	NC	mg/L	42	2	5.10	5.40	5.70	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	NC	mg/L	42	1	8.60	8.60	8.60	NA

NOTES:
NC = no applicable criteria; NA = not available as no applicable criteria.
1 - Pesticides and PCB PISCES samples were not compared to NYS Class C Surface Water Standards since they represent uptake in aquatic organisms and are not water samples.

Table 111
Honeywell
Wastebeds 9-15 Closure Investigation
Ninemile Creek Surface Water
Summary Statistics for Detected Concentrations and Comparison to Standards and Guidance Values

Parameter Name	New York State Class C Criteria	New York State Class C Criteria (hardness dependent)	Units	Total Count	No. of Detects	Minimum Detected Concentration	Average Detected Concentration	Maximum Detected Concentration	Exceeds
VOCs									
1,4-DICHLOROBENZENE	5(S)	NC	µg/L	7	4	0.42	0.54	0.66	0
CHLOROBENZENE	5(S)	NC	µg/L	7	4	0.71	0.99	1.30	0
1,2-DICHLOROBENZENE	5(S)	NC	µg/L	7	1	0.19	0.19	0.19	0
1,2-DICHLOROETHANE	NC	NC	µg/L	7	2	0.24	0.25	0.25	NA
SVOCs									
BENZO(A)ANTHRACENE	0.03(G)	NC	µg/L	7	3	0.03	0.28	0.61	3
BENZO(A)PYRENE	0.0012(G)	NC	µg/L	7	2	0.15	0.32	0.49	2
PYRENE	4.6(G)	NC	µg/L	7	3	0.03	0.06	0.11	0
BENZO(B)FLUORANTHENE	NC	NC	µg/L	7	3	0.03	0.29	0.65	NA
BUTYLBENZYL PHTHALATE	NC	NC	µg/L	7	3	0.17	0.21	0.24	NA
CHRYSENE	NC	NC	µg/L	7	3	0.04	0.31	0.66	NA
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	NC	µg/L	7	2	0.11	0.17	0.22	NA
BENZO(G,H,I)PERYLENE	NC	NC	µg/L	7	2	0.21	0.41	0.61	NA
BENZO(K)FLUORANTHENE	NC	NC	µg/L	7	2	0.22	0.48	0.74	NA
DIBENZO(A,H)ANTHRACENE	NC	NC	µg/L	7	2	0.18	0.39	0.60	NA
INDENO(1,2,3-CD)PYRENE	NC	NC	µg/L	7	2	0.20	0.43	0.65	NA
Pesticides (PISCES Samples[1])									
ENDRIN ALDEHYDE	NC	NC	µg/L	6	6	0.56	1.46	4.60	NA
4,4'-DDT	NC	NC	µg/L	6	6	0.30	2.12	3.40	NA
HEPTACHLOR	NC	NC	µg/L	6	6	0.25	0.73	1.70	NA
METHOXYCHLOR	NC	NC	µg/L	6	6	0.52	5.62	17.00	NA
ENDOSULFAN II	NC	NC	µg/L	6	5	0.15	0.34	0.68	NA
ENDOSULFAN SULFATE	NC	NC	µg/L	6	5	0.13	0.76	1.30	NA
HEPTACHLOR EPOXIDE	NC	NC	µg/L	6	5	0.16	0.60	1.40	NA
4,4'-DDE	NC	NC	µg/L	6	4	2.80	7.08	10.0	NA
4,4'-DDD	NC	NC	µg/L	6	3	0.20	0.73	1.10	NA
DIELDRIN	NC	NC	µg/L	6	3	0.19	0.23	0.27	NA
ALDRIN	NC	NC	µg/L	6	2	0.18	0.22	0.25	NA
BETA-BHC	NC	NC	µg/L	6	1	1.80	1.80	1.80	NA
DELTA-BHC	NC	NC	µg/L	6	1	2.60	2.60	2.60	NA
ENDRIN	NC	NC	µg/L	6	1	0.63	0.63	0.63	NA
High Resolution PCBs (Water Samples)									
TOTAL PCBS	0.001(S)	NC	ng/L	2	2	0.65	1.09	1.53	2
High Resolution PCBs (PISCES Samples[1])									
TOTAL PCBS	NC	NC	ng/L	6	6	199	303	399	NA
Dioxins/Furans									
TOTAL TEQ	0.0000006(S)	NC	ng/L	7	7	0.0002	0.001	0.002	7
Inorganic Compounds									
ALUMINUM	0.1(S)	NC	mg/L	14	7	0.12	0.22	0.34	7
MERCURY	0.0000007(S)	NC	mg/L	7	7	0.0000007	0.000002	0.000005	6
CYANIDE	0.0052(S)	NC	mg/L	7	1	0.01	0.01	0.01	1
IRON	0.3(S)	NC	mg/L	28	1	1.10	1.10	1.10	1
CALCIUM	NC	NC	mg/L	28	28	170	233	380	NA
SODIUM	NC	NC	mg/L	28	19	33.0	98.5	190	NA
BARIUM	NC	NC	mg/L	14	7	0.07	0.08	0.10	NA
MAGNESIUM	NC	NC	mg/L	28	7	30	32.7	37	NA
MANGANESE	NC	NC	mg/L	28	7	0.04	0.07	0.11	NA
Other Parameters									
ALKALINITY, BICARBONATE (AS CACO3)	NC	NC	mg/L	28	28	190	220	250	NA
ALKALINITY, TOTAL	NC	NC	mg/L	28	28	190	221	250	NA
CHLORIDE	NC	NC	mg/L	28	28	56	221	560	NA
HARDNESS (AS CACO3)	NC	NC	mg/L	28	28	540	710	1000	NA
NITROGEN, NITRATE (AS N)	NC	NC	mg/L	28	28	0.38	0.78	2.20	NA
SULFATE	NC	NC	mg/L	28	28	250	334	430	NA
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	NC	mg/L	28	28	680	1021	1800	NA
TOTAL ORGANIC CARBON	NC	NC	mg/L	28	28	1.60	2.06	2.90	NA
CHEMICAL OXYGEN DEMAND	NC	NC	mg/L	28	27	4.70	44.9	260	NA
NITROGEN, AMMONIA (AS N)	NC	NC	mg/L	28	25	0.11	0.31	0.78	NA
TOTAL RECOVERABLE PHENOLICS	NC	NC	mg/L	28	9	0.01	0.10	0.23	NA
ALKALINITY, CARBONATE (AS CACO3)	NC	NC	mg/L	28	3	6.30	7.27	8.50	NA
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	NC	mg/L	28	2	1.50	1.65	1.80	NA
BROMIDE	NC	NC	mg/L	28	1	1.80	1.80	1.80	NA
NITROGEN, NITRITE	NC	NC	mg/L	7	1	0.11	0.11	0.11	NA

NOTES:
NC = no applicable criteria; NA = not available as no applicable criteria.
1 - Pesticides and PCB PISCES samples were not compared to NYS Class C Surface Water Standards since they represent uptake in aquatic organisms and are not water samples.

Table 112
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
1,1,1,2-TETRACHLOROETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
1,1,1-TRICHLOROETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
1,1,2,2-TETRACHLOROETHANE	NC	1.1499	µg/kg	8.4U	6U	6.5U
1,1,2-TRICHLOROETHANE	NC	2.2998	µg/kg	8.4U	6U	6.5U
1,1-DICHLOROETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
1,1-DICHLOROETHENE	NC	0.07666	µg/kg	8.4U	6U	6.5U
1,1-DICHLOROPROPENE	NC	NC	µg/kg	8.4UJ	6UJ	6.5UJ
1,2,3-TRICHLOROPROPANE	NC	NC	µg/kg	8.4U	6U	6.5U
1,2,4-TRICHLOROBENZENE	348.803	NC	µg/kg	8.4U	6U	6.5U
1,2-DIBROMO-3-CHLOROPROPANE	NC	NC	µg/kg	8.4U	6U	6.5U
1,2-DIBROMOETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
1,2-DICHLOROBENZENE	45.996	NC	µg/kg	8.4U	6U	6.5U
1,2-DICHLOROETHANE	NC	2.6831	µg/kg	8.4U	6U	6.5U
1,2-DICHLOROPROPANE	NC	NC	µg/kg	8.4U	6U	6.5U
1,3-DICHLOROBENZENE	45.996	NC	µg/kg	8.4U	6U	6.5U
1,3-DICHLOROPROPANE	NC	NC	µg/kg	8.4U	6U	6.5U
1,4-DICHLOROBENZENE	45.996	NC	µg/kg	8.4U	6U	6.5U
2,2-DICHLOROPROPANE	NC	NC	µg/kg	8.4UJ	6UJ	6.5UJ
2-BUTANONE	NC	NC	µg/kg	8.4UJ	6UJ	6.5UJ
2-HEXANONE	NC	NC	µg/kg	8.4UJ	6UJ	6.5UJ
2-PROPENENITRILE, 2-METHYL-	NC	NC	µg/kg	8.4U	6U	6.5U
4-METHYL-2-PENTANONE	NC	NC	µg/kg	8.4U	6U	6.5U
ACETONE	NC	NC	µg/kg	11J	24U	25U
ACETONITRILE	NC	NC	µg/kg	170R	120R	130R
ACROLEIN	NC	NC	µg/kg	170UJ	120UJ	130UJ
ACRYLONITRILE	NC	NC	µg/kg	170U	120U	130U
ALLYL CHLORIDE	NC	NC	µg/kg	8.4U	6U	6.5U
BENZENE	107.324	2.2998	µg/kg	8.4U	6U	6.5U
BROMOCHLOROMETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
BROMODICHLOROMETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
BROMOFORM	NC	NC	µg/kg	8.4U	6U	6.5U
BROMOMETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
CARBON DISULFIDE	NC	NC	µg/kg	8.4U	6U	6.5U
CARBON TETRACHLORIDE	NC	2.2998	µg/kg	8.4U	6U	6.5U
CHLOROBENZENE	13.4155	NC	µg/kg	8.4U	6U	6.5U
CHLOROETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
CHLOROFORM	NC	NC	µg/kg	8.4U	6U	6.5U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 112
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 8260 Volatile Organic Compound Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
CHLOROMETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
CHLOROPRENE	NC	NC	µg/kg	8.4U	6UJ	6.5UJ
CIS-1,2-DICHLOROETHENE	NC	NC	µg/kg	8.4U	6U	6.5U
CIS-1,3-DICHLOROPROPENE	NC	NC	µg/kg	8.4U	6U	6.5U
Dibromochloromethane	NC	NC	µg/kg	8.4U	6U	6.5U
DIBROMOMETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
DICHLORODIFLUOROMETHANE	NC	NC	µg/kg	8.4UJ	6UJ	6.5UJ
ETHYL CYANIDE	NC	NC	µg/kg	17UJ	12UJ	13UJ
ETHYL METHACRYLATE	NC	NC	µg/kg	8.4UJ	6UJ	6.5UJ
ETHYLBENZENE	91.992	NC	µg/kg	8.4U	6U	6.5U
IODOMETHANE	NC	NC	µg/kg	8.4UJ	6UJ	6.5UJ
ISOBUTANOL	NC	NC	µg/kg	340R	240R	260R
METHYL METHACRYLATE	NC	NC	µg/kg	8.4UJ	6UJ	6.5UJ
METHYLENE CHLORIDE	NC	NC	µg/kg	8.4U	6U	6.5U
STYRENE	NC	NC	µg/kg	8.4U	6U	6.5U
TETRACHLOROETHENE	NC	3.0664	µg/kg	8.4U	6U	6.5U
TOLUENE	187.817	NC	µg/kg	8.4U	6U	6.5U
TRANS-1,2-DICHLOROETHENE	NC	NC	µg/kg	8.4U	6U	6.5U
TRANS-1,3-DICHLOROPROPENE	NC	NC	µg/kg	8.4U	6U	6.5U
TRANS-1,4-DICHLORO-2-BUTENE	NC	NC	µg/kg	8.4UJ	6UJ	6.5UJ
TRICHLOROETHENE	NC	7.666	µg/kg	8.4U	6U	6.5U
TRICHLOROFLUOROMETHANE	NC	NC	µg/kg	8.4U	6U	6.5U
VINYL ACETATE	NC	NC	µg/kg	8.4UJ	6UJ	6.5UJ
VINYL CHLORIDE	NC	0.26831	µg/kg	8.4U	6U	6.5U
XYLENES, TOTAL	352.636	NC	µg/kg	25U	18U	20U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 113
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
[1,1-BIPHENYL]-4,4-DIAMINE, 3,3-DIMETHYL-	NC	NC	µg/kg	1400U	1000U	220U
1,2,4,5-TETRACHLOROBENZENE	NC	NC	µg/kg	270U	200U	43U
1,3,5-TRINITROBENZENE	NC	NC	µg/kg	270U	200U	43U
1,3-DINITROBENZENE	NC	NC	µg/kg	270U	200U	43U
1,4-NAPHTHOQUINONE	NC	NC	µg/kg	270U	200U	43U
1-PHENYL-1-(2,4-DIMETHYLPHENYL) ETHANE	NC	NC	µg/kg	0.00U	0.00U	0.00U
1-PHENYL-1-(4-METHYLPHENYL) ETHANE	NC	NC	µg/kg	0.00U	0.00U	0.00U
2,2'-OXYBIS(1-CHLOROPROPANE)	NC	NC	µg/kg	56U	40U	8.7U
2,3,4,6-TETRACHLOROPHENOL	NC	NC	µg/kg	270U	200U	43U
2,4,5-TRICHLOROPHENOL	NC	NC	µg/kg	270U	200U	43U
2,4,6-TRICHLOROPHENOL	NC	NC	µg/kg	270U	200U	43U
2,4-DICHLOROPHENOL	NC	NC	µg/kg	56U	40U	8.7U
2,4-DIMETHYLPHENOL	NC	NC	µg/kg	270U	200U	43U
2,4-DINITROPHENOL	NC	NC	µg/kg	1400U	1000U	220U
2,4-DINITROTOLUENE	NC	NC	µg/kg	270U	200U	43U
2,6-DICHLOROPHENOL	NC	NC	µg/kg	270U	200U	43U
2,6-DINITROTOLUENE	NC	NC	µg/kg	270U	200U	43U
2-ACETYLAMINOFLUORENE	NC	NC	µg/kg	270U	200U	43U
2-CHLORONAPHTHALENE	NC	NC	µg/kg	56U	40U	8.7U
2-CHLOROPHENOL	NC	NC	µg/kg	270U	200U	43U
2-METHYLNAPHTHALENE	130.322	NC	µg/kg	8.1J	40U	2.1J
2-METHYLPHENOL	NC	NC	µg/kg	270U	200U	43U
2-NAPHTHYLAMINE	NC	NC	µg/kg	270U	200U	43U
2-NITROANILINE	NC	NC	µg/kg	1400U	1000U	220U
2-NITROPHENOL	NC	NC	µg/kg	270U	200U	43U
3&4-METHYLPHENOL	NC	NC	µg/kg	270U	200U	43U
3,3'-DICHLOROBENZIDINE	NC	NC	µg/kg	270U	200U	43U
3-METHYLCHOLANTHRENE	NC	NC	µg/kg	270U	200U	43U
3-NITROANILINE	NC	NC	µg/kg	1400U	1000U	220U
4,6-DINITRO-2-METHYLPHENOL	NC	NC	µg/kg	110U	1000U	220U
4-AMINOBIPHENYL	NC	NC	µg/kg	270U	200U	43U
4-BROMOPHENYL PHENYL ETHER	NC	NC	µg/kg	270U	200U	43U
4-CHLORO-3-METHYLPHENOL	NC	NC	µg/kg	270U	200U	43U
4-CHLOROANILINE	NC	NC	µg/kg	270U	200U	43U
4-CHLOROPHENYL PHENYL ETHER	NC	NC	µg/kg	270U	200U	43U
4-NITROANILINE	NC	NC	µg/kg	1400U	1000U	220U
4-NITROPHENOL	NC	NC	µg/kg	1400U	1000U	220U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 113
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
5-NITRO-O-TOLUIDINE	NC	NC	µg/kg	270U	200U	43U
7,12-DIMETHYLBENZ(A)ANTHRACENE	NC	NC	µg/kg	270U	200U	43U
ACENAPHTHENE	536.62	NC	µg/kg	56U	40U	8.7U
ACENAPHTHYLENE	NC	NC	µg/kg	18J	40U	8.7U
ACETOPHENONE	NC	NC	µg/kg	270U	200U	43U
ALPHA-NAPHTHYLAMINE	NC	NC	µg/kg	270U	200U	43U
ANTHRACENE	410.131	NC	µg/kg	22J	4.0J	8.7U
P-DIMETHYLAMINOAZOBENZENE	NC	NC	µg/kg	270U	200U	43U
CHLOROBENZILATE	NC	NC	µg/kg	270U	200U	43U
BENZO(A)ANTHRACENE	45.996	4.9829	µg/kg	[93]	[23J]	1.7J
BENZO(A)PYRENE	NC	4.9829	µg/kg	[100]	[24J]	1.6J
BENZO(B)FLUORANTHENE	NC	4.9829	µg/kg	[110]	[31J]	1.8J
BENZO(G,H,I)PERYLENE	NC	NC	µg/kg	140	69	8.7U
BENZO(K)FLUORANTHENE	NC	4.9829	µg/kg	[51J]	[10J]	8.7U
BENZYL ALCOHOL	NC	NC	µg/kg	270U	200U	43U
BIS(2-CHLOROETHOXY)METHANE	NC	NC	µg/kg	270U	200U	43U
BIS(2-CHLOROETHYL)ETHER	NC	0.11499	µg/kg	56U	40U	8.7U
BIS(2-ETHYLHEXYL)PHTHALATE	764.6835	NC	µg/kg	110J	52J	26J
BUTYLBENZYL PHTHALATE	NC	NC	µg/kg	100J	74J	24J
DIALLATE	NC	NC	µg/kg	270U	200U	43U
CHRYSENE	NC	4.9829	µg/kg	[100]	[27J]	1.6J
DI-N-BUTYL PHTHALATE	NC	NC	µg/kg	270U	200U	43U
DI-N-OCTYL PHTHALATE	NC	NC	µg/kg	270U	200U	43U
DIBENZO(A,H)ANTHRACENE	NC	NC	µg/kg	84	56	8.7U
DIBENZOFURAN	NC	NC	µg/kg	270U	200U	43U
DIETHYL PHTHALATE	NC	NC	µg/kg	270U	200U	43U
DIMETHYL PHTHALATE	NC	NC	µg/kg	270U	200U	43U
FLUORANTHENE	3909.66	NC	µg/kg	180	40	3.2J
FLUORENE	30.664	NC	µg/kg	56U	40U	8.7U
HEXACHLOROBUTADIENE	21.0815	1.1499	µg/kg	56U	40U	8.7U
HEXACHLOROCYCLOPENTADIENE	16.8652	NC	µg/kg	270U	200U	43U
HEXACHLOROETHANE	NC	NC	µg/kg	270U	200U	43U
HEXACHLOROPROPENE	NC	NC	µg/kg	270U	200U	43U
INDENO(1,2,3-CD)PYRENE	NC	4.9829	µg/kg	[120]	[60]	8.7U
ISODRIN	NC	NC	µg/kg	270U	200U	43U
ISOPHORONE	NC	NC	µg/kg	270U	200U	43U
ISOSAFROLE	NC	NC	µg/kg	270U	200U	43U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 113
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 8270 Semivolatile Organic Compound Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
KEPONE	NC	NC	µg/kg	1100U	780U	170U
METHANESULFONIC ACID, ETHYL ESTER	NC	NC	µg/kg	270U	200U	43U
METHAPYRILENE	NC	NC	µg/kg	270U	200U	43U
METHYL METHANESULFONATE	NC	NC	µg/kg	270U	200U	43U
N-NITROSO-DI-N-PROPYLAMINE	NC	NC	µg/kg	56U	40U	8.7U
N-NITROSODI-N-BUTYLAMINE	NC	NC	µg/kg	270U	200U	43U
N-NITROSODIETHYLAMINE	NC	NC	µg/kg	270U	200U	43U
N-NITROSODIMETHYLAMINE	NC	NC	µg/kg	270U	200U	43U
N-NITROSODIPHENYLAMINE	NC	NC	µg/kg	270U	200U	43U
N-NITROSOMETHYLETHYLAMINE	NC	NC	µg/kg	270U	200U	43U
N-NITROSOPIPERIDINE	NC	NC	µg/kg	270U	200U	43U
N-NITROSOPYRROLIDINE	NC	NC	µg/kg	270U	200U	43U
NAPHTHALENE	114.99	NC	µg/kg	11J	40U	6.6J
NITROBENZENE	NC	NC	µg/kg	550U	400U	87U
O,O,O-TRIETHYL PHOSPHOROTHIOATE	NC	NC	µg/kg	270U	200U	43U
O,O-DIETHYL-O-(2-PYRAZINYL)PHOSPHOROTHIOATE	NC	NC	µg/kg	270U	200U	43U
O-TOLUIDINE	NC	NC	µg/kg	270U	200U	43U
P-PHENYLENEDIAMINE	NC	NC	µg/kg	5600U	4000U	870U
PENTACHLOROBENZENE	NC	NC	µg/kg	270U	200U	43U
PENTACHLORONITROBENZENE	NC	NC	µg/kg	270U	200U	43U
PENTACHLOROPHENOL	153.32	NC	µg/kg	270U	200U	43U
PHENACETIN	NC	NC	µg/kg	270U	200U	43U
PHENANTHRENE	459.96	NC	µg/kg	93	16J	3.4J
PHENOL	1.9165	NC	µg/kg	56U	40U	8.7U
PRONAMIDE	NC	NC	µg/kg	270U	200U	43U
PYRENE	3683.513	NC	µg/kg	200	35J	2.9J
SAFROLE	NC	NC	µg/kg	270U	200U	43U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 114
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 8081 Pesticide Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
4,4'-DDD	NC	0.03833	µg/kg	[2.3]	1U	1.1U
4,4'-DDE	NC	0.03833	µg/kg	[1.7]	1U	1.1U
4,4'-DDT	3.833	0.03833	µg/kg	1.4U	1U	1.1U
ALDRIN	NC	0.3833	µg/kg	1.4U	1U	1.1U
ALPHA-BHC	0.22998	0.22998	µg/kg	1.4U	1U	1.1U
BETA-BHC	0.22998	0.22998	µg/kg	1.4U	[0.33J]	1.1U
CONSTITUENTS OF CHLORDANE (ALPHA, BETA, AND GAMMA)	NC	NC	µg/kg	14U	10U	11U
DELTA-BHC	0.22998	0.22998	µg/kg	[0.59J]	1U	1.1U
DIELDRIN	NC	0.3833	µg/kg	1.4U	1U	1.1U
ENDOSULFAN I	0.11499	NC	µg/kg	1.4U	1U	1.1U
ENDOSULFAN II	0.11499	NC	µg/kg	1.4U	1U	1.1U
ENDOSULFAN SULFATE	NC	NC	µg/kg	0.25J	1U	1.1U
ENDRIN	15.332	3.0664	µg/kg	1.1J	1U	1.1U
ENDRIN ALDEHYDE	NC	NC	µg/kg	1.4U	1U	1.1U
GAMMA-BHC (LINDANE)	0.22998	0.22998	µg/kg	1.4U	1U	1.1U
HEPTACHLOR	0.3833	0.0030664	µg/kg	1.4U	1U	1.1U
HEPTACHLOR EPOXIDE	0.3833	0.0030664	µg/kg	1.4U	1U	1.1U
HEXACHLOROBENZENE	21349.81	0.57495	µg/kg	1.4UJ	1UJ	1.1UJ
METHOXYCHLOR	2.2998	NC	µg/kg	2.8U	2U	2.2U
TOXAPHENE	0.03833	0.07666	µg/kg	55U	40U	43U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 115
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 8151 Herbicide Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
2,4,5-T	NC	NC	µg/kg	33U	24U	26U
2,4,5-TP (SILVEX)	NC	NC	µg/kg	33U	24U	26U
2,4-D	NC	NC	µg/kg	130U	96U	100U
DINOSEB	NC	NC	µg/kg	20U	14U	16U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 116
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
TOTAL PCBs	73.9769	0.00030664	ng/g	[86.0952]	[6.42168]	[1.33467]
10-DiCB	NC	NC	ng/g	0.0084QJ	0.012U	0.00061QJ
109-PeCB	NC	NC	ng/g	1.1C86	0.093QC86	0.016C86
112-PeCB	NC	NC	ng/g	0.017U	0.012U	0.013U
142-HxCB	NC	NC	ng/g	0.017U	0.012U	0.013U
143-HxCB	NC	NC	ng/g	0.16C134	0.0051C134J	0.00037QC134J
160-HxCB	NC	NC	ng/g	2.2BC129	0.12BC129	0.019BC129
161-HxCB	NC	NC	ng/g	0.017U	0.012U	0.013U
162-HxCB	NC	NC	ng/g	0.0063QJ	0.012U	0.013U
164-HxCB	NC	NC	ng/g	0.15	0.0075QJ	0.00089QJ
165-HxCB	NC	NC	ng/g	0.017U	0.012U	0.00029J
2,3',4,4'-TETRACHLOROBIPHENYL	NC	NC	ng/g	0.17	0.065	0.0064J
203-OcCB	NC	NC	ng/g	0.17	0.021Q	0.0012QJ
21-TrCB C33	NC	NC	ng/g	0.43BC	0.027BC	0.022BC
59-TeCB C62/75	NC	NC	ng/g	0.15C	0.0057QCJ	0.0023QCJ
64-TeCB	NC	NC	ng/g	0.61	0.033	0.011J
72-TeCB	NC	NC	ng/g	0.036	0.0017QJ	0.013U
98-PeCB C102	NC	NC	ng/g	0.056C	0.0035QCJ	0.013U
PCB 101	NC	NC	ng/g	1.8C90	0.098C90	0.016QC90
PCB 102 (BZ)	NC	NC	ng/g	0.056C98	0.0035QC98J	0.013U
PCB 115 (BZ)	NC	NC	ng/g	2.2C110	0.17C110	0.024C110
PCB 116 (BZ)	NC	NC	ng/g	0.29C85	0.034C85	0.0042C85J
PCB 117 (BZ)	NC	NC	ng/g	0.29C85	0.034C85	0.0042C85J
PCB 118	NC	NC	ng/g	2.1	0.26	0.02
PCB 125 (BZ)	NC	NC	ng/g	1.1C86	0.093QC86	0.016C86
PCB 13 (BZ)	NC	NC	ng/g	0.033C12	0.0016QC12J	0.0019QC12J
PCB 138	NC	NC	ng/g	2.2BC129	0.12BC129	0.019BC129
PCB 153	NC	NC	ng/g	1.8C	0.083C	0.013C
PCB 163 (BZ)	NC	NC	ng/g	2.2BC129	0.12BC129	0.019BC129
PCB 209	NC	NC	ng/g	0.7	0.022	0.0013QJ
PCB 28	NC	NC	ng/g	1.1BC20	0.089BC20	0.043BC20
PCB 30	NC	NC	ng/g	0.45BC18	0.011BC18J	0.028BC18
PCB 52	NC	NC	ng/g	2	0.058	0.026
PCB 75 (BZ)	NC	NC	ng/g	0.15C59	0.0057QC59J	0.0023QC59J
PCB 91 (BZ)	NC	NC	ng/g	0.25C88	0.0093QC88J	0.0029QC88J
PCB-1	NC	NC	ng/g	0.046	0.012U	0.0012QJ

NOTES:
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C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 116
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
PCB-100	NC	NC	ng/g	0.0041QC93J	0.012U	0.013U
PCB-103	NC	NC	ng/g	0.019	0.012U	0.013U
PCB-104	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-105	NC	NC	ng/g	0.65	0.14Q	0.0091J
PCB-106/118	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-107/109	NC	NC	ng/g	0.16	0.018	0.0013QJ
PCB-108/112	NC	NC	ng/g	0.065QC	0.0062QCJ	0.00080QCJ
PCB-11	NC	NC	ng/g	0.042B	0.0082QBJ	0.0052QBJ
PCB-110	NC	NC	ng/g	2.2C	0.17C	0.024C
PCB-111/115	NC	NC	ng/g	0.0026QJ	0.012U	0.013U
PCB-113	NC	NC	ng/g	1.8C90	0.098C90	0.016QC90
PCB-114	NC	NC	ng/g	0.043	0.0075QJ	0.00063QJ
PCB-119	NC	NC	ng/g	1.1C86	0.093QC86	0.016C86
PCB-12/13	NC	NC	ng/g	0.033C	0.0016QCJ	0.0019QCJ
PCB-120	NC	NC	ng/g	0.0091J	0.012U	0.013U
PCB-121	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-122	NC	NC	ng/g	0.029	0.0054QJ	0.013U
PCB-123	NC	NC	ng/g	0.032	0.0056QJ	0.00063QJ
PCB-124	NC	NC	ng/g	0.065QC108	0.0062QC108J	0.00080QC108J
PCB-126	NC	NC	ng/g	0.0086J	0.0017QJ	0.00033J
PCB-127	NC	NC	ng/g	0.0039QJ	0.012U	0.013U
PCB-128/162	NC	NC	ng/g	0.36C	0.021C	0.0022QCJ
PCB-129	NC	NC	ng/g	2.2BC	0.12BC	0.019BC
PCB-130	NC	NC	ng/g	0.16	0.0082J	0.0012J
PCB-131	NC	NC	ng/g	0.038	0.012U	0.013U
PCB-132/161	NC	NC	ng/g	0.89	0.034	0.0055QJ
PCB-133/142	NC	NC	ng/g	0.034Q	0.012U	0.00043J
PCB-134/143	NC	NC	ng/g	0.16C	0.0051CJ	0.00037QCJ
PCB-135	NC	NC	ng/g	0.53C	0.021C	0.0050QCJ
PCB-136	NC	NC	ng/g	0.24	0.0057J	0.0017QJ
PCB-137	NC	NC	ng/g	0.1	0.0075J	0.00054QJ
PCB-139/149	NC	NC	ng/g	0.039QC	0.012U	0.013U
PCB-14	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-140	NC	NC	ng/g	0.039QC139	0.012U	0.013U
PCB-141	NC	NC	ng/g	0.37	0.018	0.0026QJ
PCB-144	NC	NC	ng/g	0.069	0.012U	0.00056QJ

NOTES:
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C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 116
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
PCB-145	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-146/165	NC	NC	ng/g	0.32	0.015Q	0.0026J
PCB-147	NC	NC	ng/g	2.0BC	0.053BC	0.013BC
PCB-148	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-149	NC	NC	ng/g	2.0BC147	0.053BC147	0.013BC147
PCB-15	NC	NC	ng/g	0.23B	0.019QB	0.013QBJ
PCB-150	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-151	NC	NC	ng/g	0.53C135	0.021C135	0.0050QC135J
PCB-152	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-153	NC	NC	ng/g	1.0C83	0.085C83	0.011C83J
PCB-154	NC	NC	ng/g	0.019	0.012U	0.013U
PCB-155	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-156	NC	NC	ng/g	0.21C	0.020C	0.0021CJ
PCB-157	NC	NC	ng/g	0.21C156	0.020C156	0.0021C156J
PCB-158/160	NC	NC	ng/g	0.2	0.013Q	0.0014QJ
PCB-159	NC	NC	ng/g	0.013QJ	0.012U	0.013U
PCB-16/32	NC	NC	ng/g	0.17	0.0028QJ	0.014
PCB-166	NC	NC	ng/g	0.36C128	0.021C128	0.0022QC128J
PCB-167	NC	NC	ng/g	0.061Q	0.0055QJ	0.00085J
PCB-168	NC	NC	ng/g	1.8C153	0.083C153	0.013C153
PCB-169	NC	NC	ng/g	0.0079QJ	0.012U	0.00037QJ
PCB-17	NC	NC	ng/g	0.2	0.0050J	0.014
PCB-170	NC	NC	ng/g	0.36	0.029Q	0.0033QJ
PCB-171	NC	NC	ng/g	0.12C	0.0082CJ	0.0013QCJ
PCB-172	NC	NC	ng/g	0.064Q	0.0054QJ	0.00061QJ
PCB-173	NC	NC	ng/g	0.12C171	0.0082C171J	0.0013QC171J
PCB-174	NC	NC	ng/g	0.4	0.022Q	0.0043J
PCB-175	NC	NC	ng/g	0.018	0.012U	0.013U
PCB-176	NC	NC	ng/g	0.055	0.012U	0.00054QJ
PCB-177	NC	NC	ng/g	0.2	0.016	0.0019QJ
PCB-178	NC	NC	ng/g	0.086	0.0048QJ	0.00091J
PCB-179	NC	NC	ng/g	0.18	0.0066QJ	0.0015QJ
PCB-18	NC	NC	ng/g	0.45BC	0.011BCJ	0.028BC
PCB-180	NC	NC	ng/g	0.79C	0.075C	0.0098CJ
PCB-181	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-182/187	NC	NC	ng/g	0.0056J	0.012U	0.013U

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C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 116
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
PCB-183	NC	NC	ng/g	0.53	0.045	0.0054QJ
PCB-184	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-185	NC	NC	ng/g	0.28C183	0.017C183	0.0030C183J
PCB-186	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-188	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-189	NC	NC	ng/g	0.011J	0.0014QJ	0.013U
PCB-19	NC	NC	ng/g	0.044Q	0.012U	0.0025QJ
PCB-190	NC	NC	ng/g	0.055	0.0048QJ	0.013U
PCB-191	NC	NC	ng/g	0.012QJ	0.012U	0.013U
PCB-192	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-193	NC	NC	ng/g	0.79C180	0.075C180	0.0098C180J
PCB-194	NC	NC	ng/g	0.22	0.028	0.0022J
PCB-195	NC	NC	ng/g	0.071	0.0066QJ	0.013U
PCB-196/203	NC	NC	ng/g	0.11	0.010J	0.0014J
PCB-197	NC	NC	ng/g	0.0092QJ	0.012U	0.013U
PCB-198	NC	NC	ng/g	0.31C	0.037C	0.0039CJ
PCB-199	NC	NC	ng/g	0.31C198	0.037C198	0.0039C198J
PCB-2	NC	NC	ng/g	0.015J	0.00091QJ	0.00078QJ
PCB-20/21/33	NC	NC	ng/g	1.1BC	0.089BC	0.043BC
PCB-200	NC	NC	ng/g	0.028Q	0.0042QJ	0.013U
PCB-201	NC	NC	ng/g	0.03	0.0029J	0.00024QJ
PCB-202	NC	NC	ng/g	0.081	0.0074QJ	0.00075QJ
PCB-204	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-205	NC	NC	ng/g	0.0086QJ	0.0014QJ	0.00013QJ
PCB-206	NC	NC	ng/g	0.46	0.031	0.0016J
PCB-207	NC	NC	ng/g	0.036	0.0027QJ	0.013U
PCB-208	NC	NC	ng/g	0.19	0.0085J	0.013U
PCB-22	NC	NC	ng/g	0.22	0.02	0.016
PCB-23	NC	NC	ng/g	0.0011J	0.012U	0.013U
PCB-24/27	NC	NC	ng/g	0.0058QJ	0.012U	0.00054QJ
PCB-25	NC	NC	ng/g	0.067	0.0039J	0.0029QJ
PCB-26	NC	NC	ng/g	0.12C	0.0093CJ	0.0078CJ
PCB-27	NC	NC	ng/g	0.041	0.012U	0.0016QJ
PCB-29	NC	NC	ng/g	0.12C26	0.0093C26J	0.0078C26J
PCB-3	NC	NC	ng/g	0.051	0.0018J	0.0011QJ
PCB-31	NC	NC	ng/g	0.67B	0.056B	0.037B

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Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
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Table 116
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
PCB-32	NC	NC	ng/g	0.16B	0.0038QBJ	0.0081QBJ
PCB-33	NC	NC	ng/g	0.43BC21	0.027BC21	0.022BC21
PCB-34	NC	NC	ng/g	0.012J	0.012U	0.013U
PCB-35	NC	NC	ng/g	0.010J	0.0017QJ	0.0013QJ
PCB-36	NC	NC	ng/g	0.0017J	0.012U	0.013U
PCB-37	NC	NC	ng/g	0.31	0.052	0.013J
PCB-38	NC	NC	ng/g	0.0022J	0.012U	0.013U
PCB-39	NC	NC	ng/g	0.0077QJ	0.012U	0.013U
PCB-4/10	NC	NC	ng/g	0.074B	0.0031QBJ	0.0071QBJ
PCB-40	NC	NC	ng/g	0.74C	0.034C	0.015C
PCB-41/64/71/72	NC	NC	ng/g	0.74C40	0.034C40	0.015C40
PCB-42/59	NC	NC	ng/g	0.37	0.021	0.0067J
PCB-43/49	NC	NC	ng/g	0.050C	0.0019QCJ	0.00085QCJ
PCB-44	NC	NC	ng/g	1.4BC	0.063BC	0.026BC
PCB-45	NC	NC	ng/g	0.25C	0.0053CJ	0.0060CJ
PCB-46	NC	NC	ng/g	0.096	0.0019J	0.0017J
PCB-47	NC	NC	ng/g	1.4BC44	0.063BC44	0.026BC44
PCB-48/75	NC	NC	ng/g	0.26	0.012J	0.0060J
PCB-49	NC	NC	ng/g	1.0C	0.040C	0.015C
PCB-5	NC	NC	ng/g	0.0054QJ	0.00050QJ	0.00040QJ
PCB-50	NC	NC	ng/g	0.20C	0.0019QCJ	0.0040CJ
PCB-51	NC	NC	ng/g	0.25C45	0.0053C45J	0.0060C45J
PCB-53	NC	NC	ng/g	0.20C50	0.0019QC50J	0.0040C50J
PCB-54	NC	NC	ng/g	0.017U	0.012U	0.013U
PCB-55	NC	NC	ng/g	0.020Q	0.0084QJ	0.0022QJ
PCB-56/60	NC	NC	ng/g	0.54	0.11	0.011J
PCB-57	NC	NC	ng/g	0.0069QJ	0.012U	0.013U
PCB-58	NC	NC	ng/g	0.010J	0.012U	0.013U
PCB-6	NC	NC	ng/g	0.043QB	0.012U	0.0049QBJ
PCB-61/70	NC	NC	ng/g	2.3BC	0.34BC	0.040BC
PCB-62	NC	NC	ng/g	0.15C59	0.0057QC59J	0.0023QC59J
PCB-63	NC	NC	ng/g	0.056	0.0059QJ	0.0013J
PCB-65	NC	NC	ng/g	1.4BC44	0.063BC44	0.026BC44
PCB-66	NC	NC	ng/g	1.5	0.24	0.025
PCB-67	NC	NC	ng/g	0.045	0.0053J	0.013U
PCB-68	NC	NC	ng/g	0.018	0.00077QJ	0.013U

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Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 116
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample ng/g	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
PCB-69	NC	NC		1.0C49	0.040C49	0.015C49
PCB-7/9	NC	NC		0.016QJ	0.012U	0.0012QJ
PCB-70	NC	NC		2.3BC61	0.34BC61	0.040BC61
PCB-71	NC	NC		0.74C40	0.034C40	0.015C40
PCB-73	NC	NC		0.050C43	0.0019QC43J	0.00085QC43J
PCB-74	NC	NC		2.3BC61	0.34BC61	0.040BC61
PCB-76/66	NC	NC		2.3BC61	0.34BC61	0.040BC61
PCB-77	NC	NC		0.099	0.047	0.0021QJ
PCB-78	NC	NC		0.017U	0.012U	0.013U
PCB-79	NC	NC		0.017Q	0.0016QJ	0.013U
PCB-8	NC	NC		0.18B	0.0071QBJ	0.023BJ
PCB-80	NC	NC		0.017U	0.012U	0.013U
PCB-81	NC	NC		0.0040J	0.0022QJ	0.013U
PCB-82	NC	NC		0.22	0.026	0.0035J
PCB-83	NC	NC		1.0C	0.085C	0.011CJ
PCB-84/92	NC	NC		0.5	0.015Q	0.0042QJ
PCB-85/116	NC	NC		0.29C	0.034C	0.0042CJ
PCB-86	NC	NC		1.1C	0.093QC	0.016C
PCB-87	NC	NC		1.1C86	0.093QC86	0.016C86
PCB-88/91	NC	NC		0.25C	0.0093QCJ	0.0029QCJ
PCB-89	NC	NC		0.019Q	0.012U	0.013U
PCB-9	NC	NC		0.013QJ	0.0011QJ	0.0021QJ
PCB-90/101	NC	NC		1.8C	0.098C	0.016QC
PCB-92	NC	NC		0.34	0.016	0.0025QJ
PCB-93	NC	NC		0.0041QCJ	0.012U	0.013U
PCB-94	NC	NC		0.017U	0.012U	0.013U
PCB-95/98/102	NC	NC		1.6	0.043	0.014
PCB-96	NC	NC		0.012J	0.012U	0.013U
PCB-97	NC	NC		1.1C86	0.093QC86	0.016C86
Total Di-CB	NC	NC		0.64EMPC	0.041EMPCU	0.059EMPC
Total Hepta-CB	NC	NC		3.2EMPC	0.23EMPC	0.033EMPCJ
Total Hexa-CB	NC	NC		10EMPC	0.44EMPC	0.074EMPC
Total Mono-CB	NC	NC		0.11	0.0027EMPCJ	0.0031EMPCJ
Total Nona-CB	NC	NC		0.68	0.042EMPC	0.0016J
Total Octa-CB	NC	NC		1.0EMPC	0.12EMPC	0.0097EMPCJ
Total Penta-CB	NC	NC		13EMPC	1.0EMPC	0.13EMPC

NOTES:
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C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 116
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
Total Tetra-CB	NC	NC	ng/g	12EMPC	1.1EMPC	0.21EMPC
Total Tri-CB	NC	NC	ng/g	4.0EMPC	0.28EMPC	0.21EMPC

NOTES:
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C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 117
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Inorganic Compound Data

Parameter Name	NYS Sediment Lowest Effect Level	NYS Sediment Severe Effect Level	Field Sample ID / Location / Sample Date / Sample Depth / Sample Purpose / Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
ALUMINUM	NC	NC	mg/kg	2900B	5300B	11000B
ANTIMONY	2(L)	25(L)	mg/kg	1.6U	1.2U	1.3U
ARSENIC	6(P)	33(P)	mg/kg	3	[15]	4.6
BARIUM	NC	NC	mg/kg	110B	24U	56B
BERYLLIUM	NC	NC	mg/kg	0.65U	0.48U	0.66
BORON	NC	NC	mg/kg	8.4J	8.2J	9.1J
CADMIUM	0.6(P)	9(L)	mg/kg	0.20J	0.33J	0.44J
CALCIUM	NC	NC	mg/kg	310000B	110000B	53000B
CHROMIUM	26(P)	110(P)	mg/kg	14	14	18
COBALT	NC	NC	mg/kg	1.6J	5.2J	8.3
COPPER	16(P)	110(P)	mg/kg	[19]	16	[22]
CYANIDE	NC	NC	mg/kg	0.35J	0.6U	0.82
HEXAVALENT CHROMIUM	NC	NC	mg/kg	3.4U	2.4U	2.7U
IRON	NC	NC	mg/kg	4900	15000	21000
LEAD	31(P)	110(L)	mg/kg	26	11	7.1
MAGNESIUM	NC	NC	mg/kg	4200B	50000B	20000B
MANGANESE	460(P)	1100(P)	mg/kg	160	190	400
MERCURY	0.15(L)	1.3(L)	mg/kg	0.12B	0.042B	0.022B
NICKEL	16(P)	50(L)	mg/kg	5.2J	16	[22]
POTASSIUM	NC	NC	mg/kg	480J	950	2300
SELENIUM	NC	NC	mg/kg	0.82J	0.62J	0.54J
SILVER	1(L)	2.2(L)	mg/kg	0.82U	0.6U	0.64U
SODIUM	NC	NC	mg/kg	1200	570J	280J
THALLIUM	NC	NC	mg/kg	1.6U	1.2U	1.3U
TIN	NC	NC	mg/kg	1.3J	1.2U	0.70J
VANADIUM	NC	NC	mg/kg	5.4J	9.7	22
ZINC	120(P/L)	270(P/L)	mg/kg	32B	24B	45B

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 118
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 8290 Dioxins/Furans Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
1,2,3,4,6,7,8-HPCDD	NC	NC	pg/g	3.4J	1.5J	0.55EMPCJ
1,2,3,4,6,7,8-HPCDF	NC	NC	pg/g	1.4J	0.73EMPCJ	0.16EMPCJ
1,2,3,4,7,8,9-HPCDF	NC	NC	pg/g	0.12EMPCJ	6.0U	6.8U
1,2,3,4,7,8-HXCDD	NC	NC	pg/g	0.11EMPCJ	6.0U	6.8U
1,2,3,4,7,8-HXCDF	NC	NC	pg/g	0.14EMPCJ	0.11EMPCJ	0.062EMPCJ
1,2,3,6,7,8-HXCDD	NC	NC	pg/g	0.27EMPCJ	6.0U	6.8U
1,2,3,6,7,8-HXCDF	NC	NC	pg/g	0.24EMPCJ	0.11EMPCJ	0.063EMPCJ
1,2,3,7,8,9-HXCDD	NC	NC	pg/g	0.28EMPCJ	0.095EMPCJ	6.8U
1,2,3,7,8,9-HXCDF	NC	NC	pg/g	8.1U	6.0U	6.8U
1,2,3,7,8-PECDD	NC	NC	pg/g	8.1U	6.0U	6.8U
1,2,3,7,8-PECDF	NC	NC	pg/g	0.11EMPCJ	6.0U	0.089EMPCJ
2,3,4,6,7,8-HXCDF	NC	NC	pg/g	8.1U	0.058EMPCJ	0.045EMPCJ
2,3,4,7,8-PECDF	NC	NC	pg/g	0.11EMPCJ	0.099EMPCJ	0.058EMPCJ
2,3,7,8-TCDD	NC	38.33	pg/g	1.6U	1.2U	1.4U
2,3,7,8-TCDF	NC	NC	pg/g	0.11EMPCJ	0.067EMPCJ	1.4U
OCDD	NC	NC	pg/g	37	12J	6.5J
OCDF	NC	NC	pg/g	2.0J	1.7J	0.22EMPCJ
TOTAL HPCDD	NC	NC	pg/g	8.2BJ	3.1BJ	1.4BJ
TOTAL HPCDF	NC	NC	pg/g	3.5JBQ	1.7JQB	0.30JB
TOTAL HXCDD	NC	NC	pg/g	2.0BJQ	0.76BJQ	0.79BJQ
TOTAL HXCDF	NC	NC	pg/g	2.7QBJ	1.3QJB	0.35QJB
TOTAL PECDD	NC	NC	pg/g	8.1U	6.0U	1.8QJB
TOTAL PECDF	NC	NC	pg/g	3.0JQB	1.2QJB	0.22QJB
TOTAL TCDD	NC	NC	pg/g	0.49BJ	0.18QBJ	2.2QBJ
Total TCDF	NC	NC	pg/g	6.3QB	1.8JBQ	0.93QJB

NOTES:
J = Estimated result as value is below the Minimum Level; U = Analyte not detected; B = Analyte detected in the method blank; Q = Estimate maximum possible concentration.
NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 119
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Other Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3089-02 WB915-REACH C 07/20/2012 0-1 FT Regular sample	SB915-3089-03 WB915-REACH D 07/20/2012 0-1 FT Regular sample	SB915-3089-04 WB915-REACH F 07/20/2012 0-1 FT Regular sample
ALKALINITY, BICARBONATE (AS CACO3)	NC	NC	mg/L	50B	29B	24B
ALKALINITY, CARBONATE (AS CACO3)	NC	NC	mg/L	5U	5U	5U
ALKALINITY, TOTAL	NC	NC	mg/L	50B	29B	24B
BIOCHEMICAL OXYGEN DEMAND, FIVE DAY	NC	NC	mg/kg	1200	550	98U
BROMIDE	NC	NC	mg/L	0.2U	0.31	0.2U
CHEMICAL OXYGEN DEMAND	NC	NC	mg/L	22B	15B	14B
CHLORIDE	NC	NC	mg/L	2.4	57	12
NITROGEN, NITRATE (AS N)	NC	NC	mg/L	0.06	0.13	0.078
NITROGEN, NITRITE	NC	NC	mg/L	0.05U	0.088	0.046J
PERCENT MOISTURE	NC	NC	%	39.6	19.5	27.4
SULFATE	NC	NC	mg/L	46	11	21
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	NC	NC	mg/L	120	220	100
TOTAL ORGANIC CARBON	NC	NC	mg/kg	7500	2300	1700
TOTAL RECOVERABLE PHENOLICS	NC	NC	mg/kg	0.34UJ	0.24UJ	0.26UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 120
Honeywell
Wastebeds 9-15 Closure Investigation
Round 1 Ninemile Creek Sediment
Method 8290 Dioxins/Furans Data

		Field Sample ID	SB915-3089-02	SB915-3089-03	SB915-3089-04
		Location	WB915-REACH C	WB915-REACH D	WB915-REACH F
		Sample Date	07/20/2012	07/20/2012	07/20/2012
		Sample Depth	0-1 FT	0-1 FT	0-1 FT
		Sample Purpose	Regular sample	Regular sample	Regular sample
Parameter Name	TEF	Units			
1,2,3,4,6,7,8-HPCDD	0.01	pg/g	0.034	0.015	0.0055
1,2,3,4,6,7,8-HPCDF	0.01	pg/g	0.014	0.0073	0.0016
1,2,3,4,7,8,9-HPCDF	0.01	pg/g	0.0012	---	---
1,2,3,4,7,8-HXCDD	0.1	pg/g	0.011	---	---
1,2,3,4,7,8-HXCDF	0.1	pg/g	0.014	0.011	0.0062
1,2,3,6,7,8-HXCDD	0.1	pg/g	0.027	---	---
1,2,3,6,7,8-HXCDF	0.1	pg/g	0.024	0.011	0.0063
1,2,3,7,8,9-HXCDD	0.1	pg/g	0.028	0.0095	---
1,2,3,7,8,9-HXCDF	0.1	pg/g	---	---	---
1,2,3,7,8-PECDD	1	pg/g	---	---	---
1,2,3,7,8-PECDF	0.03	pg/g	0.0033	---	0.00267
2,3,4,6,7,8-HXCDF	0.1	pg/g	---	0.0058	0.0045
2,3,4,7,8-PECDF	0.3	pg/g	0.033	0.0297	0.0174
2,3,7,8-TCDD	1	pg/g	---	---	---
2,3,7,8-TCDF	0.1	pg/g	0.011	0.0067	---
OCDD	0.0003	pg/g	0.0111	0.0036	0.00195
OCDF	0.0003	pg/g	0.0006	0.00051	0.000066
TOTAL TEQ		pg/g	0.2122	0.10011	0.046186

NOTES:
TEF from Van den Berg, et al. (2006) for Humans/Mammals; TEQ - Toxic Equivalence Concentration.
--- - Not calculated. Non-detects are not included in the PCDD/Fs Equivalence Summary

Table 121
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Ninemile Creek Sediment
Method 8141 Pesticide Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3108-03 WB915-REACH C 02/06/2013 0-1 FT Regular sample	SB915-3108-02 WB915-REACH D 02/06/2013 0-1 FT Regular sample	SB915-3108-01 WB915-REACH F 02/06/2013 0-1 FT Regular sample
DISULFOTON	NC	NC	µg/kg	64U	36U	46U
ETHYL PARATHION	NC	NC	µg/kg	64U	36U	46U
FAMPHUR	NC	NC	µg/kg	64UJ	36UJ	46UJ
Methyl parathion	NC	NC	µg/kg	64U	36U	46U
PHORATE	NC	NC	µg/kg	64U	36U	46U
THIONAZIN	NC	NC	µg/kg	64UJ	36UJ	46UJ

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 122
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3108-03 WB915-REACH C 02/06/2013 0-1 FT Regular sample	SB915-3108-02 WB915-REACH D 02/06/2013 0-1 FT Regular sample	SB915-3108-01 WB915-REACH F 02/06/2013 0-1 FT Regular sample
TOTAL PCBs	73.9769	0.00030664	ng/g	[291.0016]	[8.0172]	[4.3267]
10-DiCB	NC	NC	ng/g	0.012Q,J	0.012U	0.014U
109-PeCB	NC	NC	ng/g	3.7C86	0.13C86	0.018C86
112-PeCB	NC	NC	ng/g	0.019U	0.012U	0.014U
142-HxCB	NC	NC	ng/g	0.019U	0.012U	0.014U
143-HxCB	NC	NC	ng/g	0.32C134	0.0073C134,J	0.014U
160-HxCB	NC	NC	ng/g	5.4B,C129	0.18B,C129	0.010Q,B,C129,J
161-HxCB	NC	NC	ng/g	0.019U	0.012U	0.014U
162-HxCB	NC	NC	ng/g	0.013Q,J	0.012U	0.014U
164-HxCB	NC	NC	ng/g	0.35	0.0096J	0.014U
165-HxCB	NC	NC	ng/g	0.019U	0.012U	0.014U
2,3',4,4'-TETRACHLOROBIPHENYL	NC	NC	ng/g	0.69	0.08	0.035
203-OcCB	NC	NC	ng/g	2.5	0.02	0.014U
21-TrCB C33	NC	NC	ng/g	1.0B,C	0.024B,C	0.15B,C
59-TeCB C62/75	NC	NC	ng/g	0.41C	0.0052Q,C,J	0.013C,J
64-TeCB	NC	NC	ng/g	2.1B	0.038B	0.049B
72-TeCB	NC	NC	ng/g	0.060Q	0.012U	0.014U
98-PeCB C102	NC	NC	ng/g	0.21C	0.0023C,J	0.014U
PCB 101	NC	NC	ng/g	5.7B,C90	0.14B,C90	0.018Q,B,C90
PCB 102 (BZ)	NC	NC	ng/g	0.21C98	0.0023C98,J	0.014U
PCB 115 (BZ)	NC	NC	ng/g	6.9B,C110	0.24B,C110	0.026B,C110
PCB 116 (BZ)	NC	NC	ng/g	1.1C85	0.049C85	0.0049C85,J
PCB 117 (BZ)	NC	NC	ng/g	1.1C85	0.049C85	0.0049C85,J
PCB 118	NC	NC	ng/g	5.0B	0.36B	0.027B
PCB 125 (BZ)	NC	NC	ng/g	3.7C86	0.13C86	0.018C86
PCB 13 (BZ)	NC	NC	ng/g	0.072Q,C12	0.0025Q,C12,J	0.0054Q,C12,J
PCB 138	NC	NC	ng/g	5.4B,C129	0.18B,C129	0.010Q,B,C129,J
PCB 153	NC	NC	ng/g	4.6C	0.11C	0.011C,J
PCB 163 (BZ)	NC	NC	ng/g	5.4B,C129	0.18B,C129	0.010Q,B,C129,J
PCB 209	NC	NC	ng/g	1	0.025	0.014U
PCB 28	NC	NC	ng/g	3.2B,C20	0.074B,C20	0.25B,C20
PCB 30	NC	NC	ng/g	1.5C18	0.015C18,J	0.14C18
PCB 52	NC	NC	ng/g	5.9B	0.075B	0.094B
PCB 75 (BZ)	NC	NC	ng/g	0.41C59	0.0052Q,C59,J	0.013C59,J
PCB 91 (BZ)	NC	NC	ng/g	0.83C88	0.013C88	0.0045C88,J
PCB-1	NC	NC	ng/g	0.073	0.012U	0.014U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 122
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3108-03 WB915-REACH C 02/06/2013 0-1 FT Regular sample	SB915-3108-02 WB915-REACH D 02/06/2013 0-1 FT Regular sample	SB915-3108-01 WB915-REACH F 02/06/2013 0-1 FT Regular sample
PCB-100	NC	NC	ng/g	0.029Q,C93	0.012U	0.014U
PCB-103	NC	NC	ng/g	0.048	0.012U	0.014U
PCB-104	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-105	NC	NC	ng/g	1.9	0.26	0.015
PCB-106/118	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-107/109	NC	NC	ng/g	0.4	0.022	0.014U
PCB-108/107	NC	NC	ng/g	0.17C	0.0090Q,C,J	0.014U
PCB-11	NC	NC	ng/g	0.12B	0.013Q,B,J	0.0065Q,B,J
PCB-110	NC	NC	ng/g	6.9B,C	0.24B,C	0.026B,C
PCB-111	NC	NC	ng/g	0.0074J	0.012U	0.014U
PCB-113	NC	NC	ng/g	5.7B,C90	0.14B,C90	0.018Q,B,C90
PCB-114	NC	NC	ng/g	0.11	0.013	0.014U
PCB-119	NC	NC	ng/g	3.7C86	0.13C86	0.018C86
PCB-12	NC	NC	ng/g	0.072Q,C	0.0025Q,C,J	0.0054Q,C,J
PCB-120	NC	NC	ng/g	0.027	0.012U	0.014U
PCB-121	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-122	NC	NC	ng/g	0.063Q	0.0072J	0.014U
PCB-123	NC	NC	ng/g	0.091Q	0.0081J	0.014U
PCB-124	NC	NC	ng/g	0.17C108	0.0090Q,C108,J	0.014U
PCB-126	NC	NC	ng/g	0.012Q,J	0.0027J	0.014U
PCB-127	NC	NC	ng/g	0.0085J	0.012U	0.014U
PCB-128	NC	NC	ng/g	0.88C	0.028Q,C	0.014U
PCB-129	NC	NC	ng/g	5.4B,C	0.18B,C	0.010Q,B,C,J
PCB-130	NC	NC	ng/g	0.43	0.0099J	0.014U
PCB-131	NC	NC	ng/g	0.069	0.012U	0.014U
PCB-132	NC	NC	ng/g	1.8	0.047	0.0031Q,J
PCB-133	NC	NC	ng/g	0.16	0.012U	0.014U
PCB-134	NC	NC	ng/g	0.32C	0.0073C,J	0.014U
PCB-135	NC	NC	ng/g	1.5C	0.031Q,C	0.014U
PCB-136	NC	NC	ng/g	0.52	0.0093Q,J	0.014U
PCB-137	NC	NC	ng/g	0.25	0.0073Q,J	0.014U
PCB-139	NC	NC	ng/g	0.11C	0.012U	0.014U
PCB-14	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-140	NC	NC	ng/g	0.11C139	0.012U	0.014U
PCB-141	NC	NC	ng/g	0.83	0.028	0.014U
PCB-144	NC	NC	ng/g	0.18	0.0037Q,J	0.014U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 122
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3108-03 WB915-REACH C 02/06/2013 0-1 FT Regular sample	SB915-3108-02 WB915-REACH D 02/06/2013 0-1 FT Regular sample	SB915-3108-01 WB915-REACH F 02/06/2013 0-1 FT Regular sample
PCB-145	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-146	NC	NC	ng/g	1.4	0.019	0.014U
PCB-147	NC	NC	ng/g	4.0B,C	0.090B,C	0.0068Q,B,C,J
PCB-148	NC	NC	ng/g	0.017J	0.012U	0.014U
PCB-149	NC	NC	ng/g	4.0B,C147	0.090B,C147	0.0068Q,B,C147,J
PCB-15	NC	NC	ng/g	0.50B	0.018Q,B	0.050Q,B
PCB-150	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-151	NC	NC	ng/g	1.5C135	0.031Q,C135	0.014U
PCB-152	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-153	NC	NC	ng/g	3.5C83	0.10C83	0.014C83
PCB-154	NC	NC	ng/g	0.11	0.012U	0.014U
PCB-155	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-156	NC	NC	ng/g	0.54C	0.028C	0.014U
PCB-157	NC	NC	ng/g	0.54C156	0.028C156	0.014U
PCB-158	NC	NC	ng/g	0.48	0.016	0.014U
PCB-159	NC	NC	ng/g	0.059	0.012U	0.014U
PCB-16	NC	NC	ng/g	0.51	0.0045Q,J	0.068
PCB-166	NC	NC	ng/g	0.88C128	0.028Q,C128	0.014U
PCB-167	NC	NC	ng/g	0.17	0.0064Q,J	0.014U
PCB-168	NC	NC	ng/g	4.6C153	0.11C153	0.011C153,J
PCB-169	NC	NC	ng/g	0.050Q	0.012U	0.014U
PCB-17	NC	NC	ng/g	0.64	0.0069Q,J	0.069
PCB-170	NC	NC	ng/g	2.7	0.036Q	0.014U
PCB-171	NC	NC	ng/g	0.49C	0.0093C,J	0.014U
PCB-172	NC	NC	ng/g	0.55	0.0053J	0.014U
PCB-173	NC	NC	ng/g	0.49C171	0.0093C171,J	0.014U
PCB-174	NC	NC	ng/g	2.2	0.030Q	0.014U
PCB-175	NC	NC	ng/g	0.07	0.012U	0.014U
PCB-176	NC	NC	ng/g	0.21	0.0022J	0.014U
PCB-177	NC	NC	ng/g	1.3	0.016	0.014U
PCB-178	NC	NC	ng/g	0.62	0.0045Q,J	0.014U
PCB-179	NC	NC	ng/g	0.77	0.010J	0.014U
PCB-18	NC	NC	ng/g	1.5C	0.015C,J	0.14C
PCB-180	NC	NC	ng/g	8.6C	0.081C	0.0055Q,C,J
PCB-181	NC	NC	ng/g	0.0072Q,J	0.012U	0.014U
PCB-182	NC	NC	ng/g	0.023Q	0.012U	0.014U

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 122
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3108-03 WB915-REACH C 02/06/2013 0-1 FT Regular sample	SB915-3108-02 WB915-REACH D 02/06/2013 0-1 FT Regular sample	SB915-3108-01 WB915-REACH F 02/06/2013 0-1 FT Regular sample
PCB-183	NC	NC	ng/g	4	0.04	0.014U
PCB-184	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-185	NC	NC	ng/g	1.6C183	0.021C183	0.014U
PCB-186	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-188	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-189	NC	NC	ng/g	0.12	0.0016Q,J	0.014U
PCB-19	NC	NC	ng/g	0.12	0.012U	0.010J
PCB-190	NC	NC	ng/g	0.49	0.0066J	0.014U
PCB-191	NC	NC	ng/g	0.1	0.012U	0.014U
PCB-192	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-193	NC	NC	ng/g	8.6C180	0.081C180	0.0055Q,C180,J
PCB-194	NC	NC	ng/g	4.3	0.029	0.014U
PCB-195	NC	NC	ng/g	1.1	0.0085J	0.014U
PCB-196/203	NC	NC	ng/g	1.4	0.013	0.014U
PCB-197	NC	NC	ng/g	0.088	0.012U	0.014U
PCB-198	NC	NC	ng/g	4.1C	0.032C	0.014U
PCB-199	NC	NC	ng/g	4.1C198	0.032C198	0.014U
PCB-2	NC	NC	ng/g	0.024	0.0010Q,J	0.014U
PCB-20	NC	NC	ng/g	3.2B,C	0.074B,C	0.25B,C
PCB-200	NC	NC	ng/g	0.31	0.0023Q,J	0.014U
PCB-201	NC	NC	ng/g	0.34	0.0026J	0.014U
PCB-202	NC	NC	ng/g	0.58	0.0067Q,J	0.014U
PCB-204	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-205	NC	NC	ng/g	0.18	0.012U	0.014U
PCB-206	NC	NC	ng/g	1.5	0.03	0.014U
PCB-207	NC	NC	ng/g	0.17	0.0021Q,J	0.014U
PCB-208	NC	NC	ng/g	0.4	0.0085Q,J	0.014U
PCB-22	NC	NC	ng/g	0.64	0.018Q	0.09
PCB-23	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-24	NC	NC	ng/g	0.016J	0.012U	0.014U
PCB-25	NC	NC	ng/g	0.3	0.0036J	0.018
PCB-26	NC	NC	ng/g	0.41C	0.0070C,J	0.043C
PCB-27	NC	NC	ng/g	0.11	0.012U	0.010Q,J
PCB-29	NC	NC	ng/g	0.41C26	0.0070C26,J	0.043C26
PCB-3	NC	NC	ng/g	0.097	0.0025J	0.014U
PCB-31	NC	NC	ng/g	2.3B	0.050Q,B	0.22B

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 122
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3108-03 WB915-REACH C 02/06/2013 0-1 FT Regular sample	SB915-3108-02 WB915-REACH D 02/06/2013 0-1 FT Regular sample	SB915-3108-01 WB915-REACH F 02/06/2013 0-1 FT Regular sample
PCB-32	NC	NC	ng/g	0.56	0.0054Q,J	0.041
PCB-33	NC	NC	ng/g	1.0B,C21	0.024B,C21	0.15B,C21
PCB-34	NC	NC	ng/g	0.037	0.012U	0.014U
PCB-35	NC	NC	ng/g	0.032	0.0018J	0.014U
PCB-36	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-37	NC	NC	ng/g	0.85	0.052	0.063
PCB-38	NC	NC	ng/g	0.0054Q,J	0.012U	0.014U
PCB-39	NC	NC	ng/g	0.021	0.012U	0.014U
PCB-4	NC	NC	ng/g	0.13	0.024U	0.013Q,J
PCB-40	NC	NC	ng/g	2.5C	0.036C	0.068C
PCB-41	NC	NC	ng/g	2.5C40	0.036C40	0.068C40
PCB-42	NC	NC	ng/g	1.2	0.016Q	0.029
PCB-43	NC	NC	ng/g	0.17C	0.012U	0.0039C,J
PCB-44	NC	NC	ng/g	4.6B,C	0.066B,C	0.11B,C
PCB-45	NC	NC	ng/g	0.80C	0.0053C,J	0.023C
PCB-46	NC	NC	ng/g	0.29	0.012U	0.0087Q,J
PCB-47	NC	NC	ng/g	4.6B,C44	0.066B,C44	0.11B,C44
PCB-48	NC	NC	ng/g	0.89	0.010J	0.03
PCB-49	NC	NC	ng/g	2.9C	0.040C	0.062C
PCB-5	NC	NC	ng/g	0.0057Q,J	0.012U	0.0016Q,J
PCB-50	NC	NC	ng/g	0.64C	0.0037Q,C,J	0.013C,J
PCB-51	NC	NC	ng/g	0.80C45	0.0053C45,J	0.023C45
PCB-53	NC	NC	ng/g	0.64C50	0.0037Q,C50,J	0.013C50,J
PCB-54	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-55	NC	NC	ng/g	0.053Q	0.0053Q,J	0.0034Q,J
PCB-56	NC	NC	ng/g	1.9	0.14	0.061
PCB-57	NC	NC	ng/g	0.02	0.012U	0.014U
PCB-58	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-6	NC	NC	ng/g	0.090Q	0.0018Q,J	0.024Q
PCB-61	NC	NC	ng/g	7.9B,C	0.38B,C	0.18B,C
PCB-62	NC	NC	ng/g	0.41C59	0.0052Q,C59,J	0.013C59,J
PCB-63	NC	NC	ng/g	0.18	0.0059J	0.0028Q,J
PCB-65	NC	NC	ng/g	4.6B,C44	0.066B,C44	0.11B,C44
PCB-66	NC	NC	ng/g	4.6	0.26	0.11
PCB-67	NC	NC	ng/g	0.22	0.0030J	0.014U
PCB-68	NC	NC	ng/g	0.036	0.012U	0.014U

NOTES:
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C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 122
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3108-03 WB915-REACH C 02/06/2013 0-1 FT Regular sample	SB915-3108-02 WB915-REACH D 02/06/2013 0-1 FT Regular sample	SB915-3108-01 WB915-REACH F 02/06/2013 0-1 FT Regular sample
PCB-69	NC	NC	ng/g	2.9C49	0.040C49	0.062C49
PCB-7	NC	NC	ng/g	0.025Q	0.012U	0.0025Q,J
PCB-70	NC	NC	ng/g	7.9B,C61	0.38B,C61	0.18B,C61
PCB-71	NC	NC	ng/g	2.5C40	0.036C40	0.068C40
PCB-73	NC	NC	ng/g	0.17C43	0.012U	0.0039C43,J
PCB-74	NC	NC	ng/g	7.9B,C61	0.38B,C61	0.18B,C61
PCB-76/66	NC	NC	ng/g	7.9B,C61	0.38B,C61	0.18B,C61
PCB-77	NC	NC	ng/g	0.36	0.071	0.0090Q,J
PCB-78	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-79	NC	NC	ng/g	0.041	0.012U	0.014U
PCB-8	NC	NC	ng/g	0.35B	0.0093Q,B,J	0.10Q,B
PCB-80	NC	NC	ng/g	0.019U	0.012U	0.014U
PCB-81	NC	NC	ng/g	0.0094Q,J	0.0027Q,J	0.014U
PCB-82	NC	NC	ng/g	0.86	0.043	0.0051J
PCB-83	NC	NC	ng/g	3.5C	0.10C	0.014C
PCB-84	NC	NC	ng/g	1.7	0.026	0.0080J
PCB-85	NC	NC	ng/g	1.1C	0.049C	0.0049C,J
PCB-86	NC	NC	ng/g	3.7C	0.13C	0.018C
PCB-87	NC	NC	ng/g	3.7C86	0.13C86	0.018C86
PCB-88	NC	NC	ng/g	0.83C	0.013C	0.0045C,J
PCB-89	NC	NC	ng/g	0.078Q	0.012U	0.014U
PCB-9	NC	NC	ng/g	0.022Q	0.012U	0.0049Q,J
PCB-90	NC	NC	ng/g	5.7B,C	0.14B,C	0.018Q,B,C
PCB-92	NC	NC	ng/g	1.1	0.02	0.0032Q,J
PCB-93	NC	NC	ng/g	0.029Q,C	0.012U	0.014U
PCB-94	NC	NC	ng/g	0.025	0.012U	0.014U
PCB-95	NC	NC	ng/g	4.6	0.07	0.016
PCB-96	NC	NC	ng/g	0.044Q	0.012U	0.014U
PCB-97	NC	NC	ng/g	3.7C86	0.13C86	0.018C86
Total Di-CB	NC	NC	ng/g	1.3EMPC	0.045EMPC	0.21EMPC
Total Hepta-CB	NC	NC	ng/g	24EMPC	0.26EMPC	0.0082EMPCJ
Total Hexa-CB	NC	NC	ng/g	24EMPC	0.63EMPC	0.031EMPCJ
Total Mono-CB	NC	NC	ng/g	0.19	0.0035EMPCJ	0.014U
Total Nona-CB	NC	NC	ng/g	2.1	0.041EMPC	0.014U
Total Octa-CB	NC	NC	ng/g	15	0.11EMPC	0.014U
Total Penta-CB	NC	NC	ng/g	38EMPC	1.5EMPC	0.16EMPC

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 122
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Ninemile Creek Sediment
Method 1668 PCB Congener and Homolog Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3108-03 WB915-REACH C 02/06/2013 0-1 FT Regular sample	SB915-3108-02 WB915-REACH D 02/06/2013 0-1 FT Regular sample	SB915-3108-01 WB915-REACH F 02/06/2013 0-1 FT Regular sample
Total Tetra-CB	NC	NC	ng/g	39EMPC	1.2EMPC	0.91EMPC
Total Tri-CB	NC	NC	ng/g	12EMPC	0.26EMPC	1.2EMPC

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; B = Analyte detected in method blank; Q = Estimated maximum possible concentration.
C (or C##) = Coeluting isomer. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 123
Honeywell
Wastebeds 9-15 Closure Investigation
Round 4 Ninemile Creek Sediment
Other Data

Parameter Name	NYS Sediment Benthic Chronic Guidance	NYS Sediment Human Health Guidance	Field Sample ID Location Sample Date Sample Depth Sample Purpose Units	SB915-3108-03 WB915-REACH C 02/06/2013 0-1 FT Regular sample	SB915-3108-02 WB915-REACH D 02/06/2013 0-1 FT Regular sample	SB915-3108-01 WB915-REACH F 02/06/2013 0-1 FT Regular sample
NITROGEN, AMMONIA (AS N)	NC	NC	mg/kg	28J	7.3J	7.2J
NITROGEN, KJELDAHL, TOTAL	NC	NC	mg/kg	980	760	500

NOTES:
J = Approximate value since the result is less than the RL and greater than or equal to the MDL; U = Analyte not detected; R = Rejected value. NC - No criteria; NA - Not analyzed.
Sediment criteria calculated using an average TOC of 3,833 mgOC/Kg (3.833 gOC/Kg).
[ ] = Value exceeds one of the sediment guidance values.

Table 124
Honeywell
Wastebeds 9-15 Closure Investigation
Environmental Fate Data

Analyte	Water Solubility (mg/L)		Koc (ml/G)		Log Kow		Aqueous Biodegredation (Hours) Aerobic High		Aerobic Low		Anerobic High		Anerobic Low	
1,2,3,4,6,7,8,9-OCDD	7.40E-08	(8)	ND	(8)	10.07-12.26	(8)	NA		NA		NA		NA	
1,2,3,4,6,7,8-HpCDD	2.40E-06	(8)	ND	(8)	9.69-11.38	(8)	NA		NA		NA		NA	
1,2,3,4,7,8-HxCDD	4.42E-06	(8)	ND	(8)	9.14-10.4	(8)	NA		NA		NA		NA	
1,2,3,7,8-PeCDD	1.18E-04	(8)	ND	(8)	8.64-9.48	(8)	NA		NA		NA		NA	
1,2,4-Trichlorobenzene	3.00E+01	(1)	9200	(1)	4.3	(1)	4320	(3)	672	(3)	2688	(3)	17280	(3)
1,2-Dichlorobenzene	1.00E+02	(1)	1700	(1)	3.6	(1)	4320	(3)	672	(3)	2880	(3)	17280	(3)
1,2-Dichloropropane	2.70E+03	(1)	51	(1)	2	(1)	30936	(3)	4008	(3)	16032	(3)	123744	(3)
1,3-Dichlorobenzene	1.23E+02	(1)	1700	(1)	3.6	(1)	4320	(3)	672	(3)	2880	(3)	17280	(3)
1,4-Dichlorobenzene	7.90E+01	(1)	1701	(1)	4.6	(1)	4321	(3)	673	(3)	2881	(3)	17281	(3)
2,3,7,8-TCDD	4.70E-04	(8)	ND	(8)	6.8	(8)	14160	(7)	10032	(7)	56640	(7)	40128	(7)
2,4,5-Trichlorophenol	1.19E+03	(1)	89	(1)	3.72	(1)	16560	(3)	552	(3)	3028	(3)	43690	(3)
2,4,6-Trichlorophenol	8.00E+02	(1)	2000	(1)	3.87	(1)	1680	(3)	168	(3)	4050	(3)	43690	(3)
2,4-Dichlorophenol	4.60E+03	(1)	380	(1)	2.9	(1)	199	(3)	66.7	(3)	324	(3)	1032	(3)
2,4-Dimethylphenol	6.20E+03	(5)	425	(5)	2.3	(5)	168	(3)	24	(3)	96	(3)	672	(3)
2-Butanone (MEK)	2.23E+05	(2)	5.2	(2)	0.29	(2)	169	(3)	25	(3)	97	(3)	673	(3)
2-Chlorophenol	1.14E+04	(6)	73	(6)	2.15	(5)	NA		NA		NA		NA	
2-Methylnaphthalene	2.54E+01	(6)	7940	(6)	4.11	(6)	NA		NA		NA		NA	
2-Methylphenol	3.10E+04	(6)	15	(6)	1.97	(6)	168	(7)	24	(7)	672	(7)	96	(7)
2-Nitrophenol	1.06E+03	(5)	65	(5)	1.79	(5)	672	(3)	168	(3)	168	(3)	672	(3)
4-Methylphenol	2.40E+04	(6)	17	(6)	1.93	(6)	16	(7)	1	(7)	672	(7)	240	(7)
4-Nitrophenol	1.13E+04	(5)	55	(5)	1.91	(5)	168	(3)	18.2	(3)	163	(3)	235	(3)
Acetone	1.00E+06	(1)	2.2	(1)	-0.24	(1)	168	(3)	24	(3)	96	(3)	672	(3)
Arocolor 1016	6.70E-01	(6)	180000	(6)	5.88	(6)	NA		NA		NA		NA	
Arocolor 1221	6.5	(6)	5800	(6)	4.38	(6)	NA		NA		NA		NA	
Arocolor 1232	2	(6)	771	(6)	4.84	(6)	NA		NA		NA		NA	
Arocolor 1242	2.40E-01	(6)	6300	(6)	5.9	(6)	NA		NA		NA		NA	
Arocolor 1248	2.00E-01	(6)	277000	(6)	6.11	(6)	NA		NA		NA		NA	
Arocolor 1254	4.10E-02	(6)	2140000	(6)	6.94	(6)	NA		NA		NA		NA	
Arocolor 1260	1.44E-02	(6)	6700000	(6)	6.91	(6)	NA		NA		NA		NA	
Barium	NA		NA		NA		NA		NA		NA		NA	
Benzene	1.75E+03	(1)	83	(1)	2.12	(1)	384	(3)	120	(3)	2688	(3)	17280	(3)
Benzo(a)anthracene	5.70E-03	(1)	1380000	(1)	5.6	(1)	NA		NA		NA		NA	
Benzo(b)flouranthene	1.40E-02	(1)	550000	(1)	6.06	(1)	14640	(3)	8640	(3)	34560	(3)	58560	(3)
Benzo(K)flouranthene	4.30E-03	(1)	550001	(1)	7.06	(1)	51360	(3)	21840	(3)	87360	(3)	205440	(3)
Benzoic acid	1.70E+03	(4)	NA		1.87	(5)	NA		NA		NA		NA	
Benzyl alcohol	3.50E+04	(6)	6.31	(6)	1.01	(6)	NA		NA		NA		NA	
Bis(2-ethylhexyl)phthalate(BEHP)	3.40E-01	(2)	NA		5.11	(2)	550	(3)	120	(3)	980	(3)	9336	(3)
Carbon disulfide	2.94E+03	(1)	54	(1)	2	(1)	NA		NA		NA		NA	
Carbon tetrachloride	7.57E+02	(1)	110	(1)	2.64	(1)	NA		NA		NA		NA	
Chlorobenzene	4.66E+02	(1)	330	(1)	2.84	(1)	3600	(3)	1632	(3)	6528	(3)	14400	(3)
Chloroethane	5.678	(10)	143	(10)	1.43	(10)	NA		NA		NA		NA	
Chloroform	8.20E+03	(1)	31	(1)	1.97	(1)	4320	(3)	672	(3)	168	(3)	672	(3)
Chromium	NA		NA		NA		NA		NA		NA		NA	

Table 124
Honeywell
Wastebeds 9-15 Closure Investigation
Environmental Fate Data

Analyte	Water Solubility (mg/L)		Koc (ml/G)		Log Kow		Aqueous Biodegredation (Hours) Aerobic High		Aerobic Low		Anerobic High		Anerobic Low	
Chrysene	6.30E-03	(2)	133000	(2)	5.66	(2)	NA		NA		NA		NA	
Copper	NA		NA		NA		NA		NA		NA		NA	
Cyanide	NA		NA		NA		NA		NA		NA		NA	
Dibenzo(a,h)anthracene	5.00E-04	(1)	3300000	(1)	6.8	(1)	NA		NA		NA		NA	
Fluoranthene	2.06E-01	(1)	38000	(1)	4.9	(1)	10560	(3)	3360	(3)	13440	(3)	42240	(3)
Fluorene	1.69E+00	(1)	7300	(1)	4.2	(1)	1440	(3)	768	(3)	3072	(3)	5760	(3)
Hexachlorobenzene	6.00R-03	(1)	3900	(1)	5.23	(1)	NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	5.30E-04	(1)	1600000	(1)	6.5	(1)	17520	(3)	14400	(3)	57600	(3)	70080	(3)
Iron	NA		NA		NA		NA		NA		NA		NA	
Lead	NA		NA		NA		NA		NA		NA		NA	
Methylene chloride	6.50E+03	(1)	35	(1)	0.95	(1)	NA		NA		NA		NA	
Mercury	3.00E-02	(6)					NA		NA		NA		NA	
Naphthalene	3.17E+01	(5)	812	(5)	31.7	(5)	NA		NA		NA		NA	
Nitrobenzene	NA		NA		NA		NA		NA		NA		NA	
Phenanthrene	1.00E+00	(1)	14000	(1)	4.46	(1)	4800	(3)	384	(3)	1536	(3)	19200	(3)
Phenol	9.30E+04	(1)	14.2	(1)	1.46	(1)	84	(3)	6	(3)	192	(3)	672	(3)
Pyrene	1.32E-01	(1)	38000	(1)	4.88	(1)	45600	(3)	5040	(3)	20160	(3)	182400	(3)
Silver	NA		NA		NA		NA		NA		NA		NA	
Sodium	NA		NA		NA		NA		NA		NA		NA	
Tetrachloroethene	1.50E+02	(9)	660	(9)	3.4	(9)	NA		NA		NA		NA	
Toluene	5.35E+02	(1)	300	(1)	2.73	(1)	528	(3)	96	(3)	1344	(3)	5040	(3)
Trichloroethene	1.10E+03	(1)	126	(1)	2.38	(1)	NA		NA		NA		NA	
Vinyl Chloride	2.67E	(1)	57	(1)	1.38	(1)	NA		NA		NA		NA	
Xylene (total)	1.98E+02	(1)	240	(1)	3.26	(1)	672	(3)	168	(3)	4320	(3)	8640	(3)

Notes:

(1) - Superfund Public Health Evaluation Manual (U.S. EPA540/1-86/60, October 1986). (2) - Update of Physical, Chemical, and Environmental Fate Data (SRC, June, 1991).

(3) - Chemical Fate Rate Constants (U.S. EPA/68-02-4254). (4) - Merck Indx. (5) - Fate and Exposure Data, Howard (Lewis Publishers, 1990).

(6) - Electronic Handbook for Risk Assessment Values. (7) - handbook of Environmental Degredation Rates (Lewis Publishers, 1991).

(8) - Toxicological profile for Chlorinated Dibenzo- p-dioxins Update (U.S. Dept. of Health and Human Services ATSDR, September 1997).

(9) - Dermal Exposure Assessment EPA/600/8-9011. (10) Toxicological profile for chloroethane (U.S. Department of Health and Human Services ATSDR, 1998.

Figures

FIGURE 1



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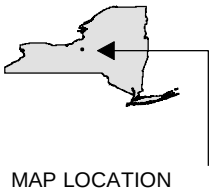
HONEYWELL
SETTLING BASINS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY



MAP LOCATION

N

SITE LOCATION

0 1,000 2,000 4,000 6,000 8,000

Feet

NOVEMBER 2017
1163.48127

1:24,000

O'BRIEN & GERE

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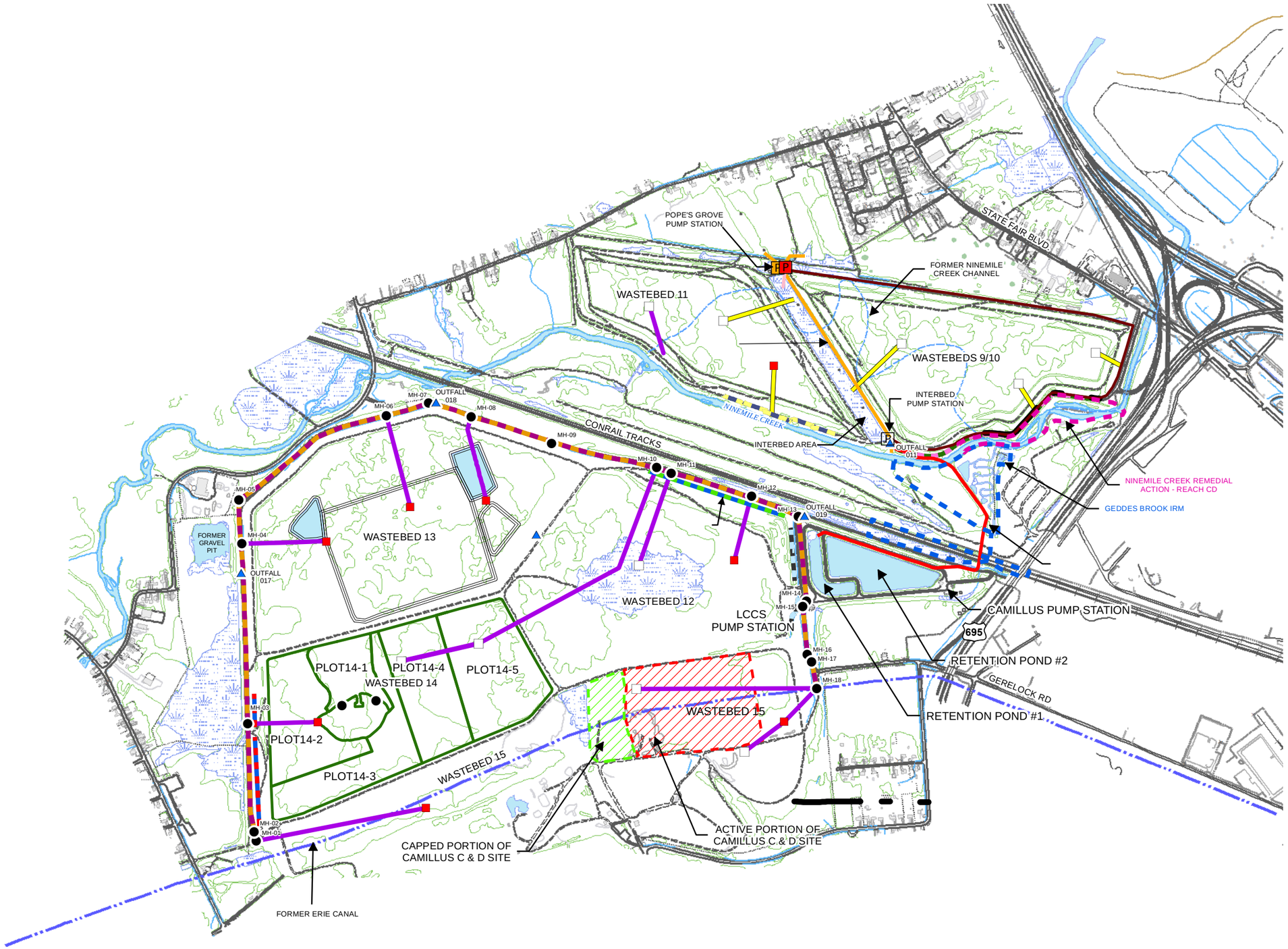
FIGURE 2



LEGEND

PUMP STATIONS

- LEACHATE WET WELL
- STORM WATER WET WELL
- PUMP STATION
- WEIR BOX (NOT FOUND)
- WEIR BOX
- OUTFALL
- MANHOLES

CONVEYANCE PIPES

- LEACHATE DISCHARGE TO INTERBED
- OUTFALL 011 CONVEYANCE PIPE
- INTERBED DISCHARGE PIPE TO RETENTION POND
- WASTEBEDS 9/10 COLLECTION PIPE
- PHASE 1 TRENCH
- PHASE 2 TRENCH
- GROUNDWATER INTECEPTOR WALL
- PHASE 4 COLLECTION SYSTEM
- PHASE 5 COLLECTION SYSTEM
- PHASE 6 TRENCH
- LCCS

OVERFLOW PIPE

- NOT FOUND
- FOUND
- WILLOW PLOT
- SCA BOUNDARY

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

SITE PLAN

0 600 1,200 2,400
Feet

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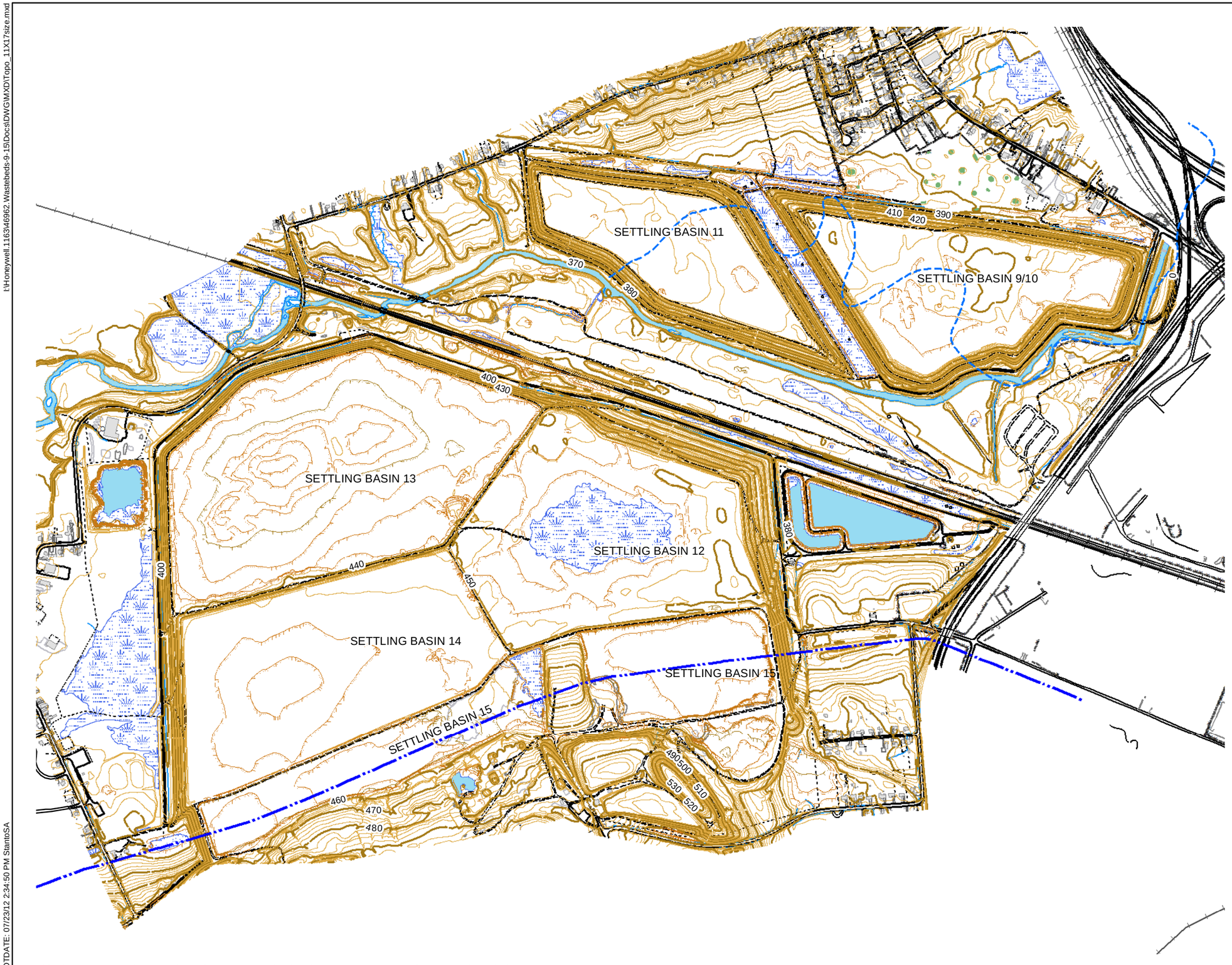
FIGURE 3



N

LEGEND

CONTOUR INTERVAL

- 10-FT
- 10-FT DEPRESSION
- 2-FT
- 2-FT DEPRESSION

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

TOPOGRAPHIC MAP

0 500 1,000 2,000
Feet

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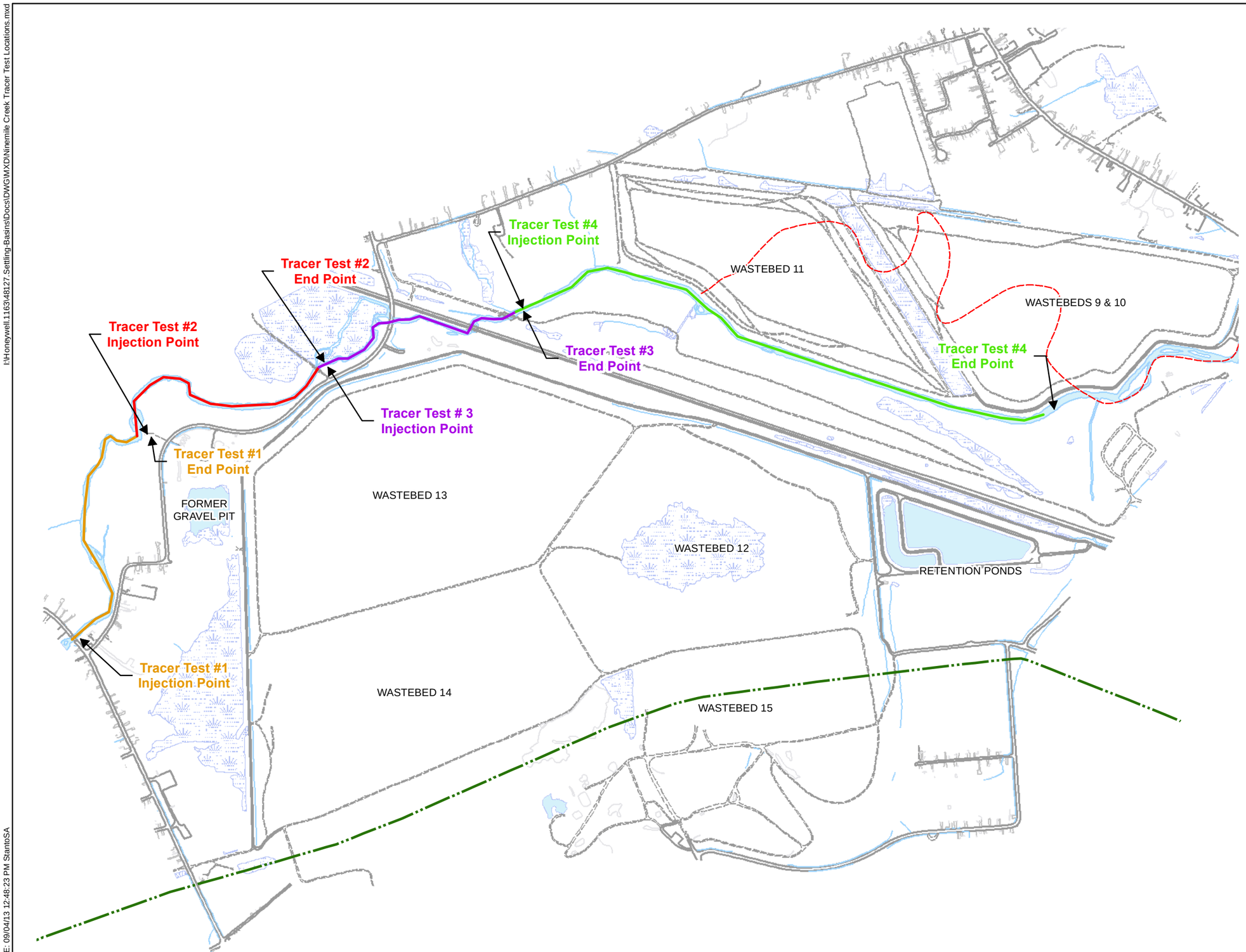
FIGURE 4



N

LEGEND

- TRACER TEST REACH #1
- TRACER TEST REACH #2
- TRACER TEST REACH #3
- TRACER TEST REACH #4
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NINEMILE CREEK TRACER TEST LOCATIONS

0 500 1,000 2,000
Feet

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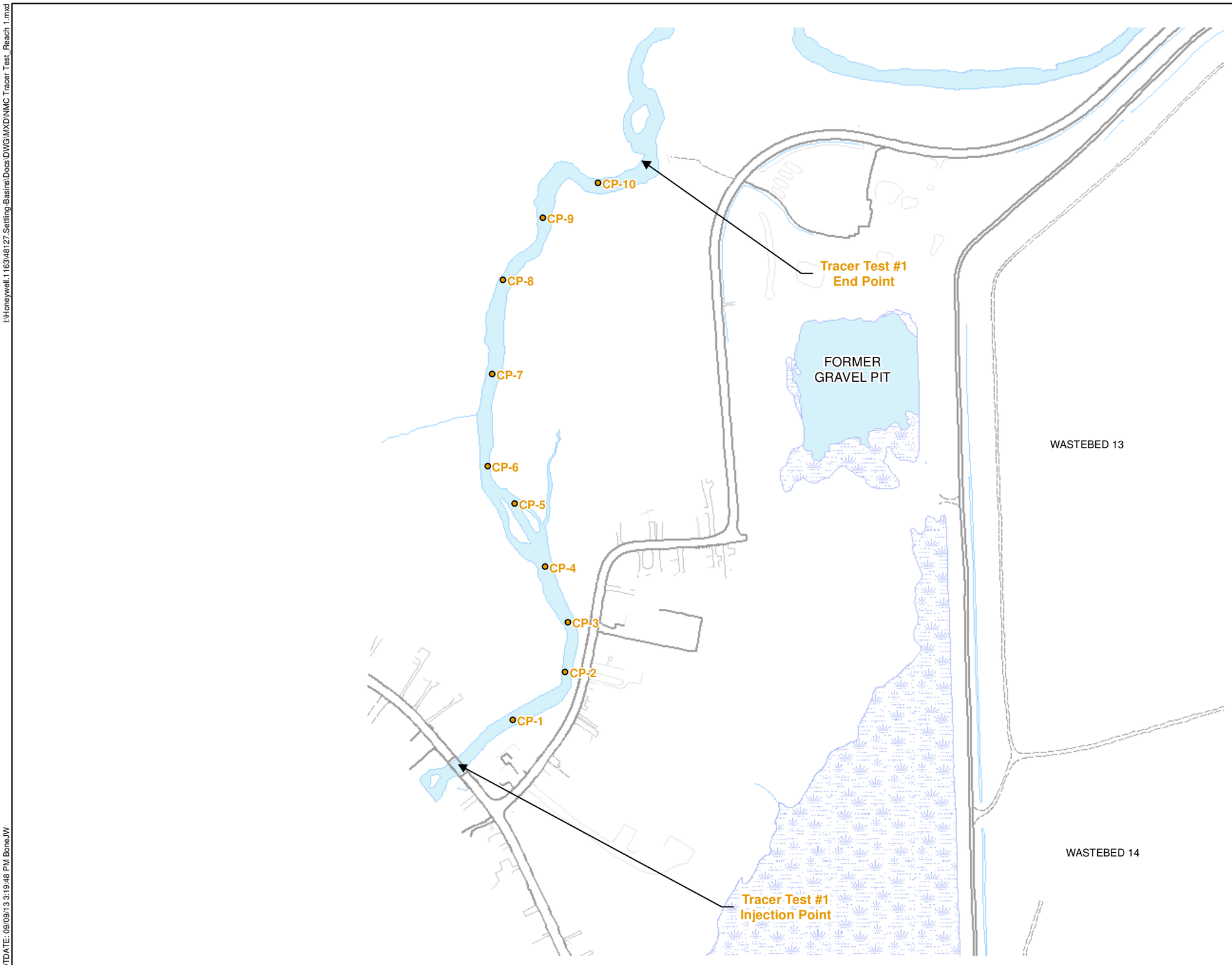

FIGURE 5

N

LEGEND

- TRACER TEST #1 COLLECTION POINTS

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NMC TRACER TEST REACH # 1

0 200 400 800
Feet

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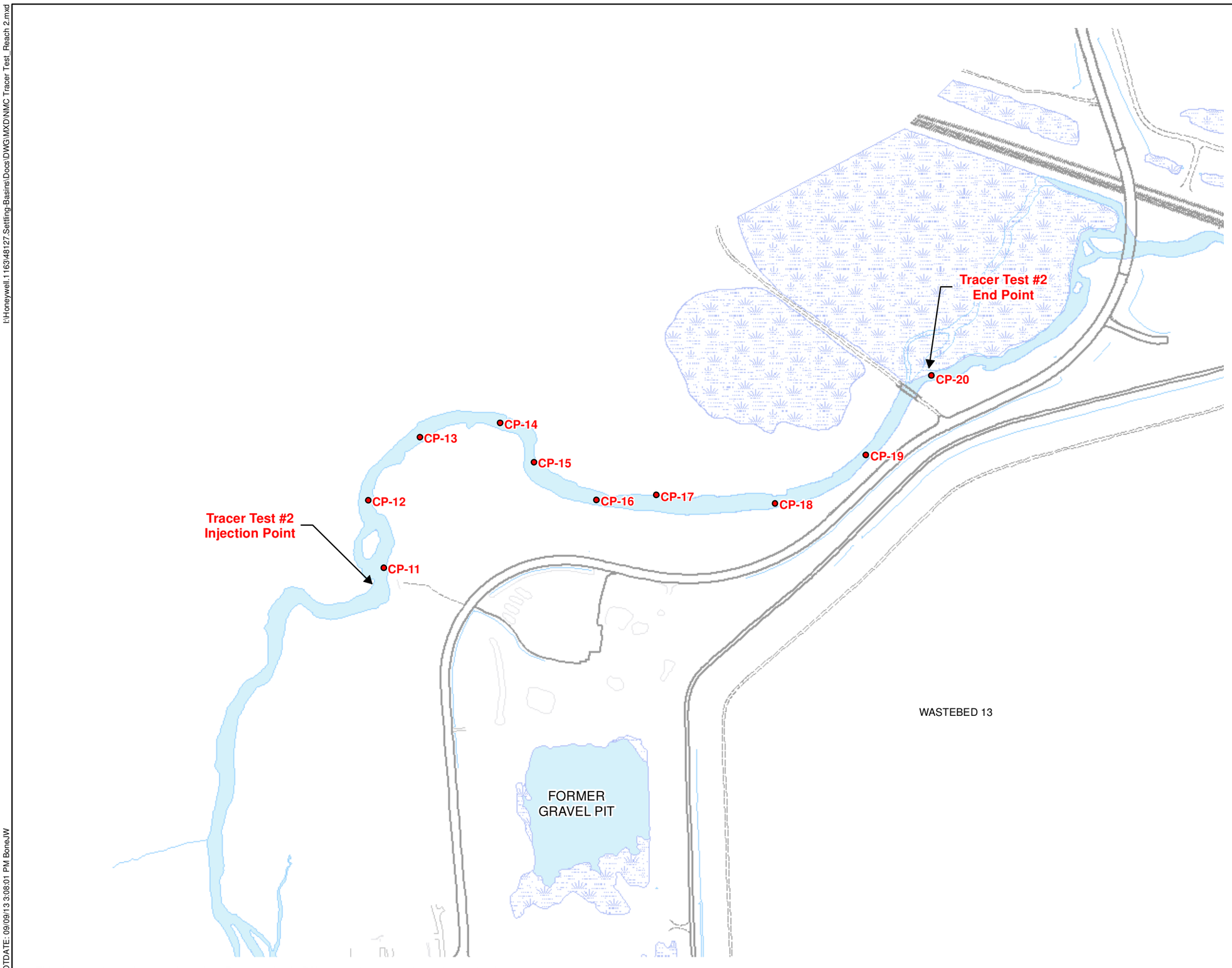
FIGURE 6



N

LEGEND

- TRACER TEST #2 COLLECTION POINTS

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NMC TRACER TEST REACH # 2

0 200 400 800
Feet

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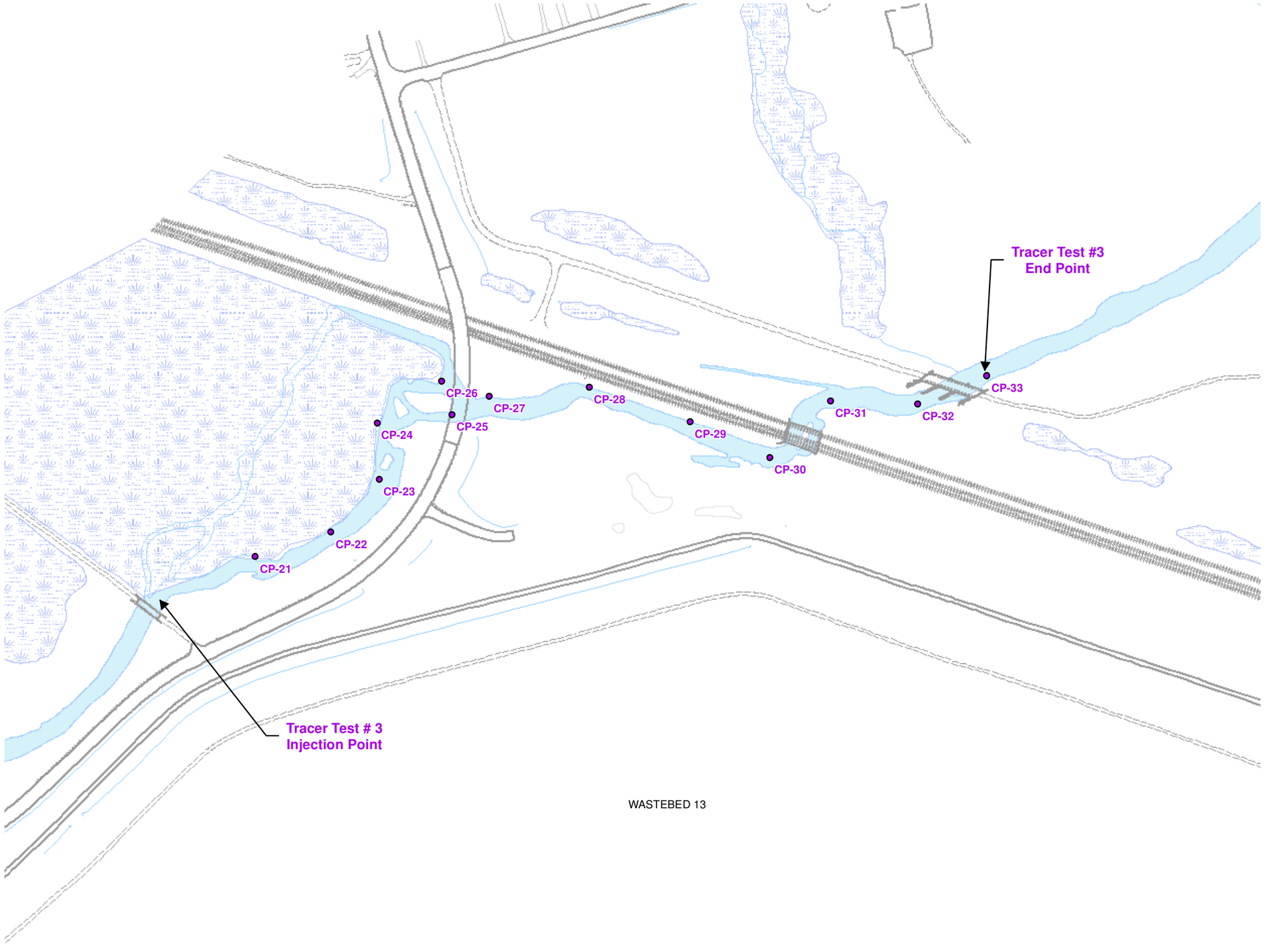
FIGURE 7



N

LEGEND

- TRACER TEST #3 COLLECTION POINTS

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NMC TRACER TEST REACH # 3

0 150 300 600
Feet

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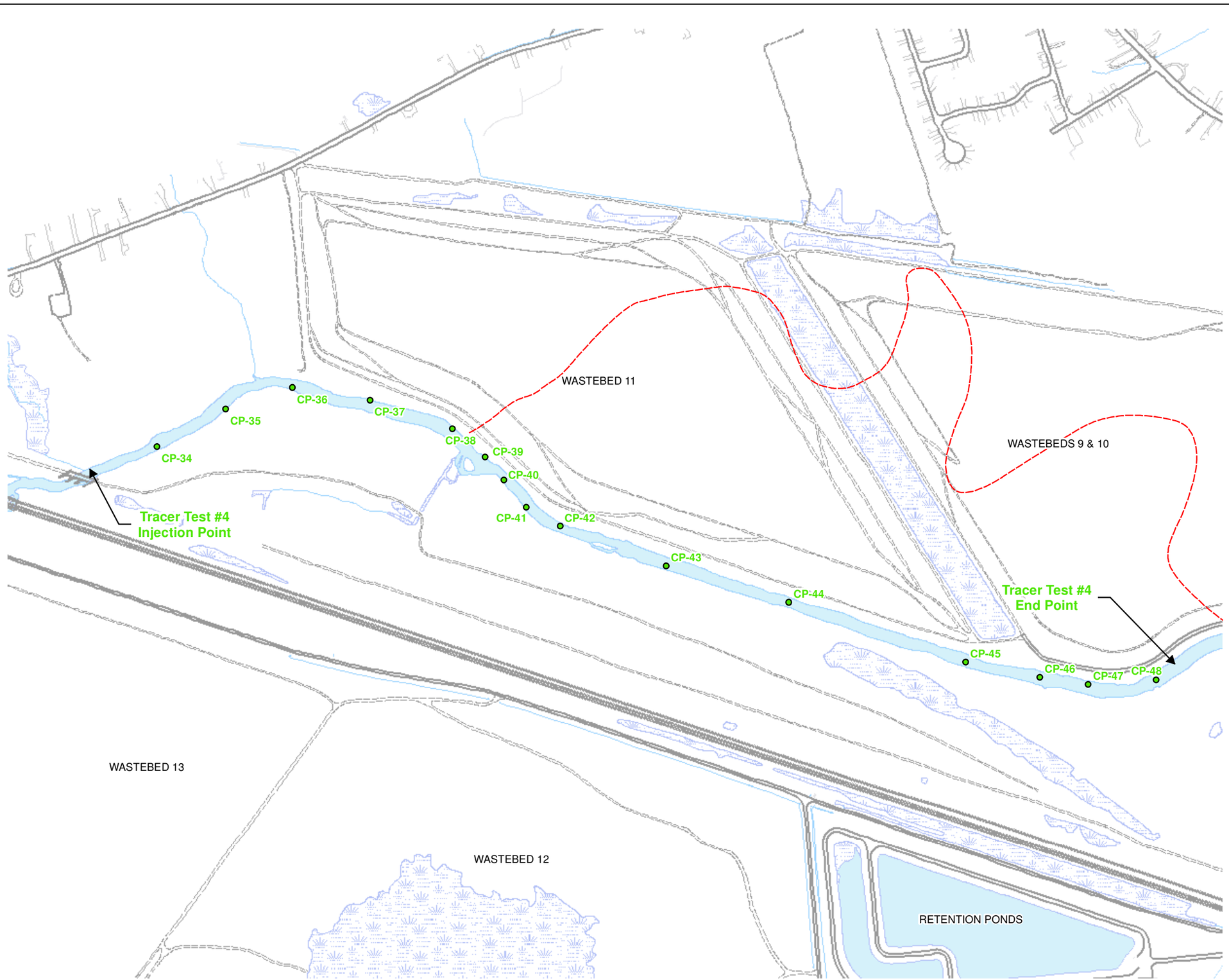
FIGURE 8



LEGEND

- TRACER TEST #4 COLLECTION POINTS
- FORMER NINEMILE CREEK CHANNEL

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NMC TRACER TEST REACH # 4

0 300 600 1,200
Feet

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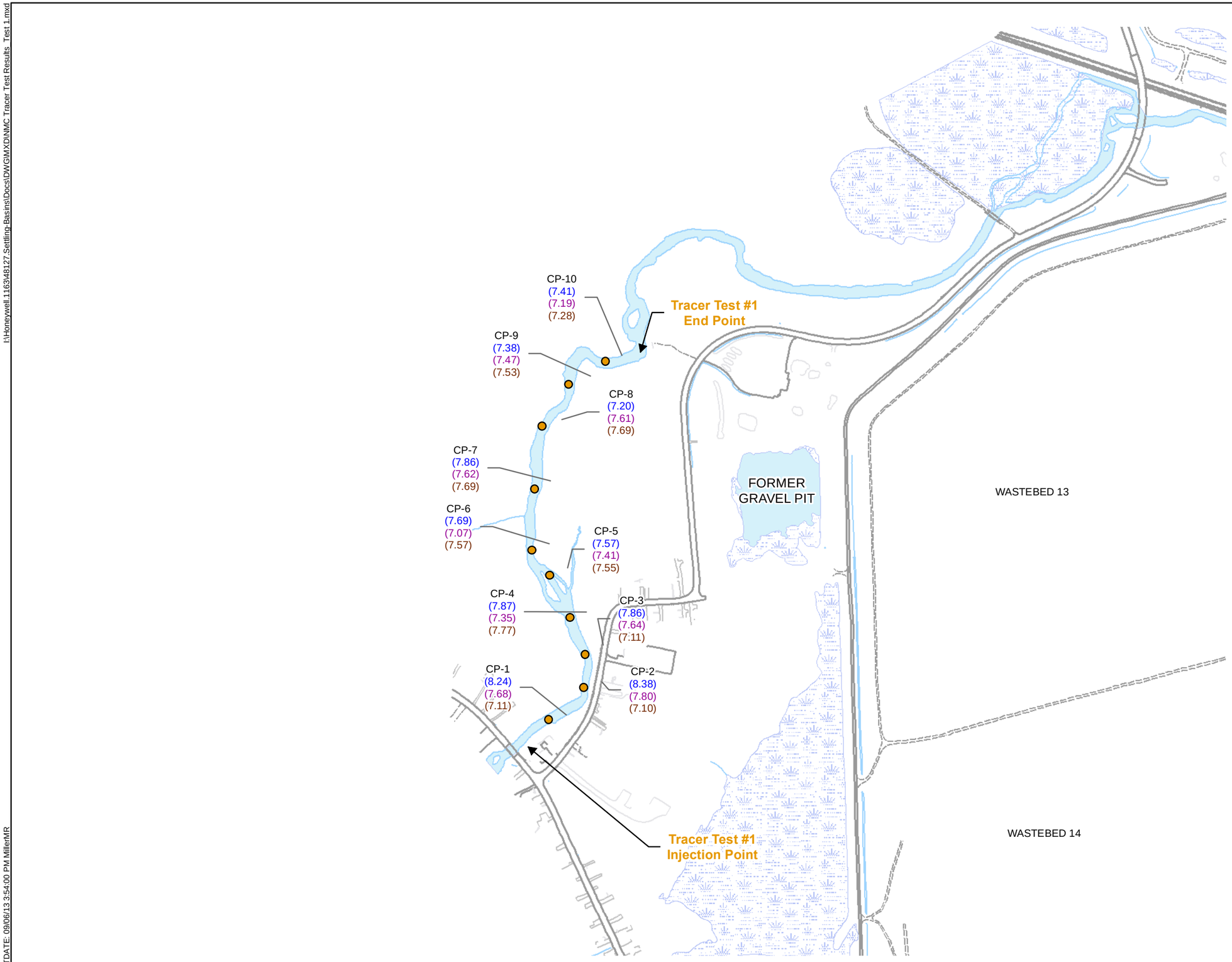
FIGURE 9



N

LEGEND

TRACER TEST # 1
COLLECTION POINTS

CP-10 - *COLLECTION POINT*
7.41 - *CONC. OF RHODAMINE ON LEFT SIDE OF NMC (PPB)*
7.19 - *CONC. OF RHODAMINE IN THE MIDDLE OF NMC (PPB)*
7.28 - *CONC. OF RHODAMINE ON RIGHT SIDE OF NMC (PPB)*

* Left, Middle, Right orientation based on looking upstream

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NMC TRACER TEST REACH # 1 RESULTS

0 300 600 1,200
Feet

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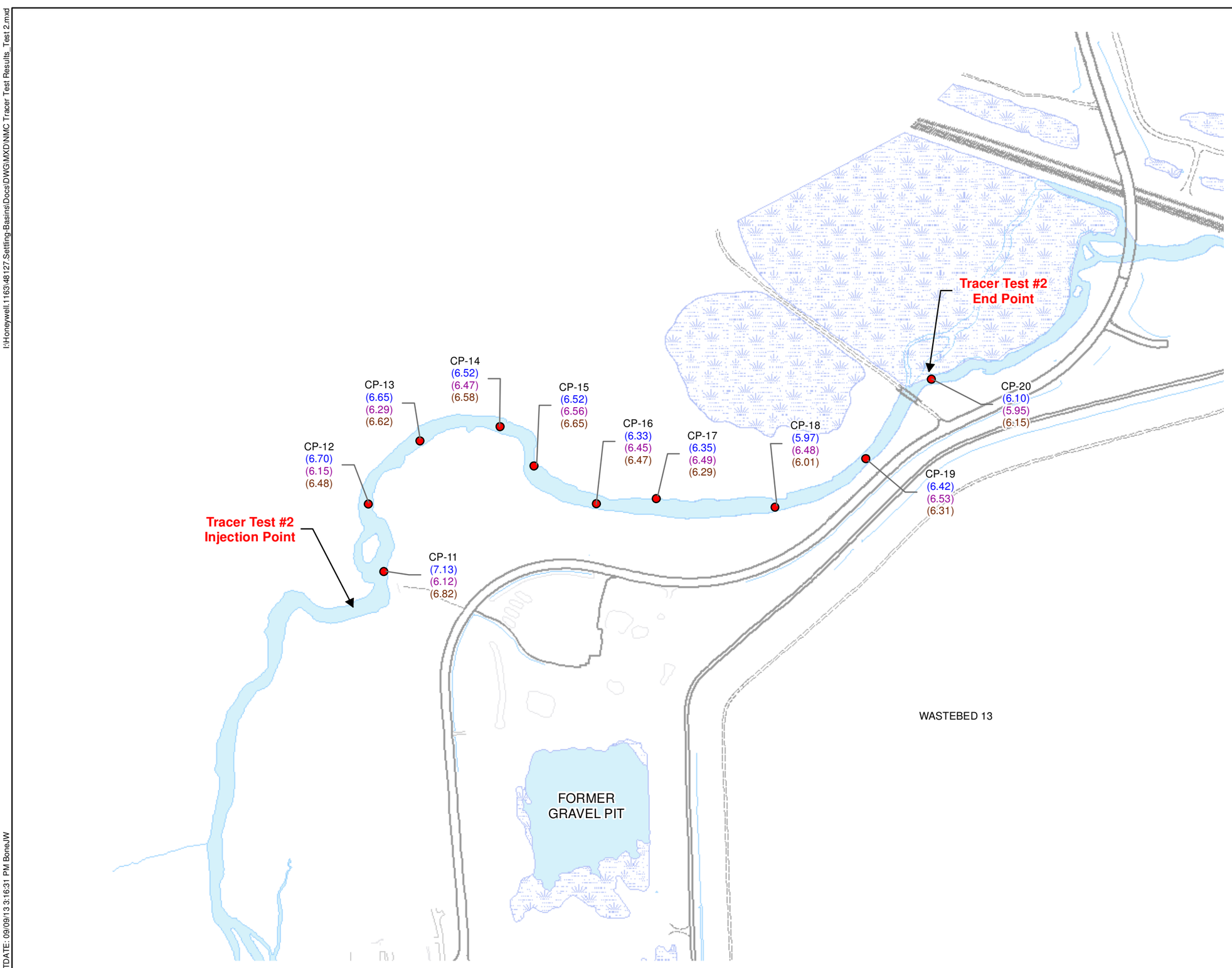
FIGURE 10



LEGEND

- TRACER TEST #2 COLLECTION POINTS

CP-20 - *COLLECTION POINT*
6.10 - *CONC. OF RHODAMINE ON LEFT SIDE OF NMC (PPB)*
5.95 - *CONC. OF RHODAMINE IN THE MIDDLE OF NMC (PPB)*
6.15 - *CONC. OF RHODAMINE ON RIGHT SIDE OF NMC (PPB)*

* Left, Middle, Right orientation based on looking upstream

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NMC TRACER TEST REACH # 2 RESULTS

0 200 400 800
Feet

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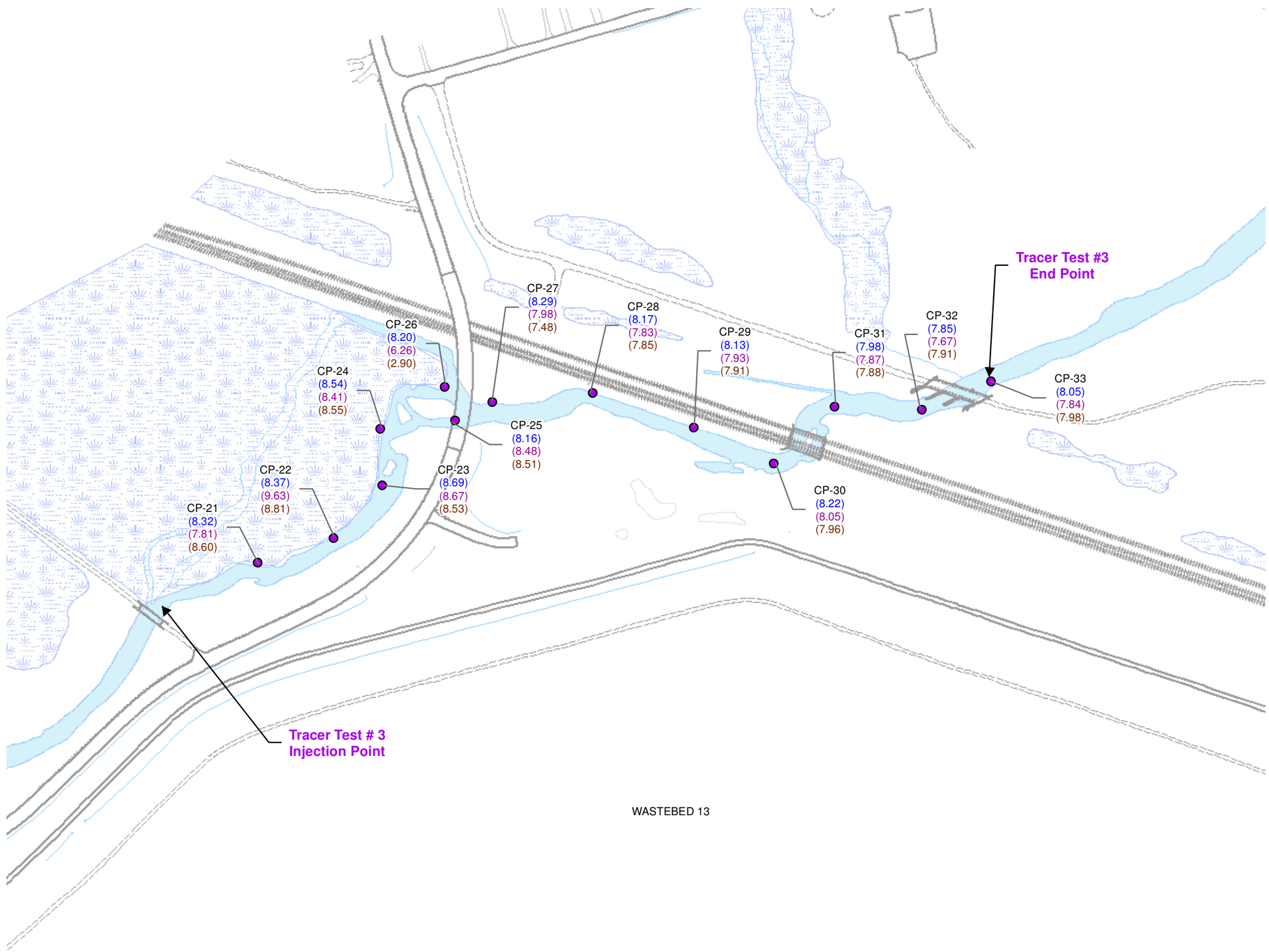
FIGURE 11



LEGEND

TRACER TEST # 3
COLLECTION POINTS

CP-33 - *COLLECTION POINT*
8.05 - *CONC. OF RHODAMINE ON LEFT SIDE OF NMC (PPB)*
7.84 - *CONC. OF RHODAMINE IN THE MIDDLE OF NMC (PPB)*
7.98 - *CONC. OF RHODAMINE ON RIGHT SIDE OF NMC (PPB)*

* Left, Middle, Right orientation based on looking upstream

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NMC TRACER TEST
REACH # 3
RESULTS

0 150 300 600
Feet

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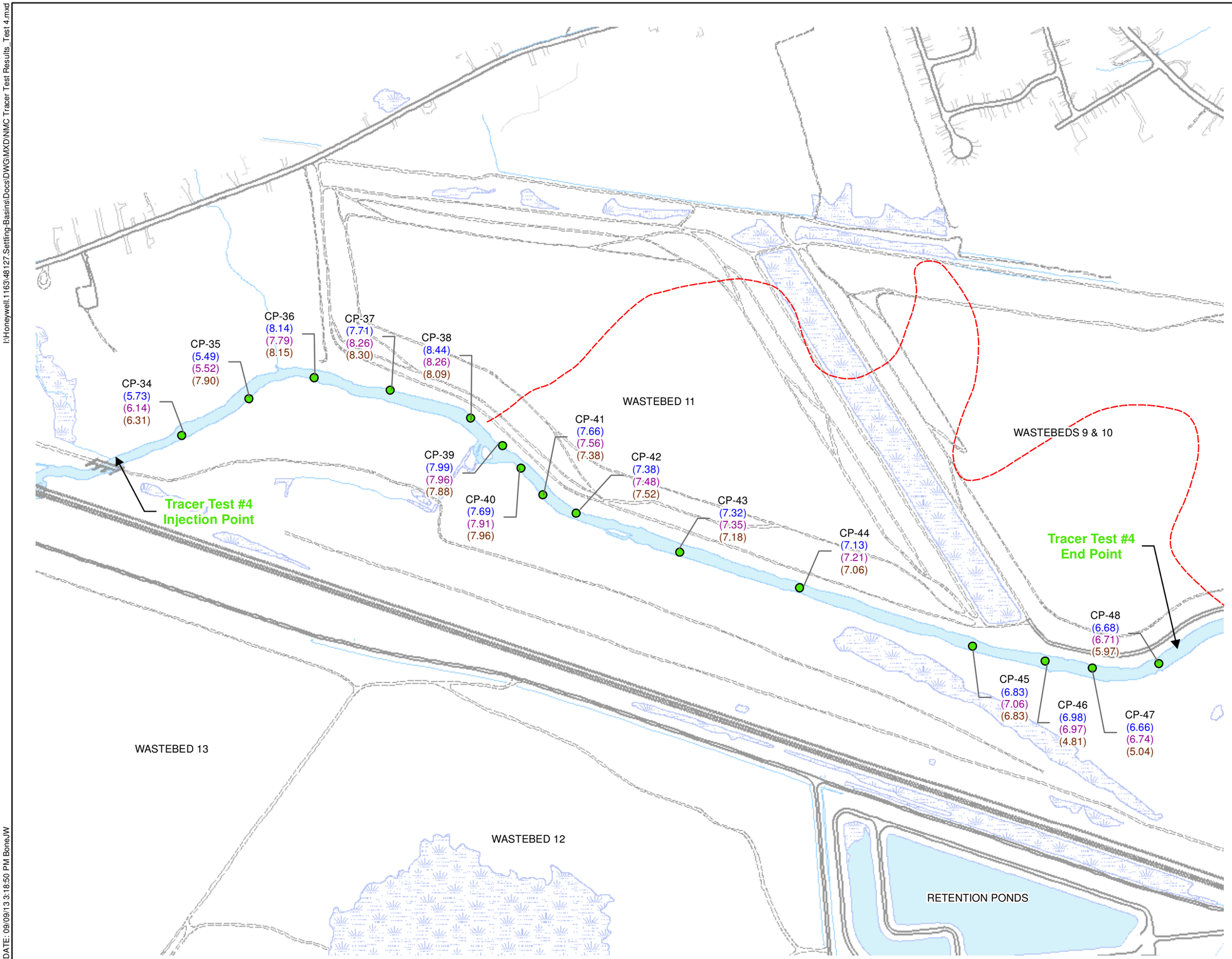
FIGURE 12



LEGEND

- TRACER TEST #4 COLLECTION POINTS
- FORMER NINEMILE CREEK CHANNEL

CP-48 - *COLLECTION POINT*
6.68 - *CONC. OF RHODAMINE ON LEFT SIDE OF NMC (PPB)*
6.71 - *CONC. OF RHODAMINE IN THE MIDDLE OF NMC (PPB)*
5.97 - *CONC. OF RHODAMINE ON RIGHT SIDE OF NMC (PPB)*

* Left, Middle, Right orientation based on looking upstream

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NMC TRACER TEST REACH # 4 RESULTS

0 300 600 1,200
Feet

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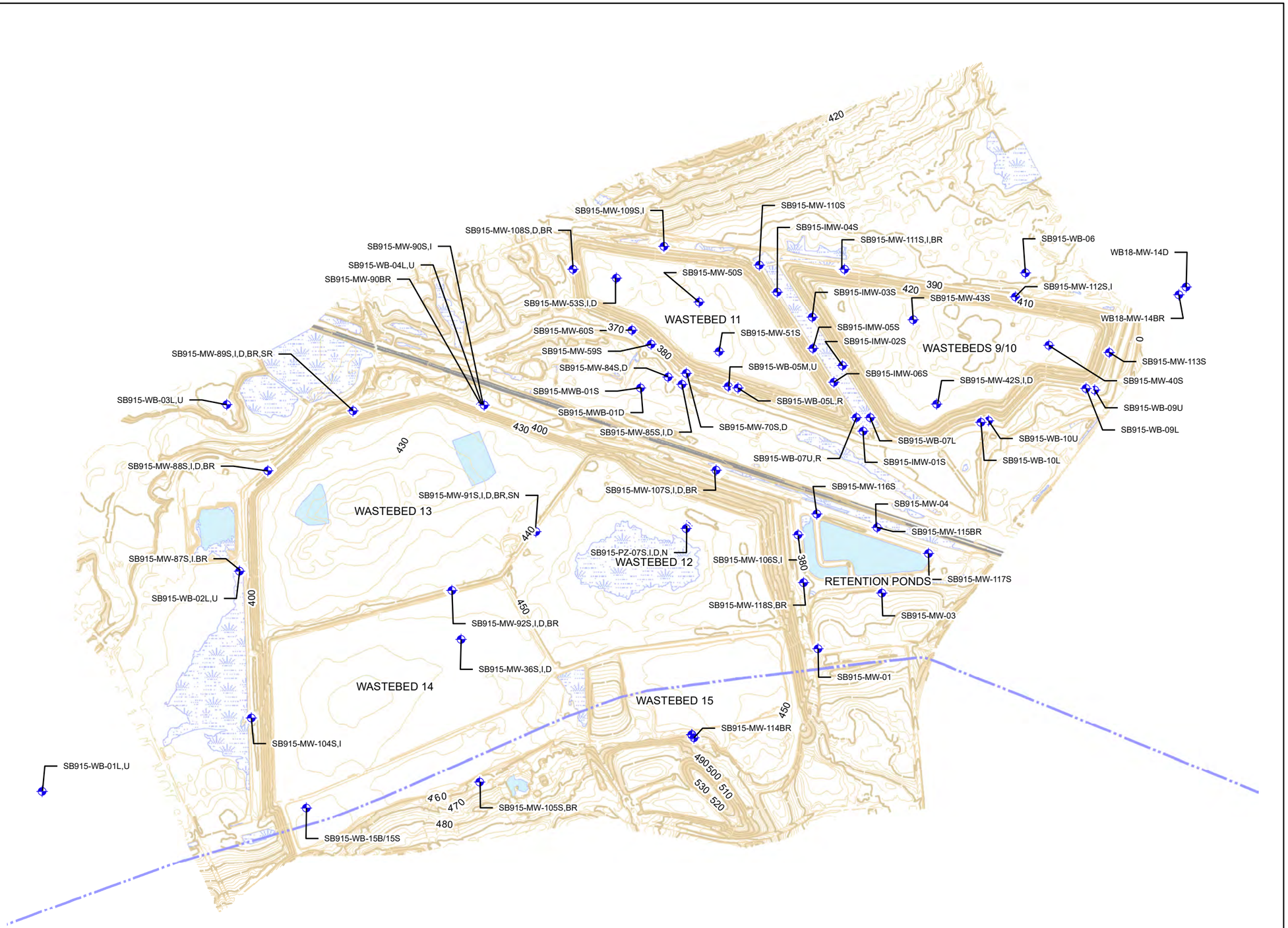
FIGURE 13



LEGEND

MONITORING WELL

HONEYWELL WASTEBEDS 9-15 CLOSURE INVESTIGATION GEDDES AND CAMILLUS, NY

MONITORING WELL SAMPLE LOCATIONS

0 600 1,200 2,400

Feet

OCTOBER 2017
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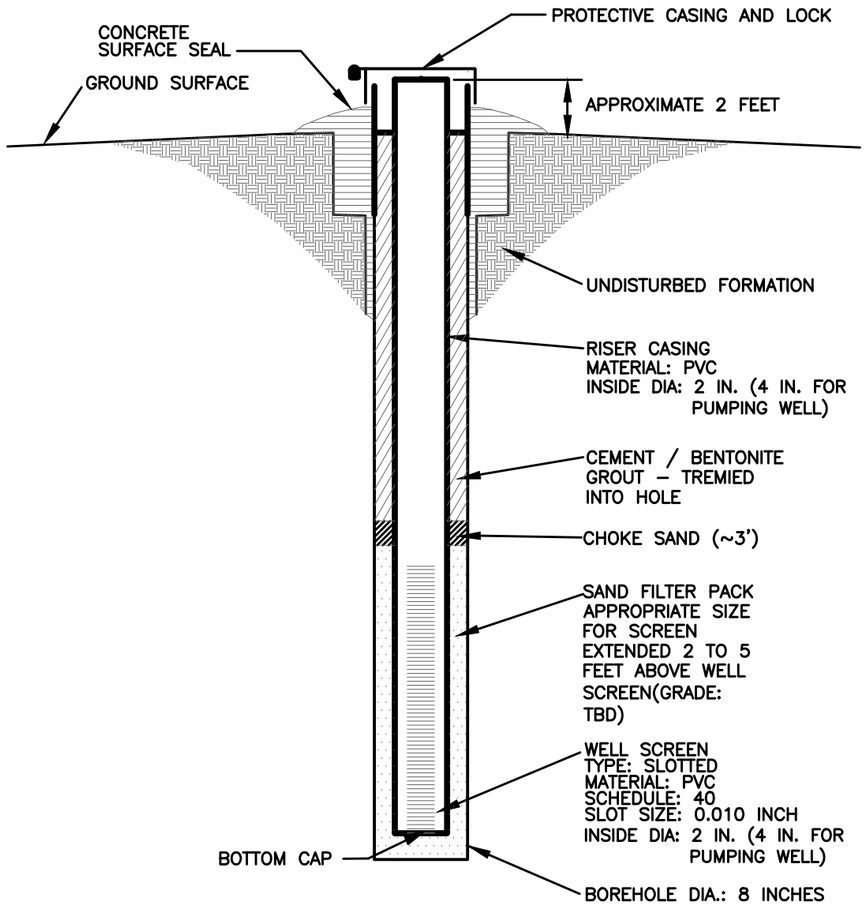
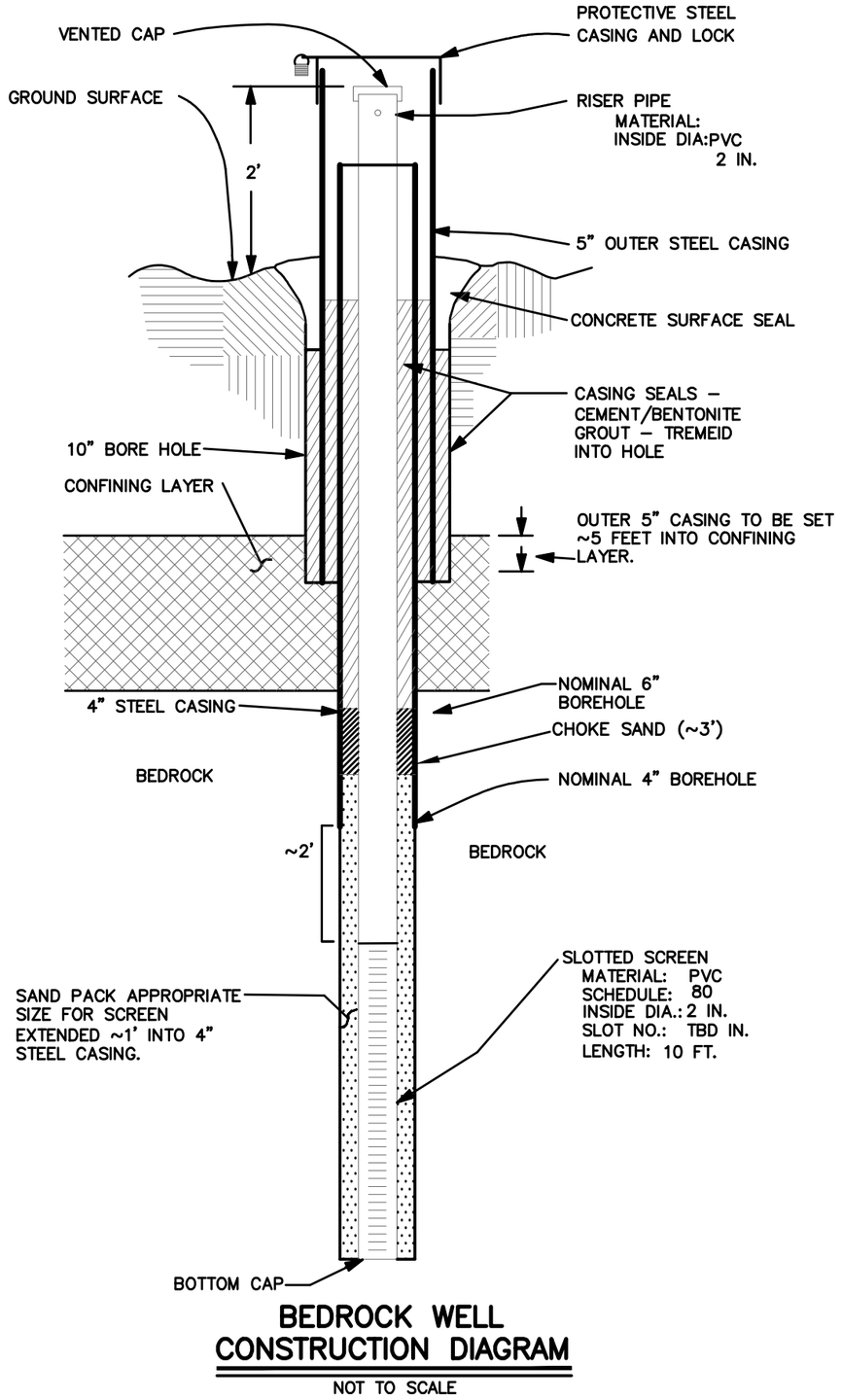
FIGURE 14



TYPICAL OVERBURDEN MONITORING WELL CONSTRUCTION DETAIL

NOT TO SCALE



BEDROCK WELL CONSTRUCTION DIAGRAM

NOT TO SCALE

HONEYWELL WASTEBEDS 9–15 SCA HYDROGEO INVESTIGATION GEDDES AND CAMILLUS NEW YORK

WELL CONSTRUCTION DETAIL

NOT TO SCALE

FILE NO. 1163.46962
SEPTEMBER 2013

O'BRIEN & GERE ENGINEERS INC.

Oct 12, 2017 - 11:12am

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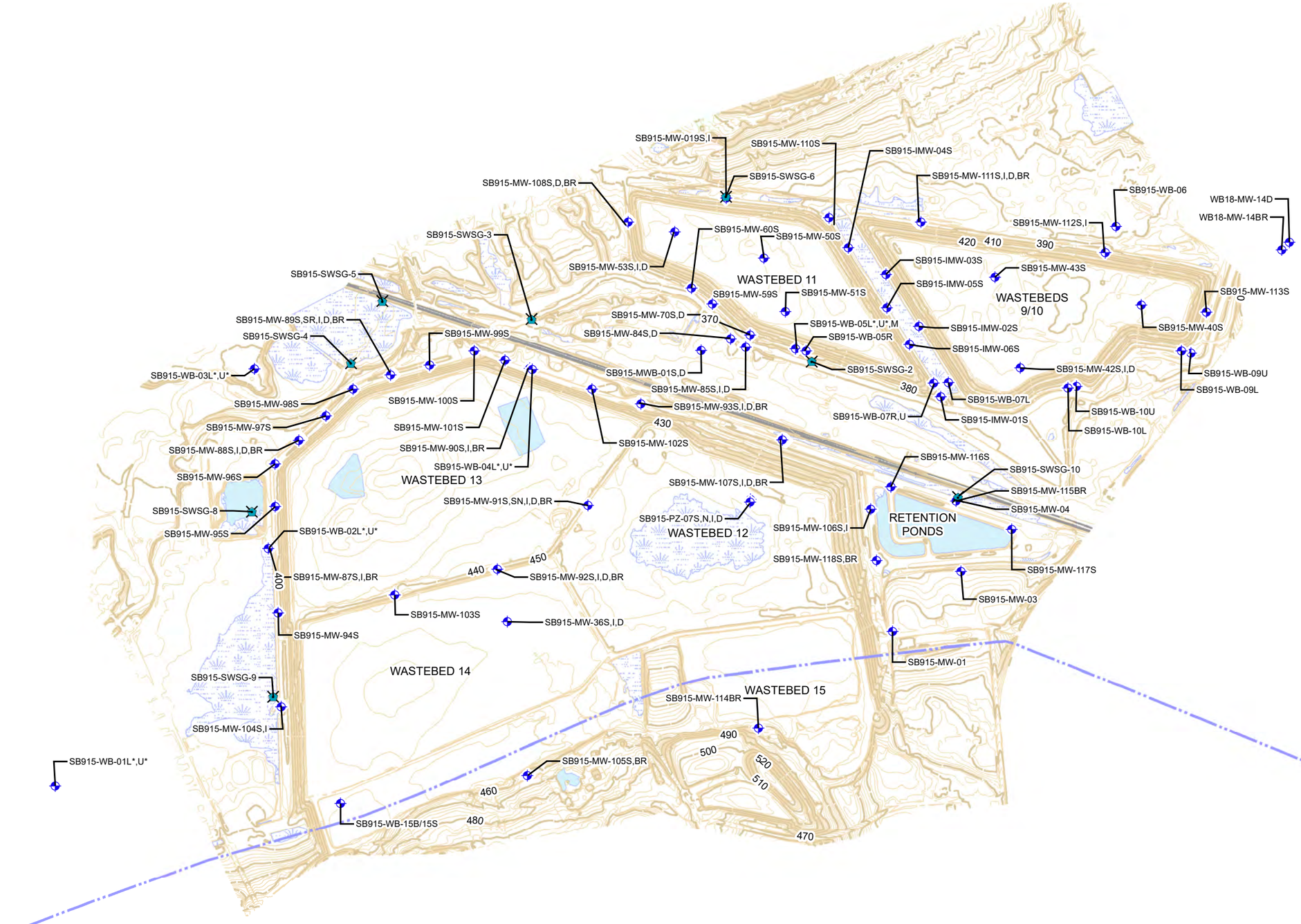

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FIGURE 15

N

LEGEND

- MONITORING WELL
- SURFACE WATER STAFF GAUGE

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

GROUNDWATER ELEVATION LOCATIONS

0 600 1,200 2,400
Feet

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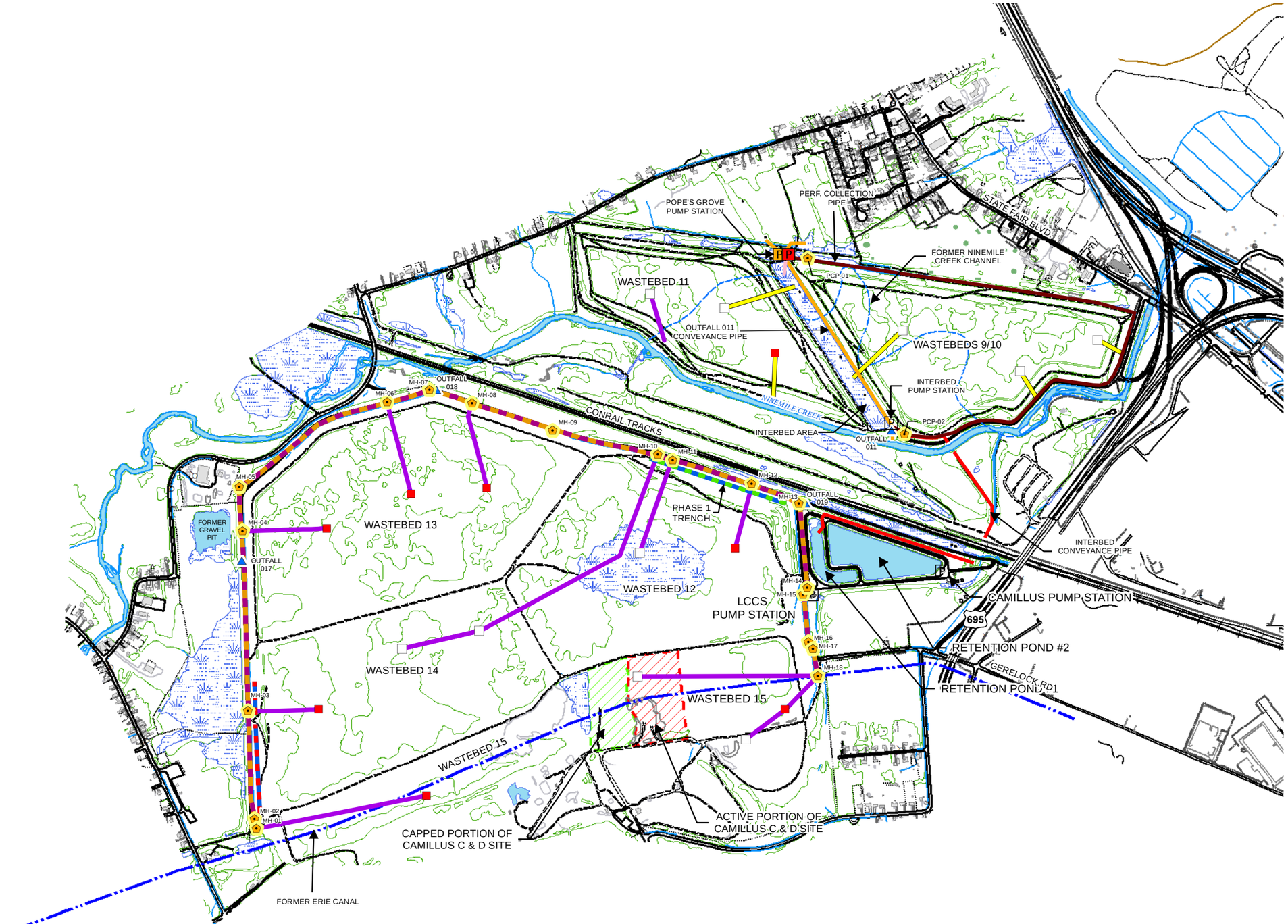

FIGURE 16

N

LEGEND

PROPOSED SAMPLE LOCATIONS

- SUBSURFACE LEACHATE SAMPLE

PUMP STATIONS

- LEACHATE WET WELL
- STORM WATER WET WELL
- PUMP STATION
- WEIR BOX (NOT FOUND)
- WEIR BOX
- OUTFALL
- MANHOLES

CONVEYANCE PIPES

- LEACHATE DISCHARGE TO INTERBED
- OUTFALL 011 CONVEYANCE PIPE
- INTERBED DISCHARGE PIPE TO RETENTION POND
- PERF. COLLECTION PIPE
- PHASE 1 TRENCH
- PHASE 2 TRENCH
- LCCS

OVERFLOW PIPE

- NOT FOUND
- FOUND

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

SUBSURFACE LEACHATE SAMPLE LOCATIONS

0 600 1,200 2,400
Feet

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FIGURE 17

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CAM-21
CAM-21 UPL
REACH A
REACH B
REACH C
REACH D
REACH E
REACH F
BEAVER MEADOW BROOK
HUDSON FARM PROPERTY
REFERENCE REACH
NINEMILE CREEK
NINEMILE CREEK OU1 REMEDIATION BOUNDARY
AMBOY DAM
GRAVEL PIT
LENS OBSERVED IN CREEK BANK
PONDED AREA NORTH OF WASTEBED 11
PONDED AREA NORTH OF WB11
INTERBED AREA
INTERBED 1
INTERBED 2
INTERBED 3
WASTEBED 9 & 10
WASTEBED 11
WASTEBED 12
WASTEBED 13
WASTEBED 14
WASTEBED 15
RETENTION POND 1
RETENTION POND 2
RETENTION POND 2-1
RETENTION POND 2-2
OUTFALL 019 DRAINAGE DITCH
IRON BROOK
GEDDES BROOK
CANOE LAUNCH
SYW-10
SYW-14
SYW-18
SB915-SWSG-02
SB915-SWSG-3
SB915-SWSG-4
SB915-SWSG-5
SB915-SWSG-6
SB915-SWSG-8
SB915-SWSG-9
SB915-SWSG-10
NMC REACH B
NMC REACH C
NMC REACH D
NMC REACH E
NMC REACH F
NMC-REFERANCE REACH
OUTFALL 011
OUTFALL 017
OUTFALL 018
OUTFALL 019
Kirk Rd
Armstrong Rd
Van Buren Rd
Airport Rd
Waterhouse Rd
Gere Lock Rd
James Ave
Pope's Grove Par Three Golf
Belle Isle Cemetery
Holy Cross Cemetery
Reed Webster Park
Nine Mile Creek
Thompson Rd
Scorpio Dr
Laura Dr
Smalkoski Rd
Hosmer Rd
Heatherwood Rd
Willow Wood Ln
Trotters Ridge Run
Briarhurst
Jane Dr
Eingerlake Dr
bing

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LEGEND

- SURFACE WATER / SEDIMENT SAMPLE
- SURFACE WATER SAMPLE
- SURFACE WATER / PISCES SAMPLER
- REACH LOCATION
- STATE WETLAND

NOTE: UPSTREAM AND DOWNSTREAM REACH LIMITS WERE LOCATED WITH GPS, DURING THE PHASE 1 SAA INVESTIGATION.

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

0 450 900 1,800
Feet

N

SURFACE WATER & SEDIMENT SAMPLE LOCATIONS

SEPTEMBER 2013
1163.48127

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FIGURE 18

N

LEGEND

SEEP LOCATIONS
- MITIGATED SEEP
- HISTORICALLY IDENTIFIED SEEP
- CLOSURE INVESTIGATION IDENTIFIED SEEP

PUMP STATIONS
- LEACHATE WET WELL
- STORM WATER WET WELL
- PUMP STATION
- WEIR BOX (NOT FOUND)
- WEIR BOX
- LCCS MANHOLE
- OUTFALL

CONVEYANCE PIPES
- LEACHATE DISCHARGE TO INTERBED
- OUTFALL 011 CONVEYANCE PIPE
- INTERBED DISCHARGE PIPE TO RETENTION POND
- PERF. COLLECTION PIPE
- PHASE 1 TRENCH
- PHASE 2 TRENCH
- PHASE 4 COLLECTION SYSTEM
- LCCS

OVERFLOW PIPE
- NOT FOUND
- FOUND
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

OBSERVED SEEP LOCATIONS

0 450 900 1,800
Feet

SEPTEMBER 2013
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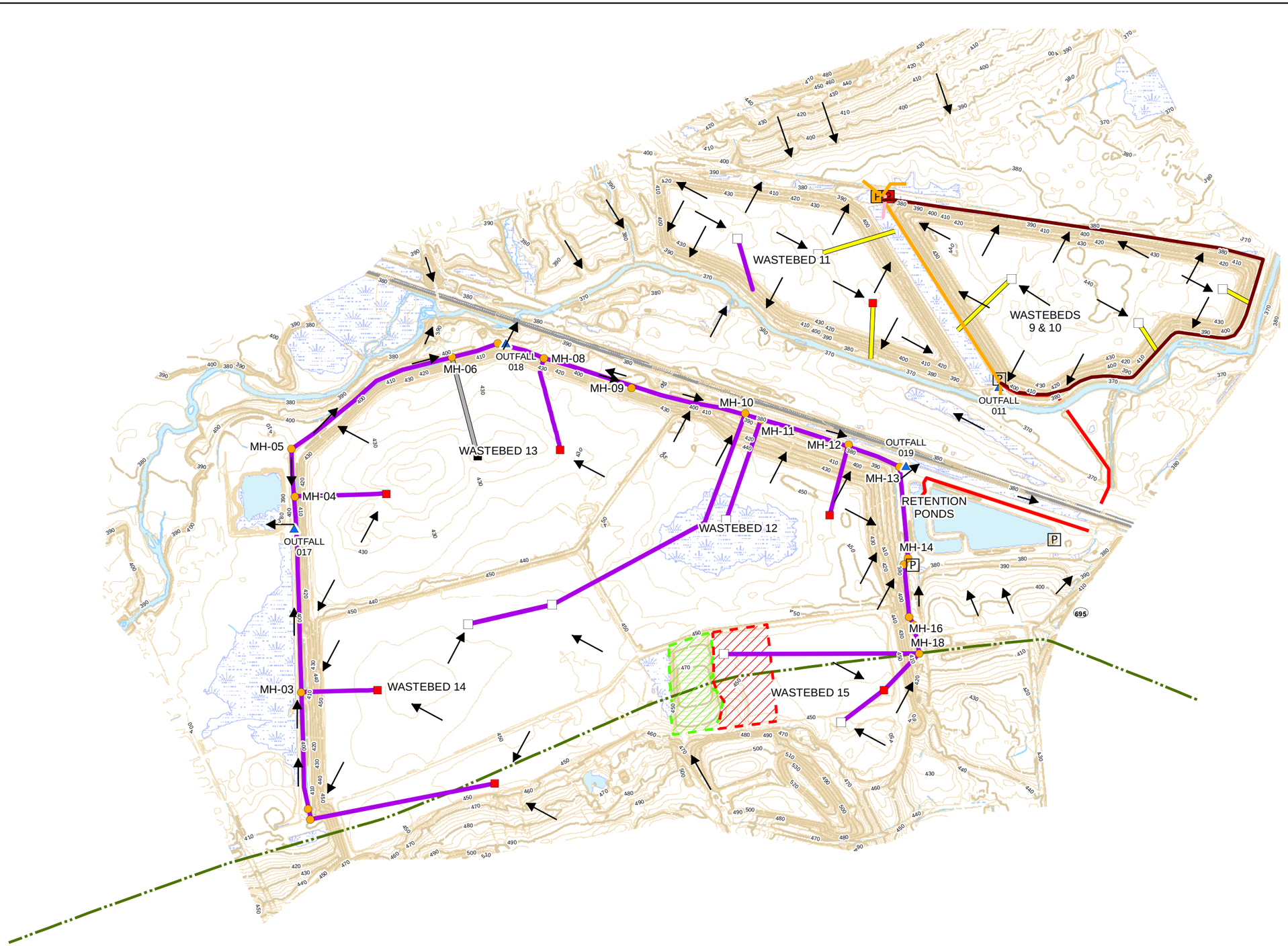

FIGURE 19

N

LEGEND

- ACTIVE PORTION OF CAMILLUS C & D LANDFILL
- CAPPED PORTION OF CAMILLUS C & D LANDFILL
- LEACHATE DISCHARGE TO INTERBED
- OUTFALL 011 CONVEYANCE PIPE
- INTERBED DISCHARGE PIPE TO RETENTION POND
- PERF. COLLECTION PIPE
- DECOMMISSIONED WEIR
- OVERFLOW PIPE (NOT FOUND)
- OVERFLOW PIPE (FOUND)
- LEACHATE WET WELL
- STORM WATER WET WELL
- PUMP STATION
- ABANDONED WEIR BOX
- WEIR BOX (NOT FOUND)
- WEIR BOX (FOUND)
- OUTFALL
- MANHOLE
- SURFACE WATER FLOW

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

SURFACE WATER DRAINAGE

0 550 1,100 2,200
Feet

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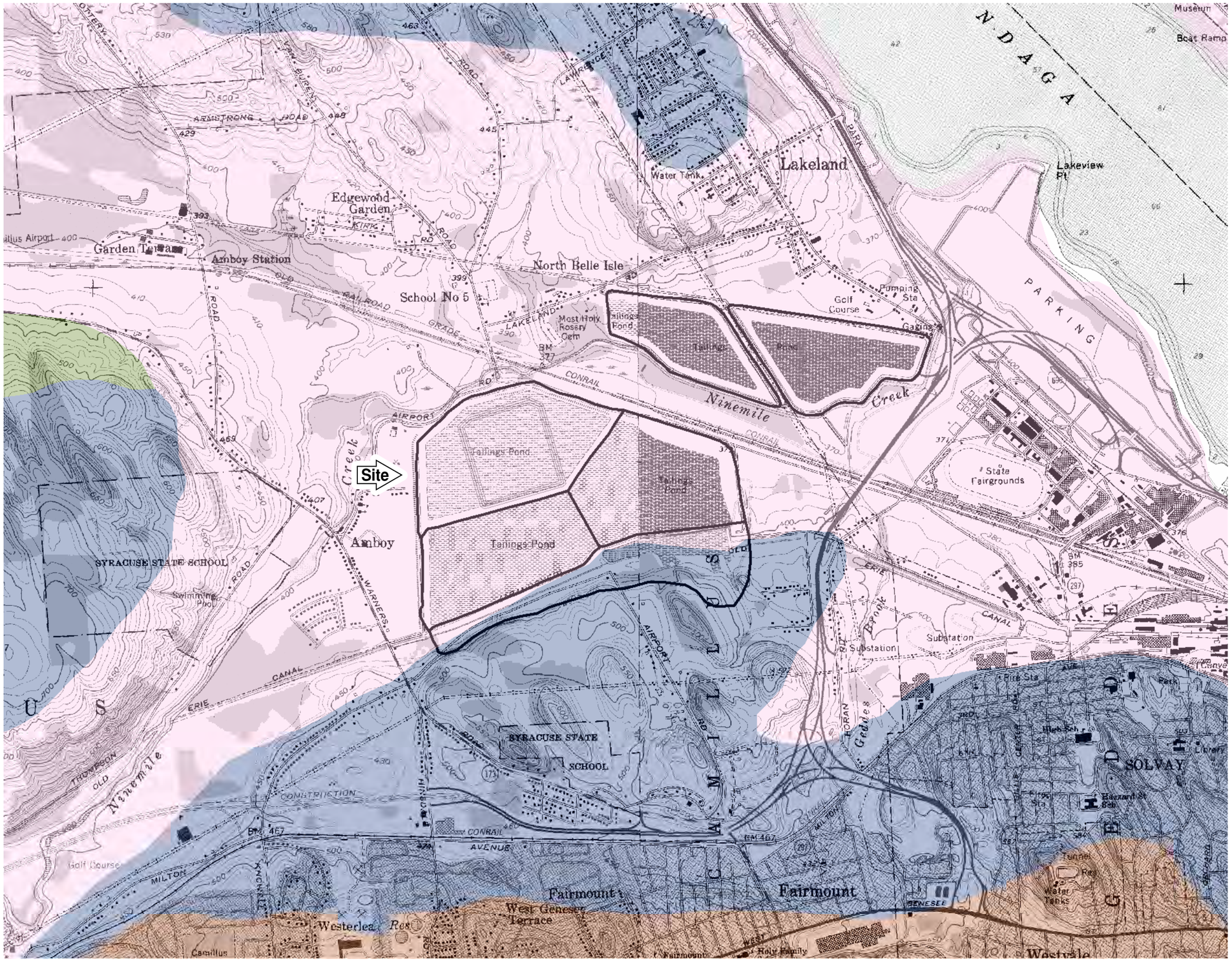
FIGURE 20



LEGEND

- PROPOSED SCA

SURFICIAL GEOLOGY

- Bedrock
- Lacustrine Silt and Clay
- Outwash Sand and Gravel
- Till

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

REGIONAL SURFICIAL GEOLOGY

0 1,000 2,000 4,000
Feet

SEPTEMBER 2013
1163.46698

O'BRIEN & GERE

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NYS Museum, NYS Geological Survey, Bedrock Attributes, version 1.0 , 7-26-1999

PATH: I:\Honeywell.1163\46698.Sca-Settling-BalDocs\DWG\MXD\SCA_SiteInvestigationReport\RegionalBedrockGeology.mxd

PLOT DATE: 01/09/12 10:31:53 AM StantoSA

PATH: I:\Honeywell.1163\46698.Sca-Settling-Ba\Docs\DWG\MXD\SCA_SiteInvestigationReport\RegionalBedrockGeology.mxd

PLOT DATE: 01/09/12 10:31:53 AM StantoSA

FIGURE 21

N

LEGEND

BEDROCK GEOLOGY

- Cobleskill Limestone
- Port Ewen Formation
- Syracuse Formation
- Vernon Formation

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

REGIONAL BEDROCK GEOLOGY

0 1,000 2,000 4,000
Feet

SEPTEMBER 2013
1163.46698

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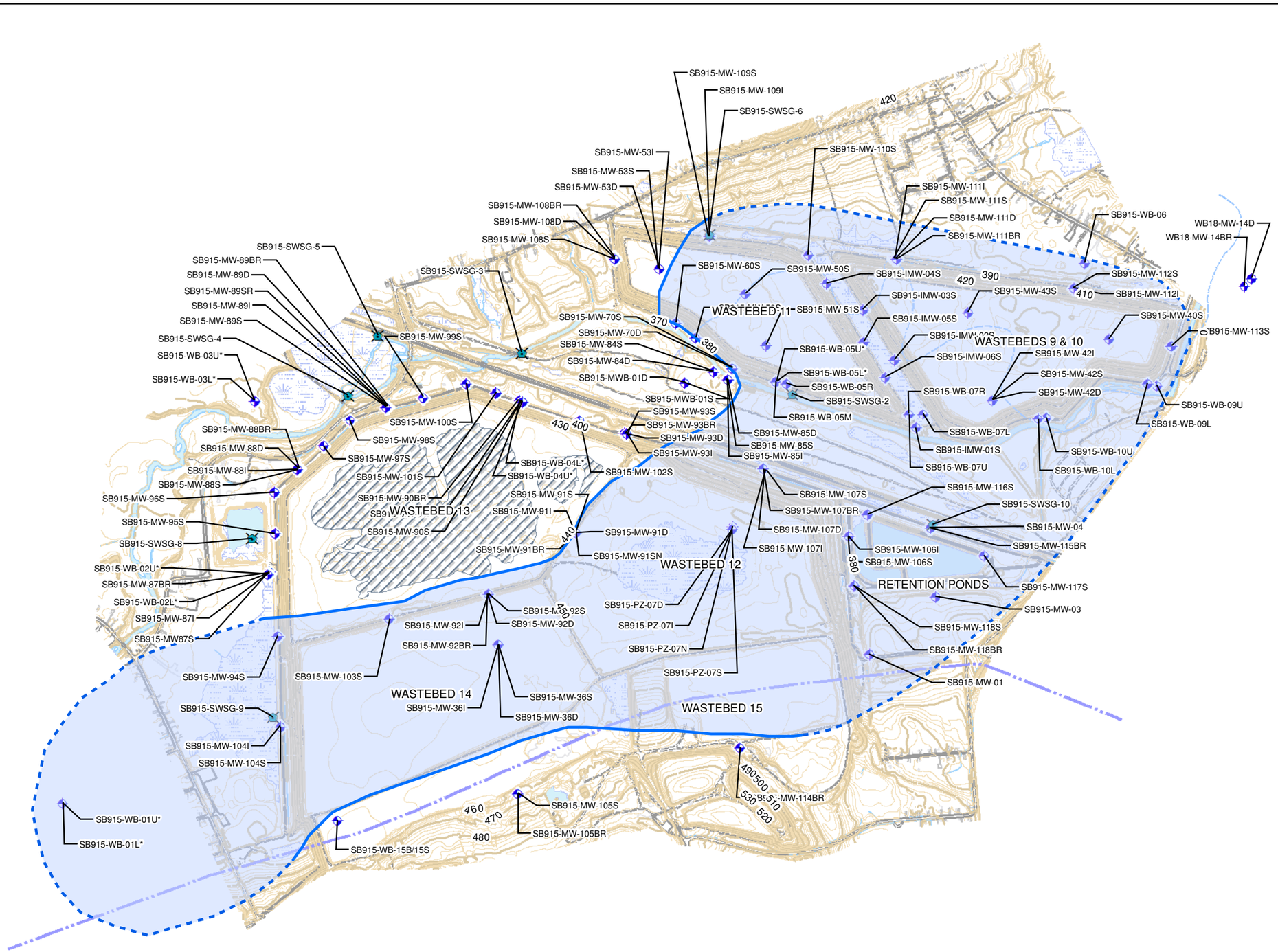
NYS Museum, NYS Geological Survey, Bedrock Attributes, version 1.0 , 7-26-1999

FIGURE 22



LEGEND

- MONITORING WELL
- SURFACE WATER
- SILT AND CLAY
- SILT AND CLAY BOUNDARY - KNOWN
- SILT AND CLAY BOUNDARY - UNKNOWN
- APPROXIMATE FORMER GRAVEL PITS

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

APPROXIMATE EXTENT OF SILT AND CLAY

0 600 1,200 2,400
Feet

MARCH 2013
1163.48127

O'BRIEN & GERE

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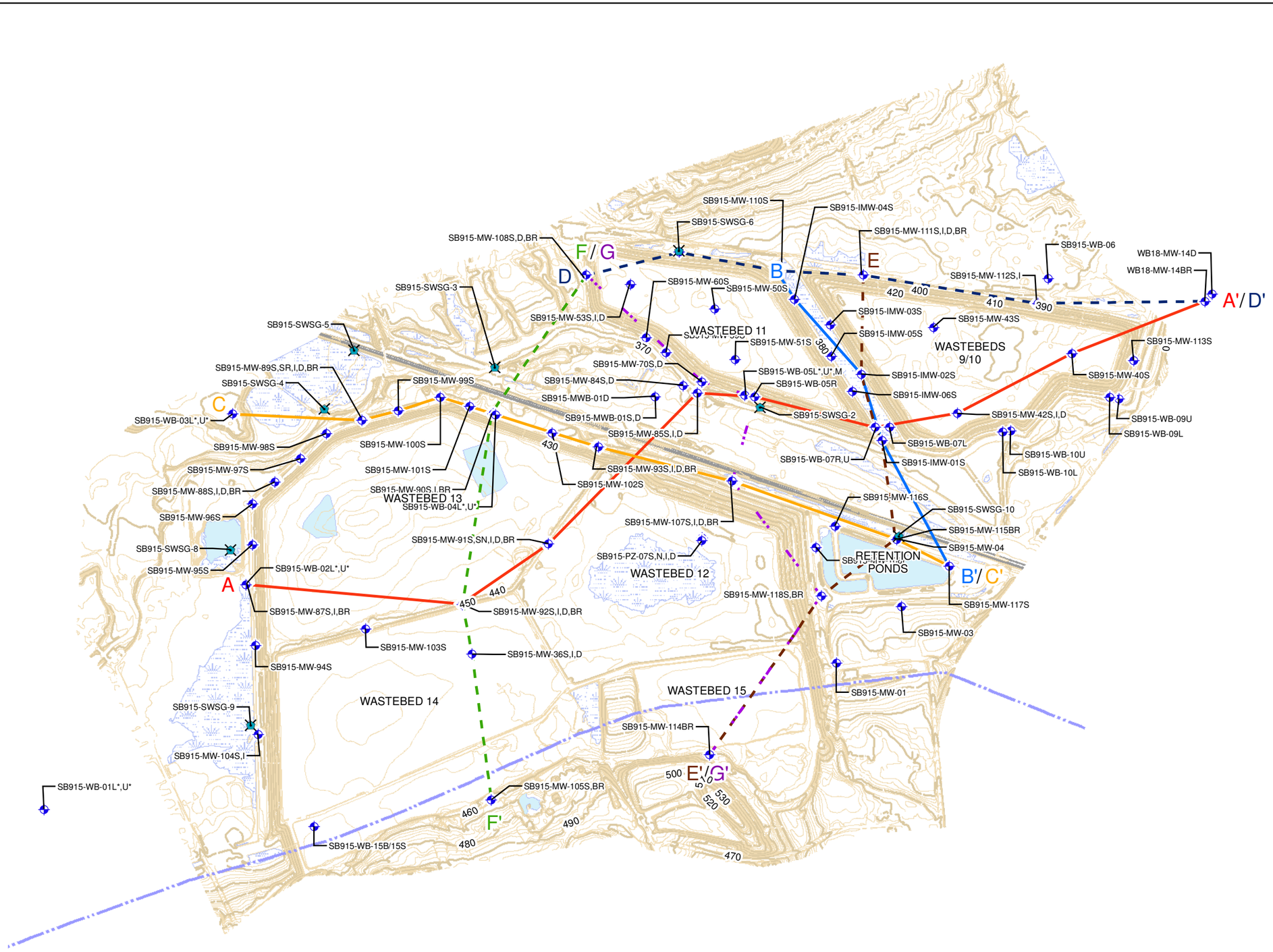
PATH: I:\Honeywell.1163\48127.Setting-Basins\Docs\DWG\MXD\9-15 GWE Locations.mxd

PLOT DATE: 09/04/13 9:19:20 AM TrentRJ

PATH: I:\Honeywell.1163\48127.Setting-Basins\Docs\DWG\MXD\Cross_section_location_figure.mxd



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PLOT DATE: 07/05/16 1:42:39 PM newtonjm

FIGURE 23

N

LEGEND

- MONITORING WELL
- SURFACE WATER STAFF GAUGE

CROSS SECTION LOCATION

- A - A'
- B - B'
- C - C'
- D - D'
- E - E'
- F - F'
- G - G'

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

GEOLOGIC CROSS-SECTIONS LOCATIONS

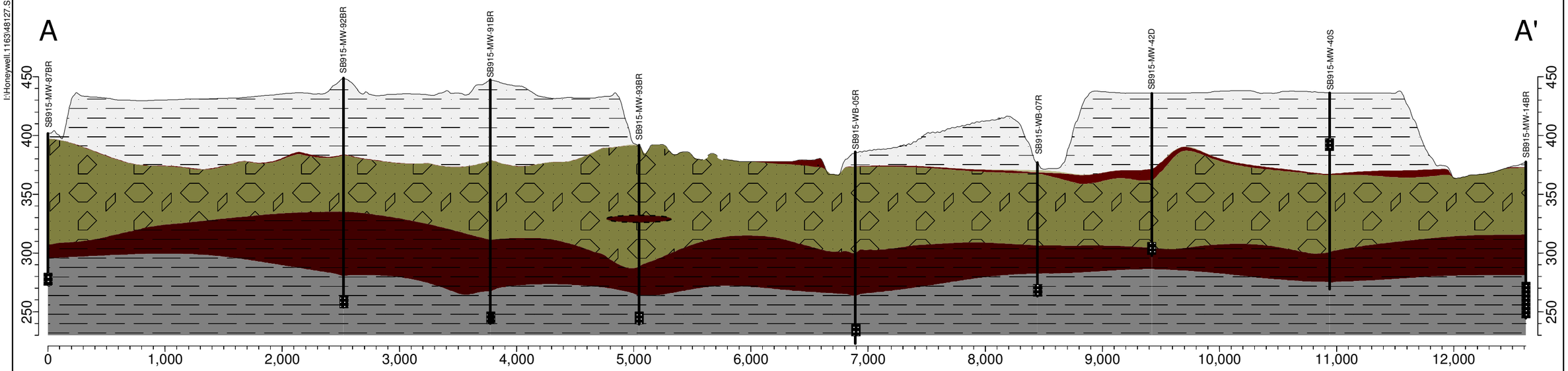
0 600 1,200 2,400
Feet

JULY 2016
1163.48127

O'BRIEN & GERE

I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\RW_XSections\RW_AA_Xsection_090313.mxd

FIGURE 24



PLOT DATE: 07/05/16 2:28:22 PM newtonjm

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LEGEND

- SOLVAY WASTE OR FILL
- MARL
- SILT AND CLAY
- MIXED NINEMILE CREEK DEPOSITS
- TILL
- BEDROCK
- SCREEN INTERVAL

VERTICAL EXAGGERATION = 10

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NOTE: GEOLOGIC CONTACT REPRESENTATION IS INTERPOLATED BETWEEN DATA POINTS.

CROSS SECTION A-A'

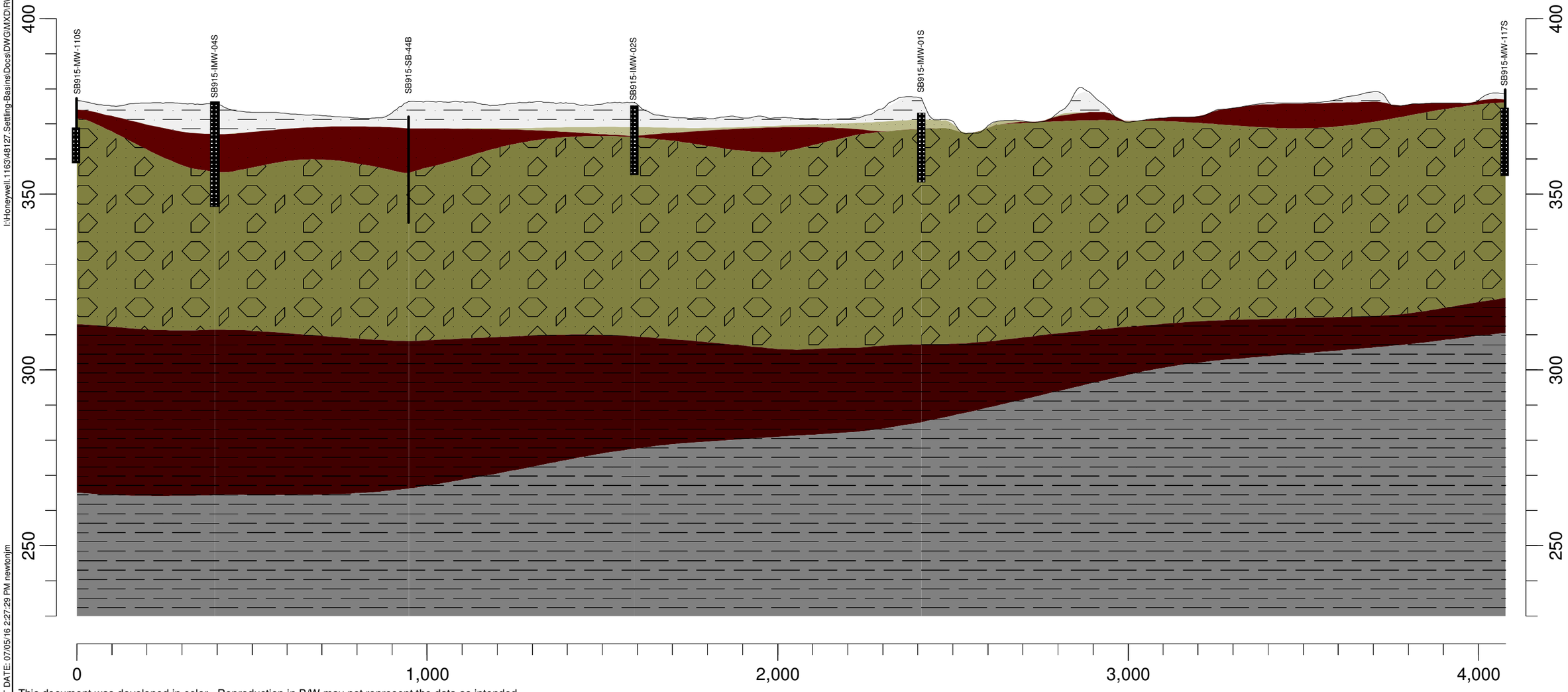
SEPTEMBER 2013
1163.48127

O'BRIEN & GERE

I:\Honeywell.1163\48127.Settling.Basins\Docs\DWG\MXD\RW_XSections\RW_BB_Xsection_090413.mxd

PLOT DATE: 07/05/16 2:27:29 PM newtonjm

FIGURE 25



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LEGEND

- SOLVAY WASTE OR FILL
- MARL
- SILT AND CLAY
- MIXED NINEMILE CREEK DEPOSITS
- TILL
- BEDROCK
- SCREEN INTERVAL

VERTICAL EXAGGERATION = 10

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NOTE: GEOLOGIC CONTACT REPRESENTATION IS INTERPOLATED BETWEEN DATA POINTS.

CROSS SECTION B-B'

JULY 2016
1163.48127

O'BRIEN & GERE

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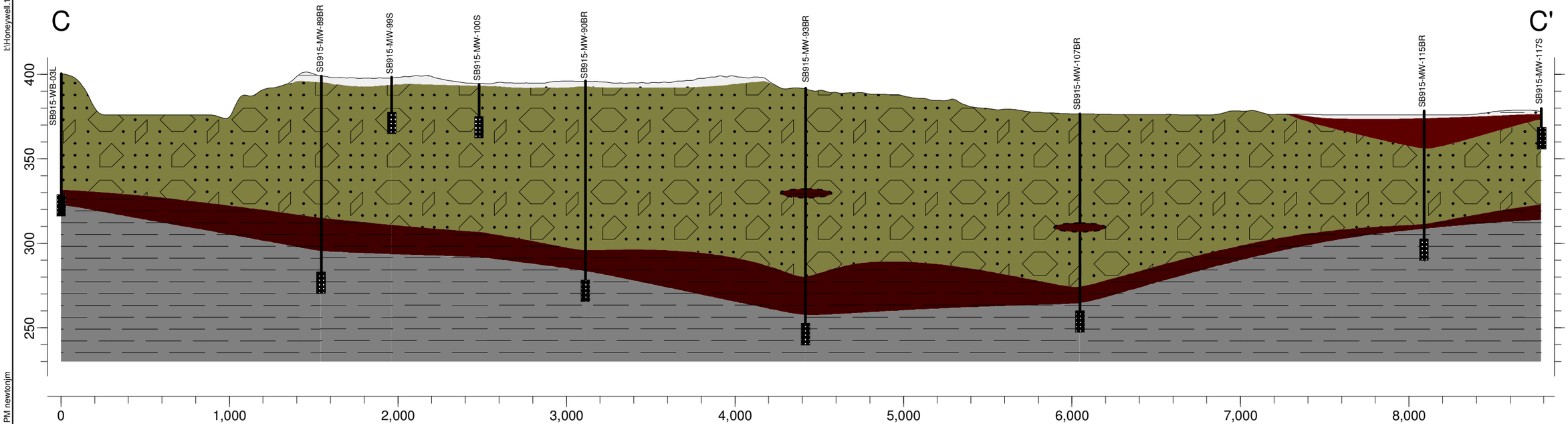
PLOT DATE: 07/05/16 2:49:12 PM newtonjm

FIGURE 26



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LEGEND

- SOLVAY WASTE OR FILL
- MARL
- SILT AND CLAY
- MIXED NINEMILE CREEK DEPOSITS
- TILL
- BEDROCK
- SCREEN INTERVAL

VERTICAL EXAGGERATION = 10

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

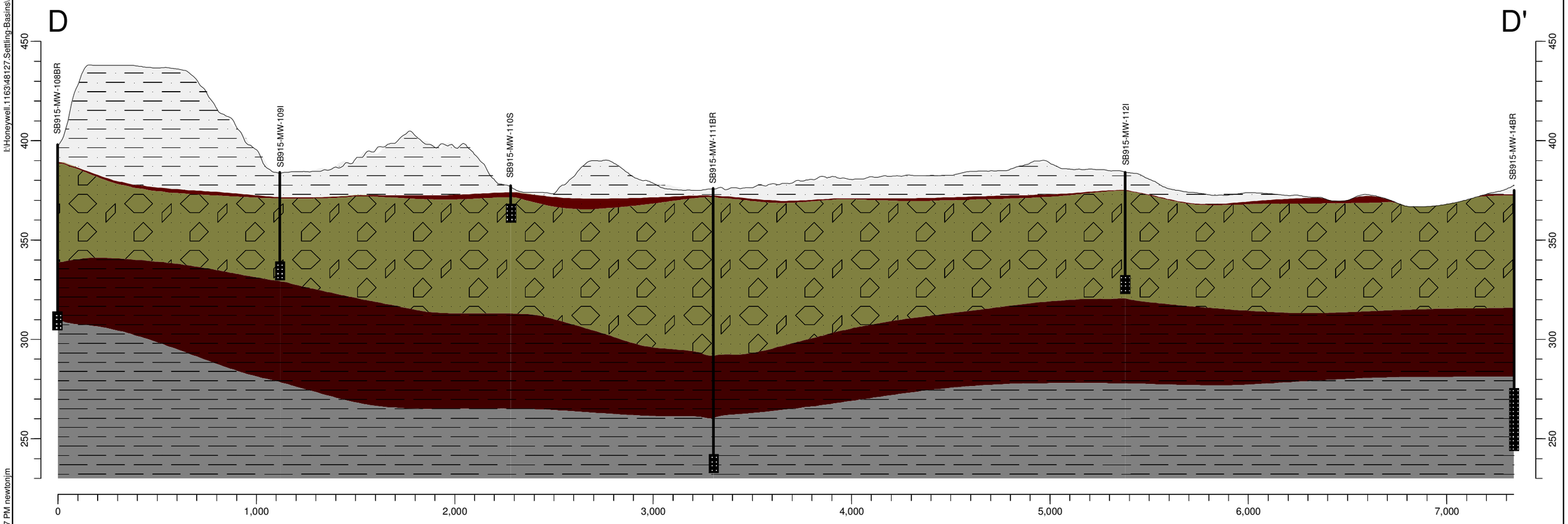
NOTE: GEOLOGIC CONTACT REPRESENTATION IS INTERPOLATED BETWEEN DATA POINTS.

CROSS SECTION C-C'

JULY 2016
1163.48127

O'BRIEN & GERE

FIGURE 27



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LEGEND

- SOLVAY WASTE OR FILL
- MARL
- SILT AND CLAY
- MIXED NINEMILE CREEK DEPOSITS
- TILL
- BEDROCK
- SCREEN INTERVAL

VERTICAL EXAGGERATION = 10

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NOTE: GEOLOGIC CONTACT REPRESENTATION IS INTERPOLATED BETWEEN DATA POINTS.

CROSS SECTION D-D'

JULY 2016
1163.48127

O'BRIEN & GERE

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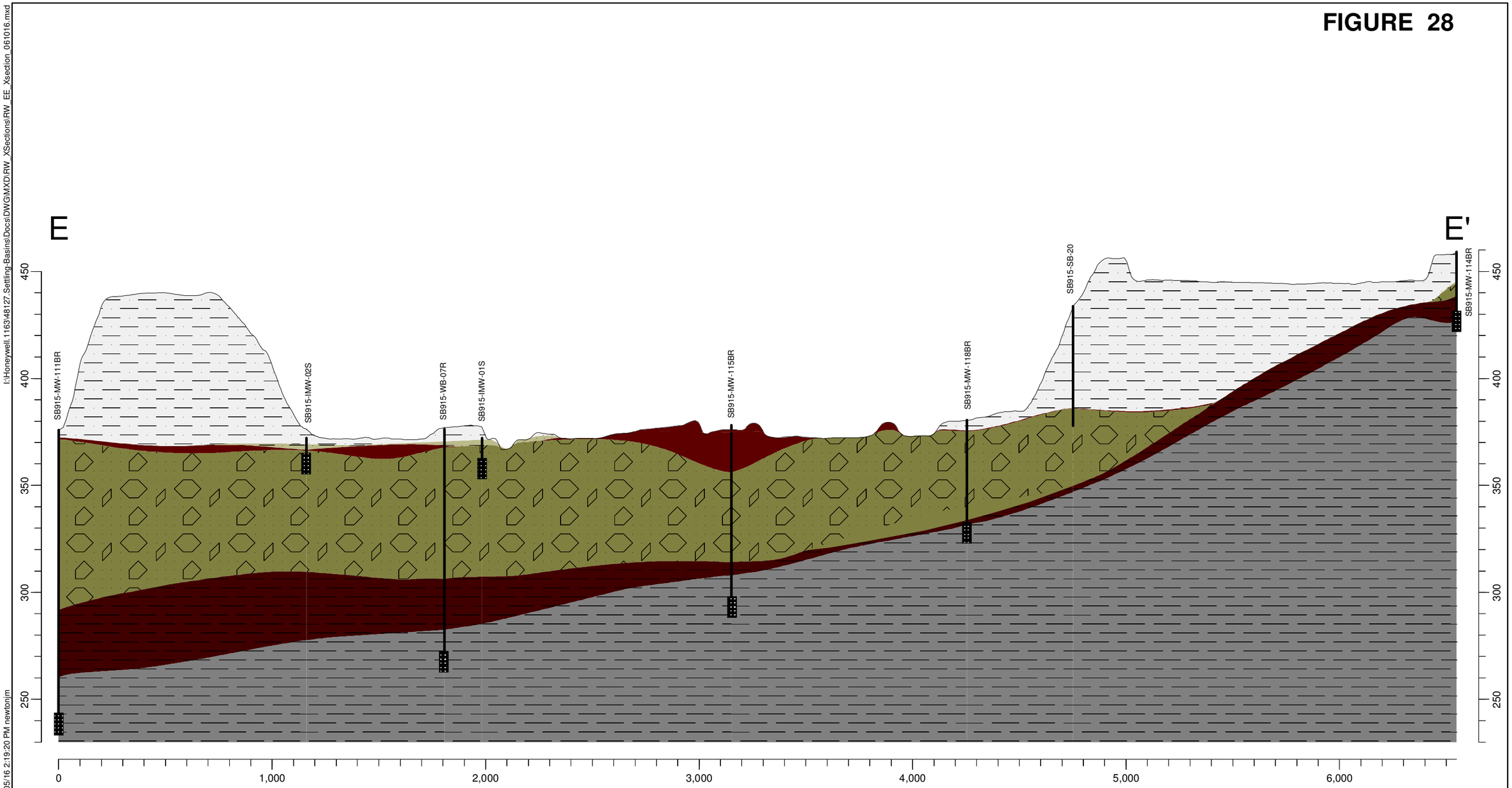
PLOT DATE: 07/05/16 2:20:37 PM newtonjm

FIGURE 28



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PLOT DATE: 07/05/16 2:19:20 PM newtonjm

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LEGEND

- SOLVAY WASTE OR FILL
- MARL
- SILT AND CLAY
- MIXED NINEMILE CREEK DEPOSITS
- TILL
- BEDROCK
- SCREEN INTERVAL

VERTICAL EXAGGERATION = 10

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NOTE: GEOLOGIC CONTACT REPRESENTATION IS INTERPOLATED BETWEEN DATA POINTS.

CROSS SECTION E-E'

JULY 2016
1163.48127

O'BRIEN & GERE

I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\RW_XSections\RW_FF_Xsection_070516.mxd

FIGURE 29

F

F'

SB915-MW-108BR

SB915-MW-90BR

SB915-MW-92BR

SB915-MW-36D

SB915-MW-105BR

FORMER GRAVEL MINE

450

400

350

300

250

0

1,000

2,000

3,000

4,000

5,000

6,000

PLOT DATE: 11/08/17 9:41:36 AM millermr

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LEGEND

- SOLVAY WASTE OR FILL
- MARL
- SILT AND CLAY
- MIXED NINEMILE CREEK DEPOSITS
- TILL
- BEDROCK
- SCREEN INTERVAL

VERTICAL EXAGGERATION = 10

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NOTE: GEOLOGIC CONTACT REPRESENTATION IS INTERPOLATED BETWEEN DATA POINTS.

CROSS SECTION F-F'

JULY 2016
1163.48127

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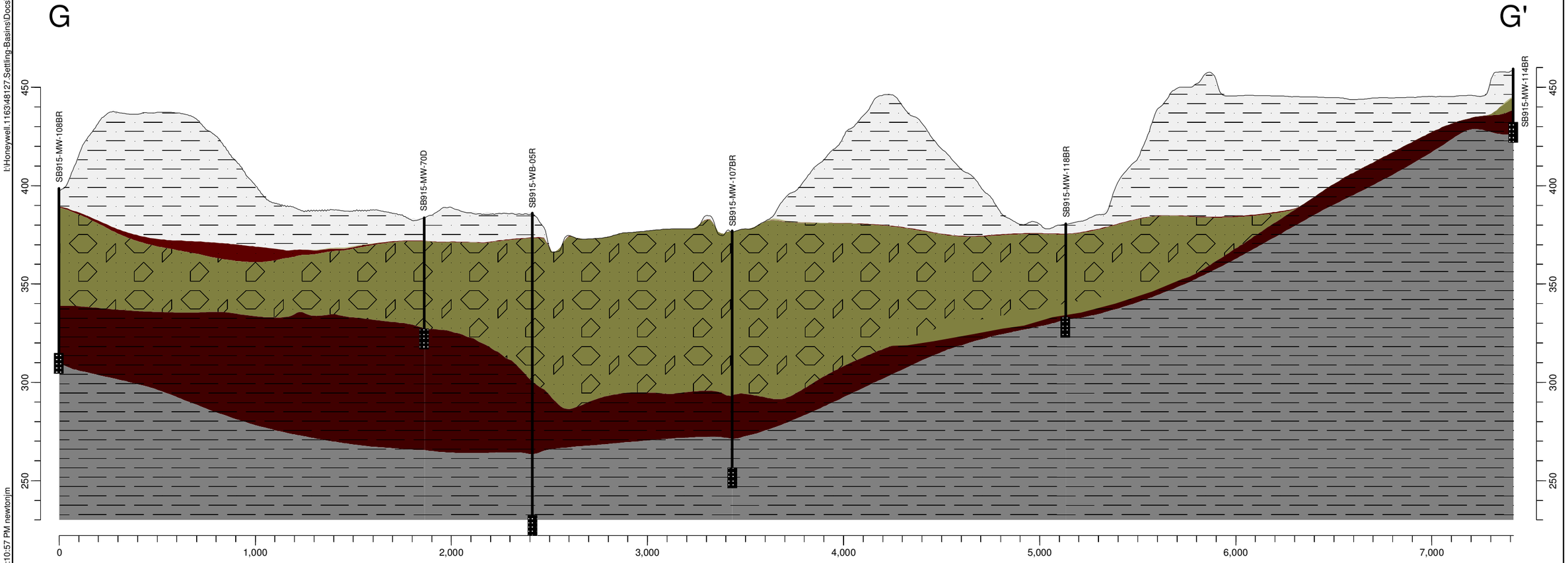
PLOT DATE: 07/05/16 2:10:57 PM newtonjm

FIGURE 30



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LEGEND

- SOLVAY WASTE OR FILL
- MARL
- SILT AND CLAY
- MIXED NINEMILE CREEK DEPOSITS
- TILL
- BEDROCK
- SCREEN INTERVAL

VERTICAL EXAGGERATION = 10

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

NOTE: GEOLOGIC CONTACT REPRESENTATION IS INTERPOLATED BETWEEN DATA POINTS.

CROSS SECTION G-G'

JULY 2016
1163.48127

O'BRIEN & GERE

I:\Honeywell.1163.48127.Settling-Basins\Docs\DWG\MXD\SB915 Top of Till_Surface.mxd

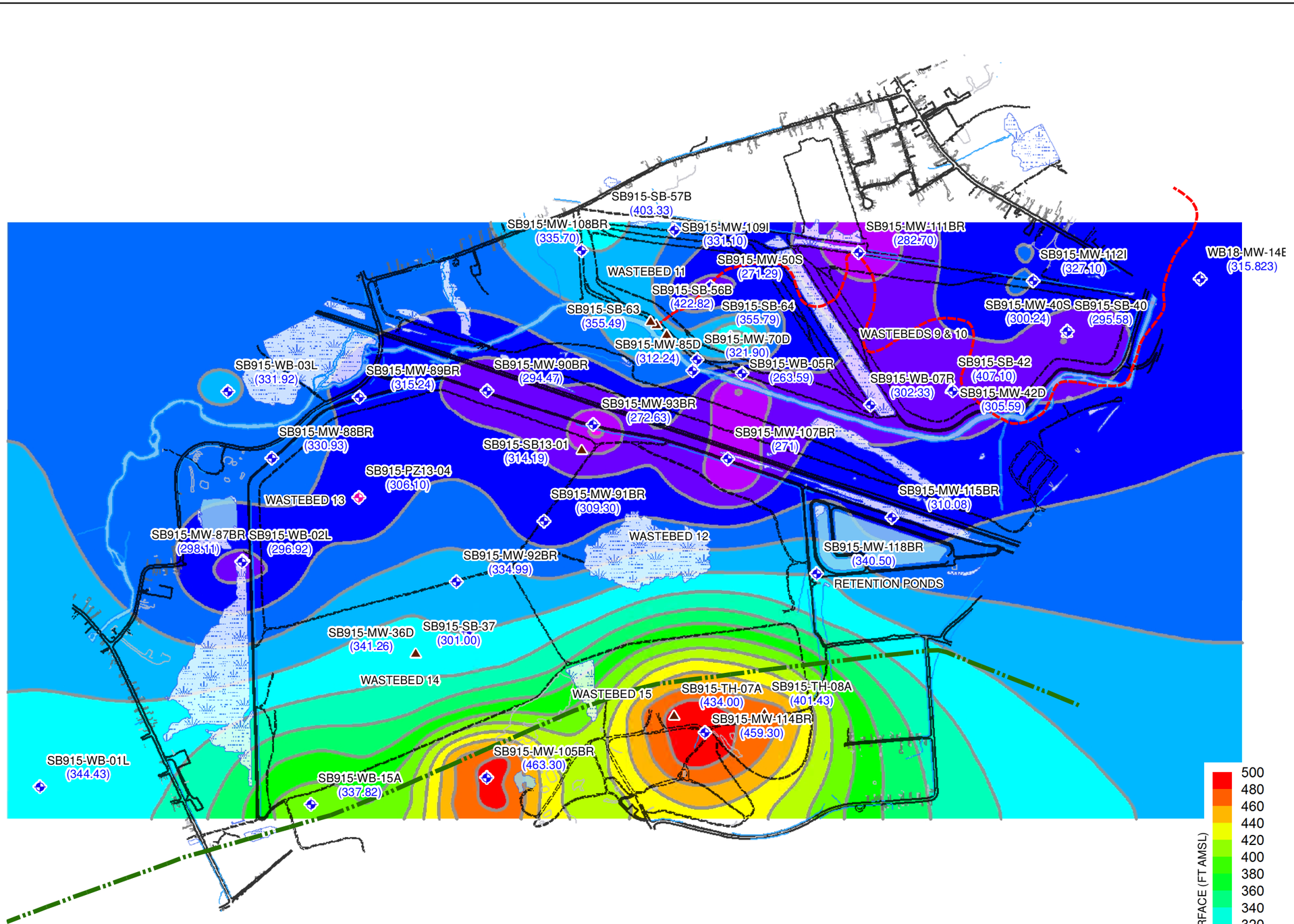

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FIGURE 31

N

LEGEND

- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL
- MONITORING WELL
- PIEZOMETER
- SOIL BORING

SB915-MW-87BR - *LOCATION ID*
298.112 - *TOP OF TILL SURFACE ELEVATION (FTAMSL)*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

TOP OF TILL SURFACE ELEVATION

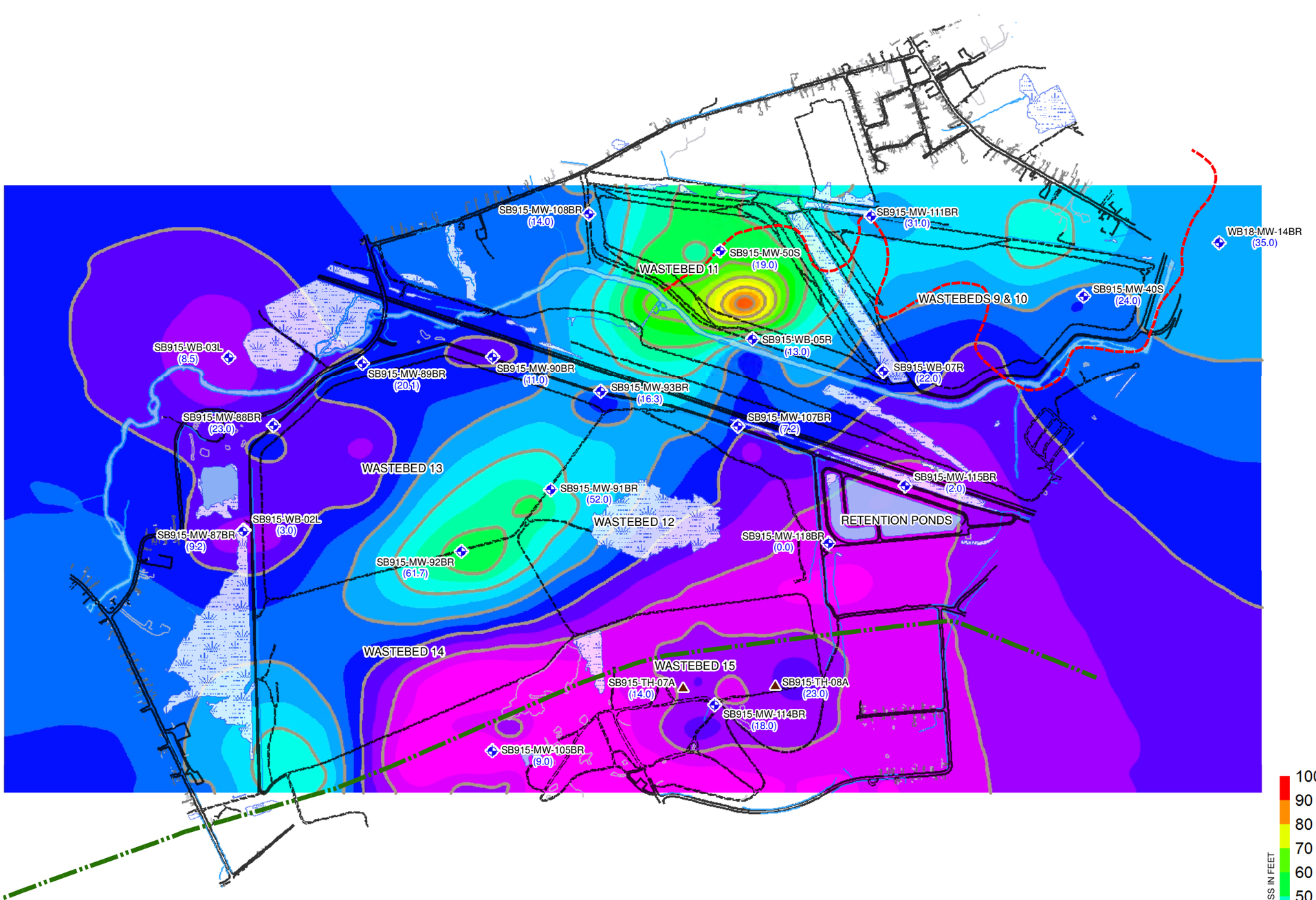
0 600 1,200 2,400
Feet

AUGUST 2013
1163.48127

O'BRIEN & GERE

I:\Honeywell.1163.48127.Settling-Basins\Docs\DWG\MXD\SB915Till_Thick.mxd

FIGURE 32



LEGEND

- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL
- MONITORING WELL
- SOIL BORING

SB915-MW-40S - *LOCATION ID*
24.0 - *TOP OF TILL THICKNESS (FT)*

THICKNESS IN FEET
100
90
80
70
60
50
40
30
20
10
0

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

TILL THICKNESS

0 600 1,200 2,400
Feet

AUGUST 2013
1163.48127

O'BRIEN & GERE

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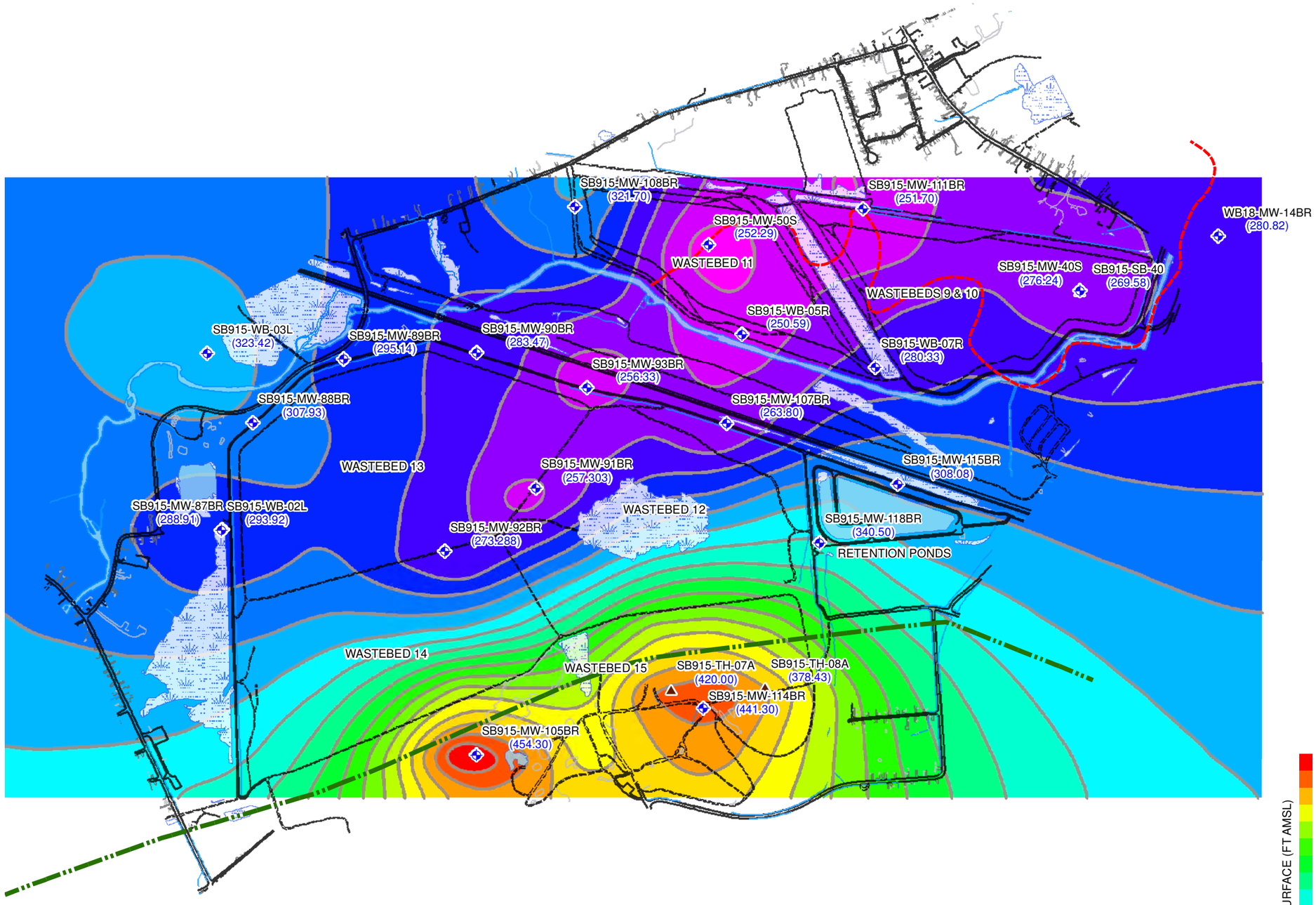
I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\SB915 Top of Bedrock_Elev.mxd

FIGURE 33



LEGEND

- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL
- MONITORING WELL
- SOIL BORING

SB915-MW-87BR - *LOCATION ID*
288.91 - *TOP OF BEDROCK ELEVATION (FTAMSL)*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

TOP OF BEDROCK ELEVATION

0 600 1,200 2,400
Feet

AUGUST 2013
1163.48127

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PLOTDATE: 09/15/16 3:13:53 PM millermr

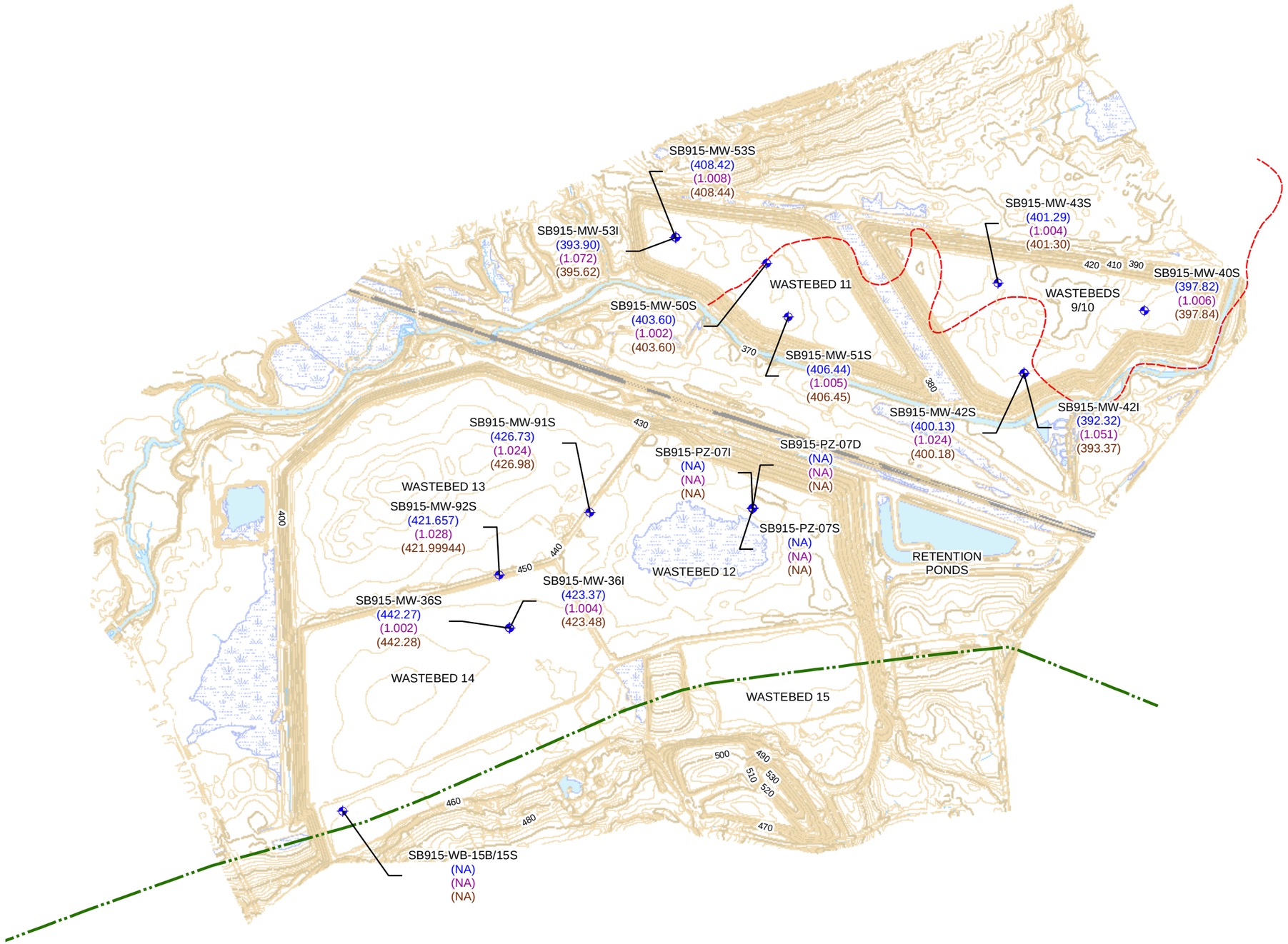

FIGURE 34

N

LEGEND

- MONITORING WELL
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE: GROUNDWATER CONTOURS WERE NOT GENERATED FOR THE SOLVAY WASTE/SHALLOW FILL LOCATIONS DUE TO ISOLATED AND LIMITED DATA.

SB915-MW-42S - *LOCATION ID*
397.36 - *GROUNDWATER ELEVATION (FTAMSL)*
1.022 - *SPECIFIC GRAVITY*
397.38 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

SOLVAY WASTE/ SHALLOW FILL GROUNDWATER ELEVATIONS APRIL 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

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PLOTDATE: 09/20/16 7:57:10 AM millemr

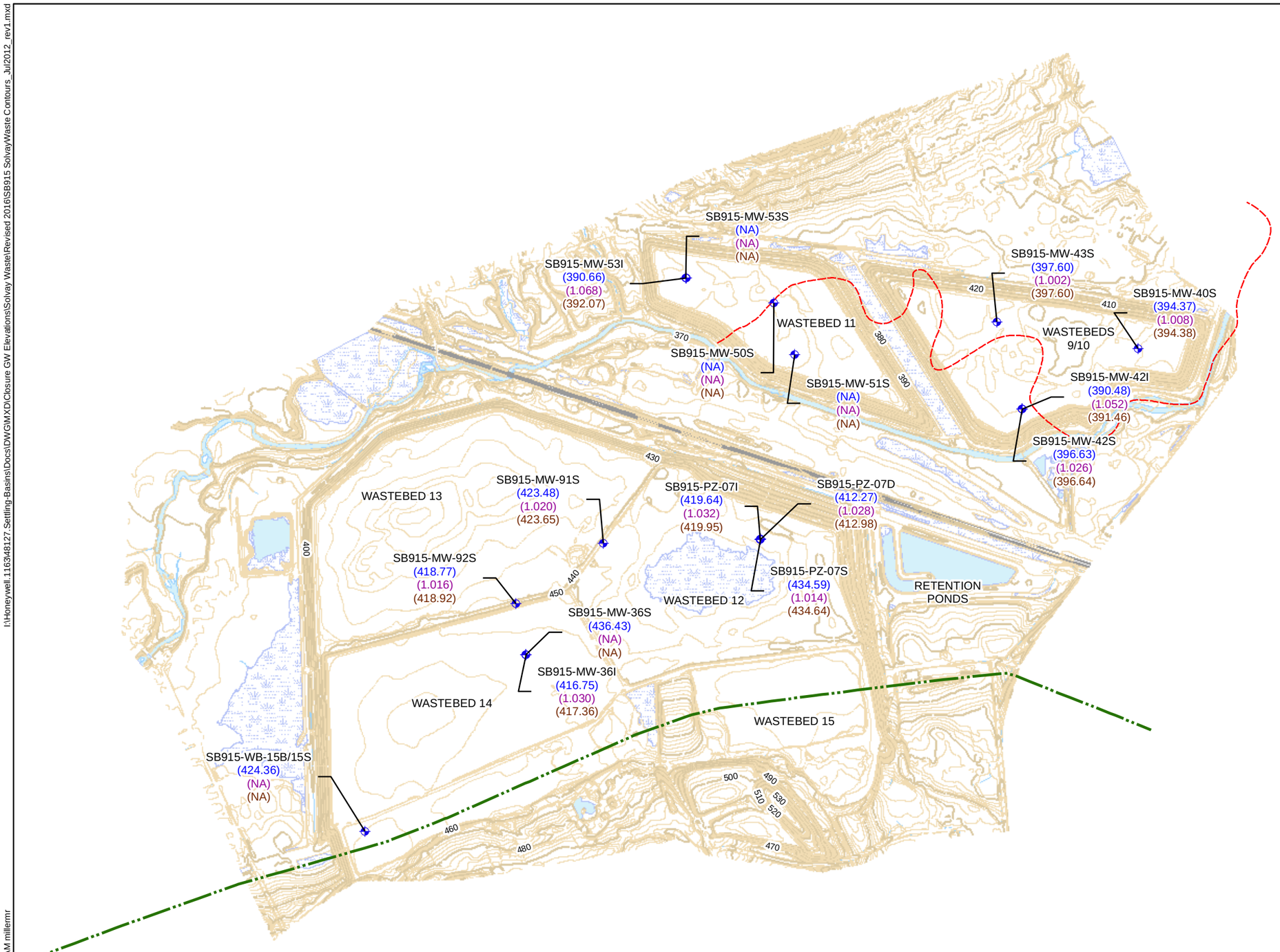

FIGURE 35

N

LEGEND

- MONITORING WELL
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE: GROUNDWATER CONTOURS WERE NOT GENERATED FOR THE SOLVAY WASTE/SHALLOW FILL LOCATIONS DUE TO ISOLATED AND LIMITED DATA.

SB915-MW-42S - *LOCATION ID*
397.36 - *GROUNDWATER ELEVATION (FTAMSL)*
1.022 - *SPECIFIC GRAVITY*
397.38 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

SOLVAY WASTE/ SHALLOW FILL GROUNDWATER ELEVATIONS JULY 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

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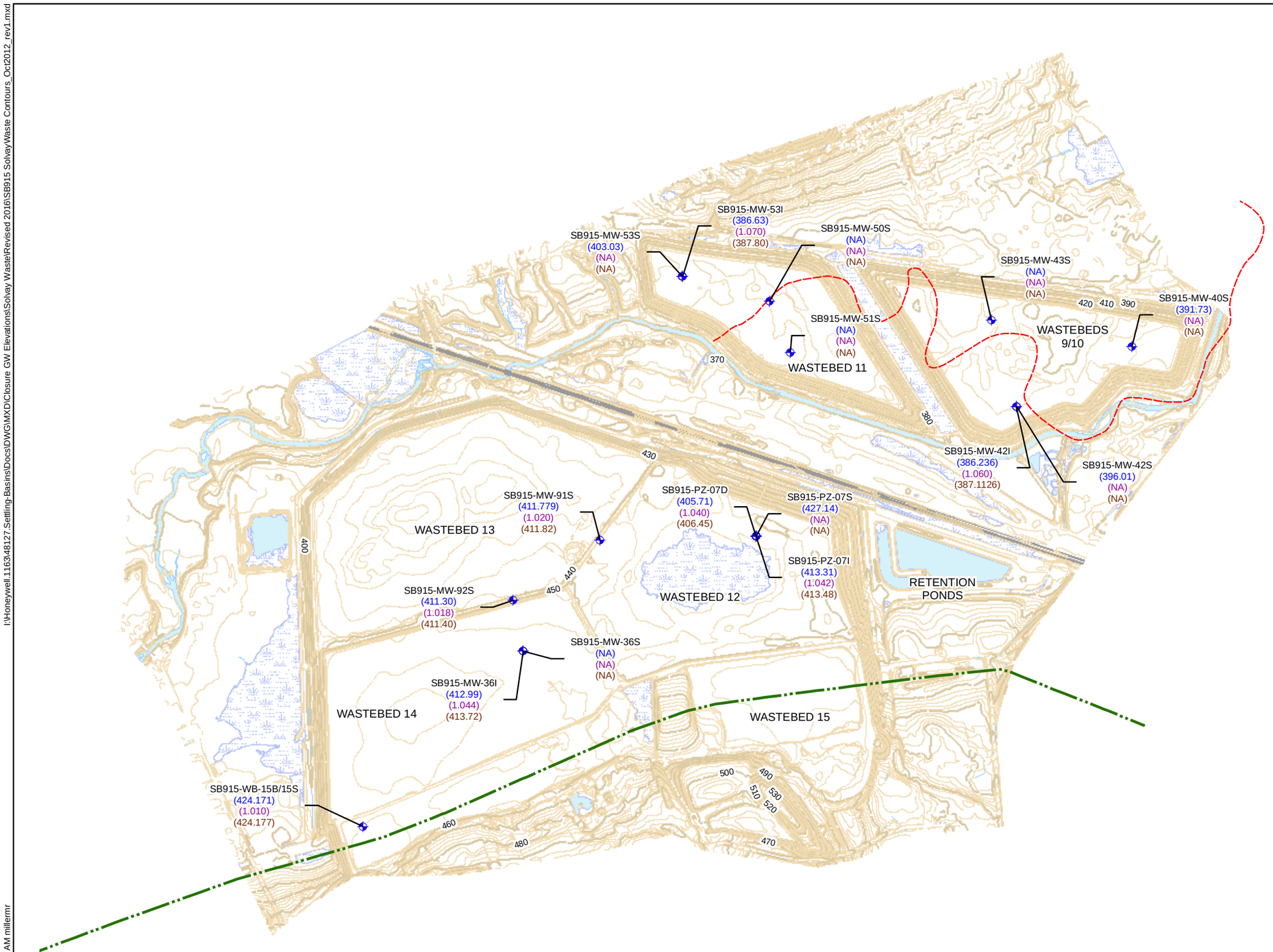
PLOTDATE: 09/20/16 8:04:46 AM millermr



This document was developed in color. Reproduction in B/W may not represent the data as intended.

FIGURE 36

N

LEGEND

- MONITORING WELL
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE: GROUNDWATER CONTOURS WERE NOT GENERATED FOR THE SOLVAY WASTE/SHALLOW FILL LOCATIONS DUE TO ISOLATED AND LIMITED DATA.

SB915-MW-42S - *LOCATION ID*
397.36 - *GROUNDWATER ELEVATION (FTAMSL)*
1.022 - *SPECIFIC GRAVITY*
397.38 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

SOLVAY WASTE/ SHALLOW FILL GROUNDWATER ELEVATIONS OCTOBER 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

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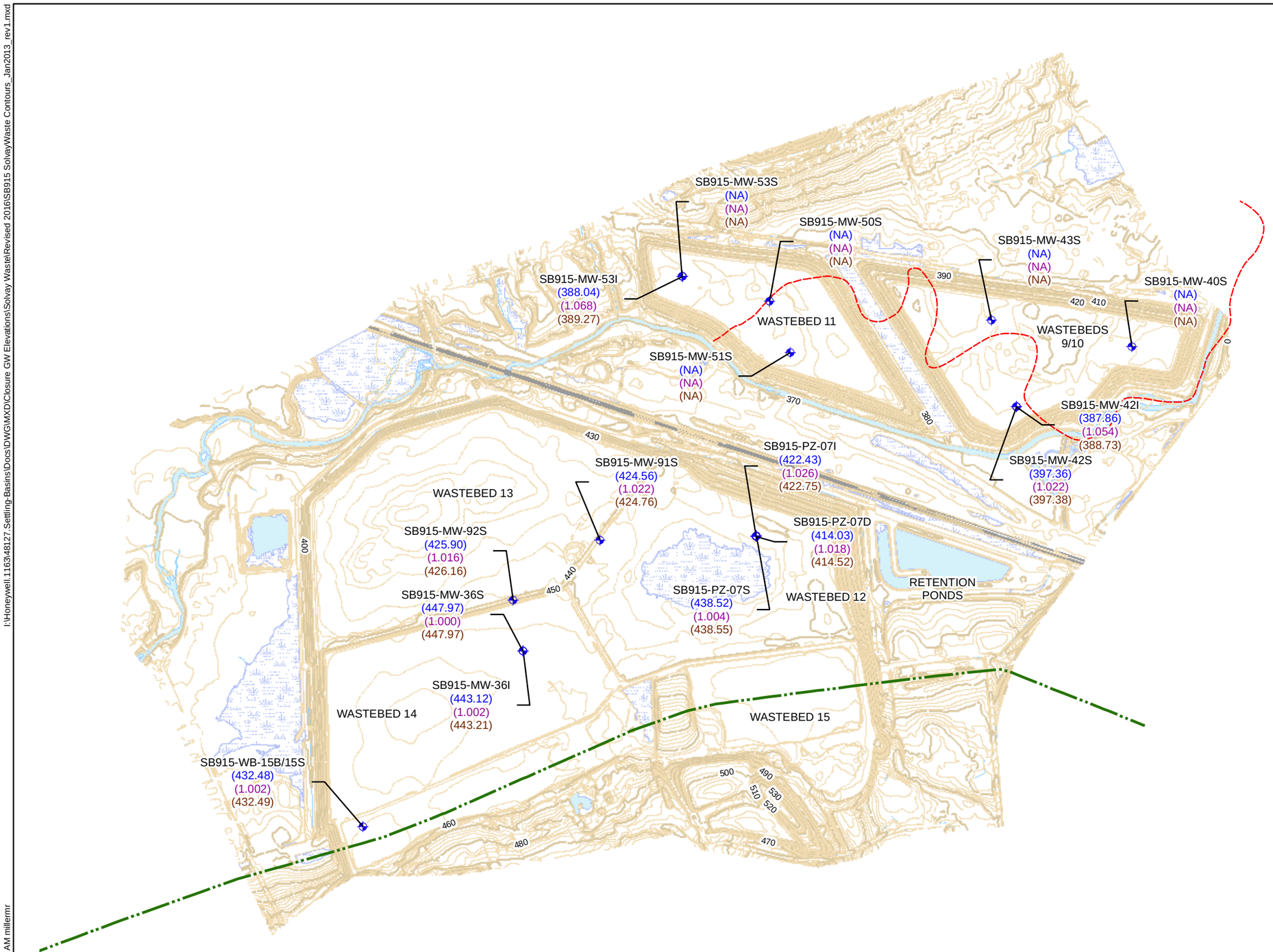
PLOTDATE: 09/20/16 8:09:52 AM millemr



This document was developed in color. Reproduction in B/W may not represent the data as intended.

FIGURE 37

N

LEGEND

- MONITORING WELL
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE: GROUNDWATER CONTOURS WERE NOT GENERATED FOR THE SOLVAY WASTE/SHALLOW FILL LOCATIONS DUE TO ISOLATED AND LIMITED DATA.

SB915-MW-42S - *LOCATION ID*
397.36 - *GROUNDWATER ELEVATION (FTAMSL)*
1.022 - *SPECIFIC GRAVITY*
397.38 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

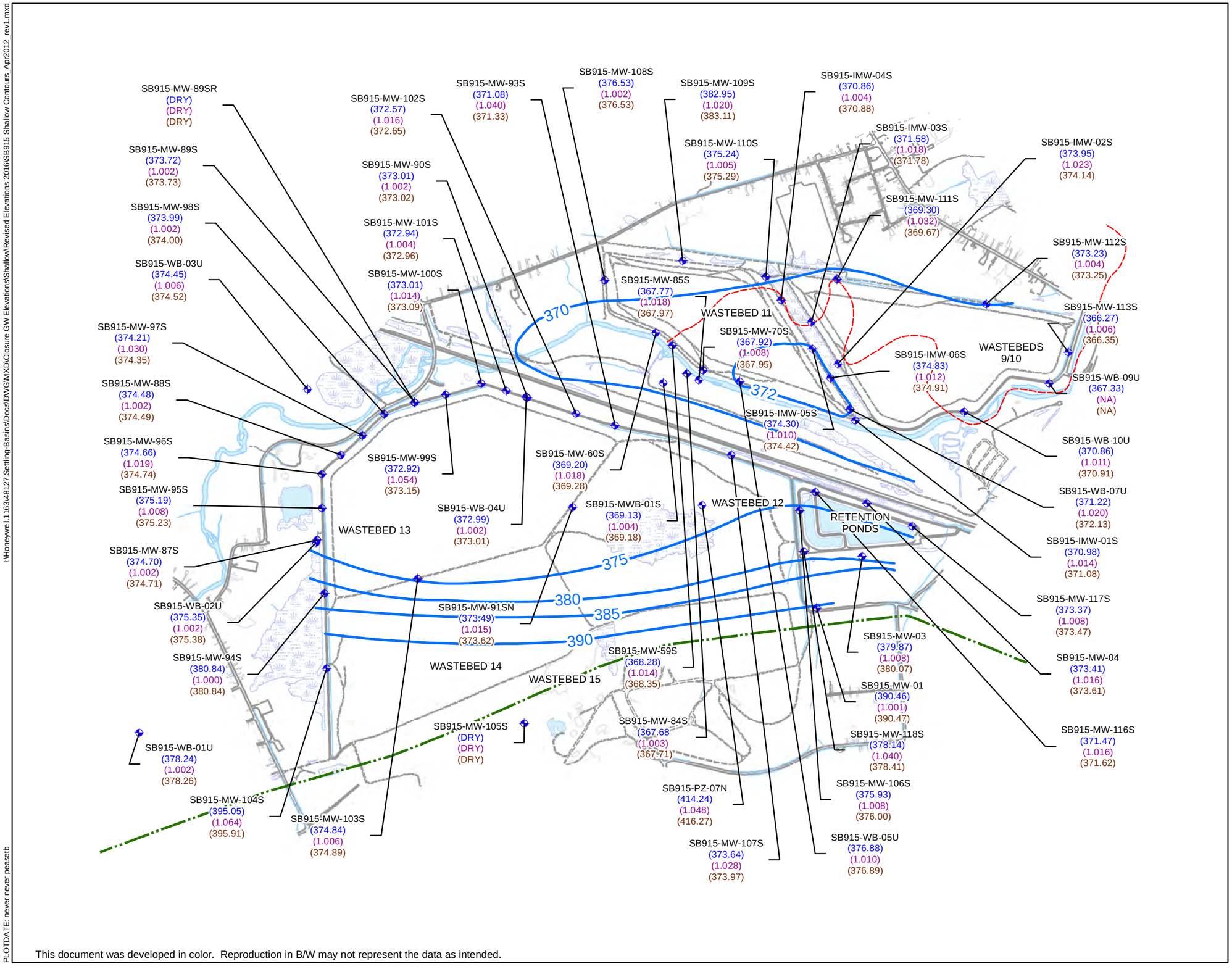
SOLVAY WASTE/ SHALLOW FILL GROUNDWATER ELEVATIONS JANUARY 2013

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

FIGURE 38



LEGEND

- GROUNDWATER CONTOUR EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

SHALLOW NATIVE GROUNDWATER ELEVATION CONTOURS APRIL 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

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PLOTDATE: never never peasetb

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FIGURE 39

SB915-MW-60S (369.21) (1.010) (369.26)
SB915-MW-99S (372.18) (1.002) (372.19)
SB915-MW-100S (372.29) (1.004) (372.31)
SB915-MW-89S (372.93) (1.000) (372.93)
SB915-MW-101S (372.25) (1.012) (372.31)
SB915-MW-109S (382.30) (1.016) (382.42)
SB915-MW-110S (374.28) (1.010) (374.38)
SB915-MW-111S (369.07) (1.032) (369.44)
SB915-MW-98S (373.13) (1.002) (373.13)
SB915-IMW-04S (370.11) (1.008) (370.15)
SB915-IMW-02S (373.46) (1.024) (373.65)
SB915-IMW-06S (374.07) (1.012) (374.14)
SB915-WB-04U (372.27) (1.004) (372.32)
SB915-MW-108S (375.22) (1.010) (375.23)
SB915-WB-07U (369.55) (1.014) (370.16)
SB915-MW-97S (373.39) (1.000) (373.39)
SB915-MW-112S (371.70) (1.008) (371.73)
SB915-WB-03U (373.49) (1.002) (373.51)
WASTEBED 11
SB915-MW-59S (368.53) (1.010) (368.58)
SB915-MW-113S (365.75) (1.018) (365.99)
SB915-MW-88S (373.60) (1.000) (373.60)
372
368
SB915-MW-70S (368.03) (1.010) (368.07)
SB915-IMW-03S (370.90) (1.036) (371.27)
SB915-MW-96S (373.72) (1.002) (373.72)
370
372
WASTEBEDS 9/10
SB915-WB-09U (365.70) (NA) (NA)
SB915-MW-90S (372.31) (1.004) (372.32)
SB915-IMW-01S (370.42) (1.012) (370.50)
SB915-MW-95S (374.13) (1.000) (374.13)
SB915-IMW-05S (373.70) (1.012) (373.84)
SB915-MW-89SR (NA) (NA) (NA)
SB915-MW-102S (371.96) (1.004) (371.98)
SB915-WB-10U (370.23) (1.018) (370.31)
WASTEBED 13
SB915-MW-93S (370.72) (1.004) (370.74)
SB915-MW-116S (369.96) (1.008) (370.02)
SB915-MW-87S (373.61) (1.002) (373.62)
SB915-MW-91SN (372.73) (1.032) (372.99)
RETENTION PONDS
374
WASTEBED 12
SB915-WB-02U (374.24) (1.004) (374.29)
SB915-MW-117S (372.80) (1.004) (372.85)
SB915-MW-103S (373.80) (1.006) (373.84)
376
WASTEBED 14
SB915-MW-94S (380.81) (1.002) (380.82)
SB915-MW-04 (371.56) (1.018) (371.75)
WASTEBED 15
SB915-MWB-01S (369.12) (1.006) (369.19)
SB915-MW-104S (394.49) (1.004) (394.54)
SB915-MW-03 (378.47) (1.006) (378.61)
SB915-MW-105S (NA) (NA) (NA)
SB915-PZ-07N (412.22) (1.052) (414.31) NC
SB915-MW-106S (375.01) (1.006) (375.06)
SB915-MW-01 (NA) (NA) (NA)
SB915-WB-01U (376.85) (1.000) (376.85)
SB915-MW-84S (367.85) (1.004) (367.88)
SB915-MW-118S (376.27) (1.028) (376.41)
SB915-WB-05U (375.62) (1.012) (375.63)
SB915-MW-85S (367.89) (1.006) (367.96)
SB915-MW-107S (373.89) (1.028) (374.22)

LEGEND

- GROUNDWATER ELEVATION EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

SHALLOW NATIVE GROUNDWATER ELEVATION CONTOURS JULY 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

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FIGURE 40

N

LEGEND

- GROUNDWATER ELEVATIONS EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

SHALLOW NATIVE GROUNDWATER ELEVATION CONTOURS OCTOBER 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
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SB915-MW-89S (372.35) (1.004) (372.36)
SB915-SWSG-05 (369.71)
SB915-MW-100S (371.76) (1.006) (371.79)
SB915-SWSG-06 (382.61)
SB915-MW-109S (381.57) (1.034) (381.79)
SB915-MW-70S (367.76) (1.010) (367.80)
SB915-MW-110S (374.53) (1.010) (374.63)
SB915-IMW-04S (369.59) (1.010) (369.63)
SB915-MW-111S (368.67) (1.034) (369.05)
SB915-IMW-05S (373.81) (1.010) (373.93)
SB915-IMW-02S (372.99) (1.030) (373.21)
SB915-MW-89SR (NA) (NA) (NA)
SB915-MW-99S (371.62) (1.002) (371.63)
SB915-MW-60S (368.70) (1.006) (368.72)
SB915-IMW-03S (370.63) (1.040) (371.03)
SB915-IMW-06S (374.01) (1.012) (374.08)
SB915-SWSG-04 (NA)
SB915-MW-98S (372.56) (1.002) (372.56)
SB915-MW-108S (373.41) (0.000) (0.00)
SB915-MW-112S (370.29) (1.010) (370.32)
SB915-MW-97S (372.78) (1.000) (372.78)
SB915-MW-59S (368.09) (1.014) (368.16)
SB915-WB-07U (369.33) (1.010) (369.77)
375
WASTEBED 11
370
SB915-WB-03U (373.32) (1.006) (373.39)
SB915-SWSG-03 (368.66)
SB915-WB-05U (373.60) (NA) (NA)
SB915-MW-113S (365.78) (1.010) (365.92)
SB915-MW-84S (367.56) (1.006) (367.61)
372
WASTEBEDS 9/10
SB915-MW-88S (373.03) (1.002) (373.04)
SB915-SWSG-02 (366.15)
SB915-WB-09U (364.68) (1.020) (364.78)
SB915-WB-10U (367.78) (1.022) (367.85)
SB915-MW-96S (374.11) (1.002) (374.11)
SB915-MW-101S (371.70) (1.004) (371.72)
SB915-MW-85S (367.67) (1.011) (367.79)
SB915-IMW-01S (370.85) (1.014) (370.95)
SB915-MW-116S (372.42) (1.012) (372.54)
WASTEBED 13
SB915-SWSG-08 (374.69)
SB915-MW-95S (373.49) (1.002) (373.50)
SB915-MW-90S (371.79) (1.004) (371.80)
SB915-SWSG-10 (371.79)
RETENTION PONDS
375
SB915-MW-87S (372.99) (1.002) (373.00)
SB915-WB-04U (371.75) (1.006) (371.80)
SB915-MW-04 (369.84) (1.020) (370.02)
WASTEBED 12
SB915-WB-02U (373.65) (1.004) (373.69)
SB915-MW-117S (373.43) (1.022) (373.71)
WASTEBED 14
380
385
390
SB915-SWSG-09 (399.19)
SB915-MW-94S (380.60) (1.000) (380.60)
WASTEBED 15
SB915-MW-03 (377.70) (1.010) (377.92)
SB915-MWB-01S (368.73) (1.008) (368.82)
SB915-MW-104S (390.77) (1.064) (391.36)
SB915-MW-103S (373.14) (1.000) (373.14)
SB915-MW-107S (375.43) (1.030) (375.83)
SB915-MW-106S (378.23) (1.002) (378.25)
SB915-WB-01U (375.62) (1.006) (375.67)
SB915-MW-105S (449.77) (NA) (NA)
SB915-MW-93S (370.20) (1.000) (370.20)
SB915-PZ-07N (404.91) (1.054) (406.69) NC
SB915-MW-118S (379.13) (1.000) (379.13)
SB915-MW-91SN (372.22) (1.020) (372.37)
SB915-MW-102S (371.44) (1.002) (371.44)
SB915-MW-01 (392.61) (1.000) (392.61)

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SB915-SWSG-05 (369.71)
SB915-MW-100S (372.81) (1.010) (372.86)
SB915-WB-04U (372.76) (1.000) (372.76)
SB915-MW-109S (382.81) (1.018) (382.95)
SB915-SWSG-06 (382.61)
SB915-MW-111S (369.05) (1.028) (369.37)
SB915-IMW-03S (370.33) (1.034) (370.66)
SB915-MW-89SR (NA) (NA) (NA)
SB915-MW-99S (372.73) (1.002) (372.74)
SB915-MW-108S (374.22) (1.010) (374.23)
SB915-MW-110S (374.62) (1.000) (374.62)
SB915-IMW-05S (372.77) (1.012) (372.90)
SB915-MW-89S (373.51) (1.002) (373.52)
SB915-MW-90S (372.83) (1.004) (372.85)
SB915-IMW-04S (369.90) (1.002) (369.91)
SB915-IMW-02S (372.43) (1.022) (372.58)
SB915-SWSG-04 (NA)
SB915-MW-112S (370.95) (1.006) (370.97)
SB915-MW-98S (373.75) (1.002) (373.75)
SB915-MW-60S (369.04) (1.006) (369.07)
370
SB915-MW-113S (366.52) (1.006) (366.61)
SB915-WB-03U (374.23) (1.000) (374.23)
SB915-MW-70S (367.90) (1.014) (367.96)
SB915-SWSG-03 (368.65)
SB915-MW-59S (368.31) (1.012) (368.37)
WASTEBEDS 9/10
SB915-WB-09U (366.40) (1.000) (366.40)
SB915-MW-97S (373.98) (1.012) (374.04)
WASTEBED 11
SB915-IMW-06S (374.00) (1.020) (374.12)
SB915-WB-10U (367.37) (1.014) (367.41)
SB915-MW-88S (374.23) (1.002) (374.24)
WASTEBED 13
SB915-MW-101S (372.76) (1.004) (372.78)
SB915-IMW-01S (369.95) (1.012) (370.03)
SB915-SWSG-02 (366.15)
SB915-WB-07U (369.76) (1.012) (370.29)
SB915-MW-102S (372.42) (1.002) (372.42)
SB915-MW-93S (370.94) (1.002) (370.95)
SB915-SWSG-10 (371.79)
SB915-MW-96S (374.40) (1.006) (374.42)
SB915-MW-91SN (373.39) (1.012) (373.50)
WASTEBED 12
RETENTION PONDS
SB915-MW-04 (373.12) (1.022) (373.39)
SB915-SWSG-08 (374.69)
375
SB915-MW-95S (374.90) (1.020) (374.99)
SB915-MWB-01S (369.02) (1.004) (369.08)
380
385
SB915-WB-02U (375.01) (1.000) (375.01)
WASTEBED 14
SB915-SWSG-09 (399.19)
390
SB915-MW-84S (367.71) (1.002) (367.73)
SB915-MW-117S (373.44) (1.010) (373.57)
WASTEBED 15
SB915-PZ-07N (413.51) (1.050) (415.59) NC
SB915-MW-87S (374.43) (1.004) (374.45)
SB915-MW-116S (371.68) (1.012) (371.79)
SB915-MW-85S (367.83) (1.060) (368.49)
SB915-MW-03 (378.98) (1.002) (379.03)
SB915-MW-107S (375.29) (1.032) (375.72)
SB915-MW-94S (381.28) (1.004) (381.30)
SB915-MW-103S (377.85) (1.002) (377.87)
SB915-MW-106S (376.88) (1.000) (376.88)
SB915-WB-05U (374.98) (1.012) (374.99)
SB915-MW-105S (NA) (NA) (NA)
SB915-MW-01 (391.88) (0.998) (391.88)
SB915-MW-104S (392.42) (1.062) (393.09)
SB915-MW-118S (378.28) (1.006) (378.32)
SB915-WB-01U (377.18) (1.000) (377.18)

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FIGURE 41

N

LEGEND

- GROUNDWATER ELEVATIONS EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- SURFACE WATER STAFF GAUGE
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

SHALLOW NATIVE GROUNDWATER ELEVATION CONTOURS JANUARY 2013

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

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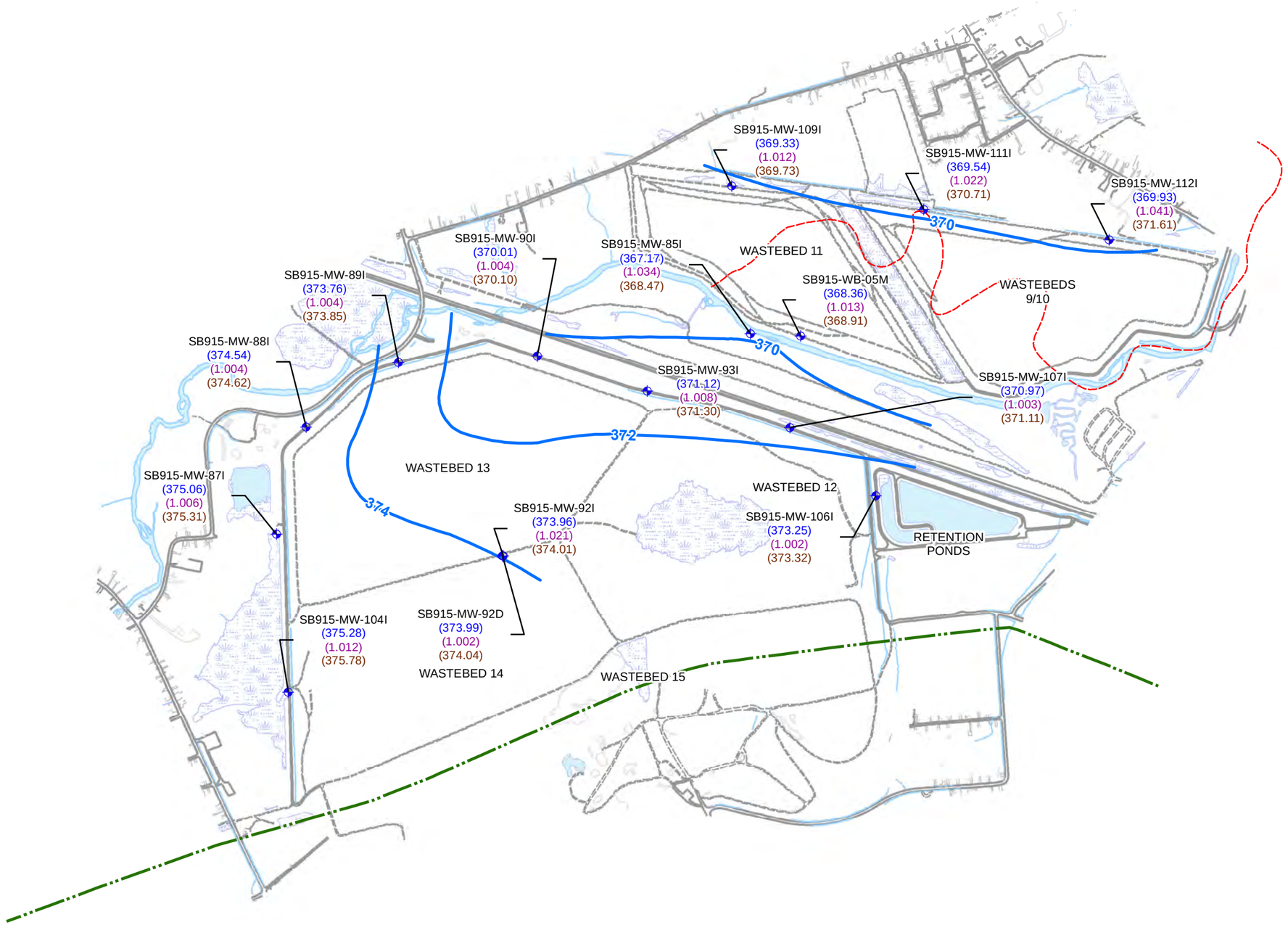

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FIGURE 42

N

LEGEND

- GROUNDWATER ELEVATION EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

INTERMEDIATE NATIVE GROUNDWATER ELEVATION CONTOURS APRIL 2012

0 600 1,200 2,400
Feet

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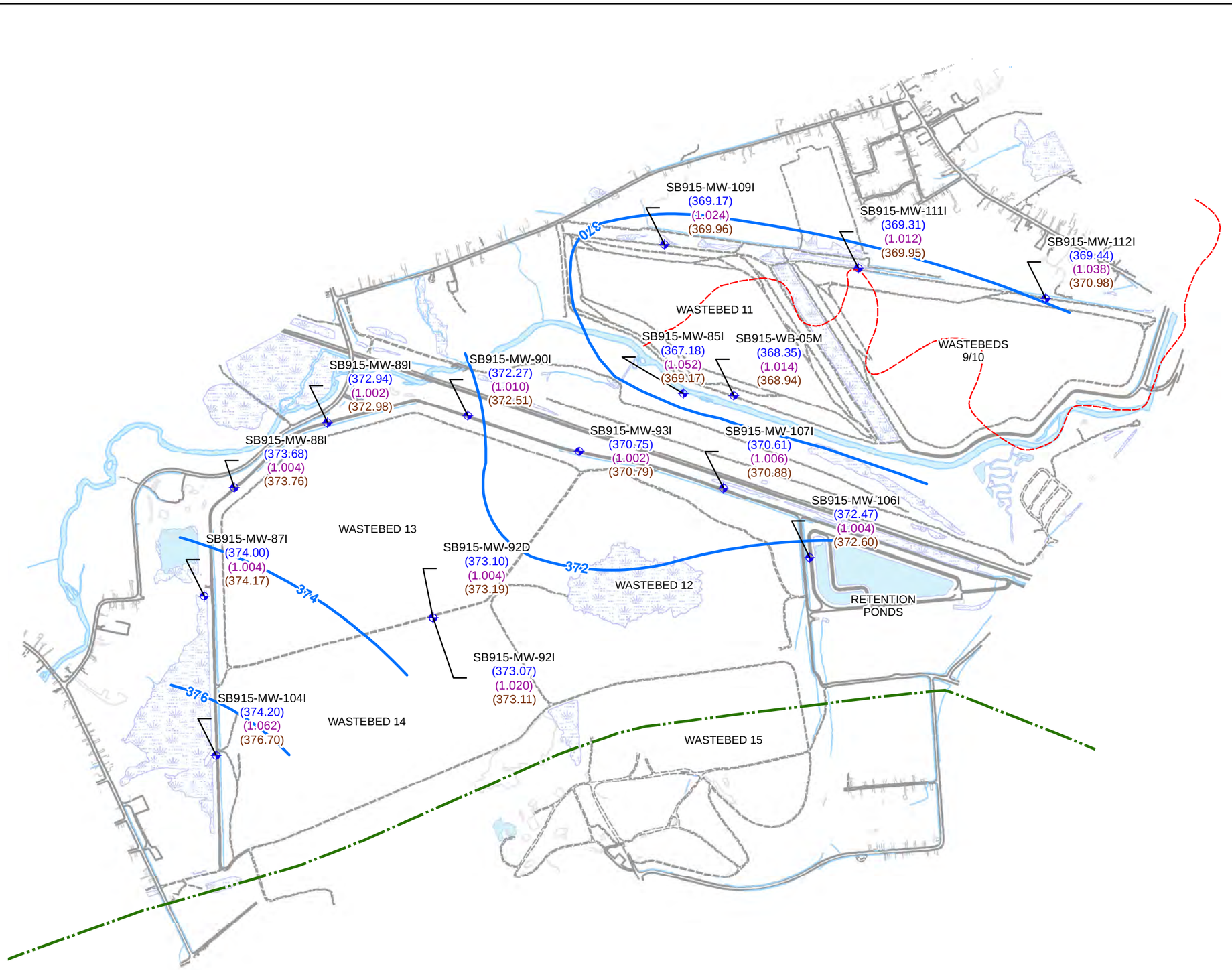

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FIGURE 43

N

LEGEND

- GROUNDWATER ELEVATIONS EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

INTERMEDIATE NATIVE GROUNDWATER ELEVATION CONTOURS JULY 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
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SB915-MW-109I
(368.73)
(1.026)
(369.58)

SB915-MW-111I
(368.80)
(1.010)
(369.32)

SB915-MW-112I
(369.13)
(1.010)
(369.53)

SB915-MW-85I
(366.91)
(1.040)
(368.43)

WASTEBED 11

SB915-WB-05M
(367.93)
(1.020)
(368.76)

WASTEBEDS
9/10

SB915-MW-88I
(373.09)
(1.004)
(373.16)

SB915-MW-89I
(372.40)
(1.004)
(372.48)

SB915-MW-90I
(371.76)
(1.006)
(371.90)

SB915-MW-93I
(370.23)
(1.050)
(371.34)

SB915-MW-107I
(370.15)
(1.004)
(370.33)

SB915-MW-106I
(371.95)
(1.002)
(372.01)

SB915-MW-92D
(372.50)
(1.002)
(372.54)

WASTEBED 13

SB915-MW-87I
(373.38)
(1.002)
(373.46)

WASTEBED 12

RETENTION
PONDS

SB915-MW-92I
(372.54)
(1.016)
(372.57)

SB915-MW-104I
(373.58)
(1.002)
(373.66)

WASTEBED 14

WASTEBED 15

370
371
372
373

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FIGURE 44

N

LEGEND

- GROUNDWATER ELEVATION EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

INTERMEDIATE NATIVE GROUNDWATER ELEVATION CONTOURS OCTOBER 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

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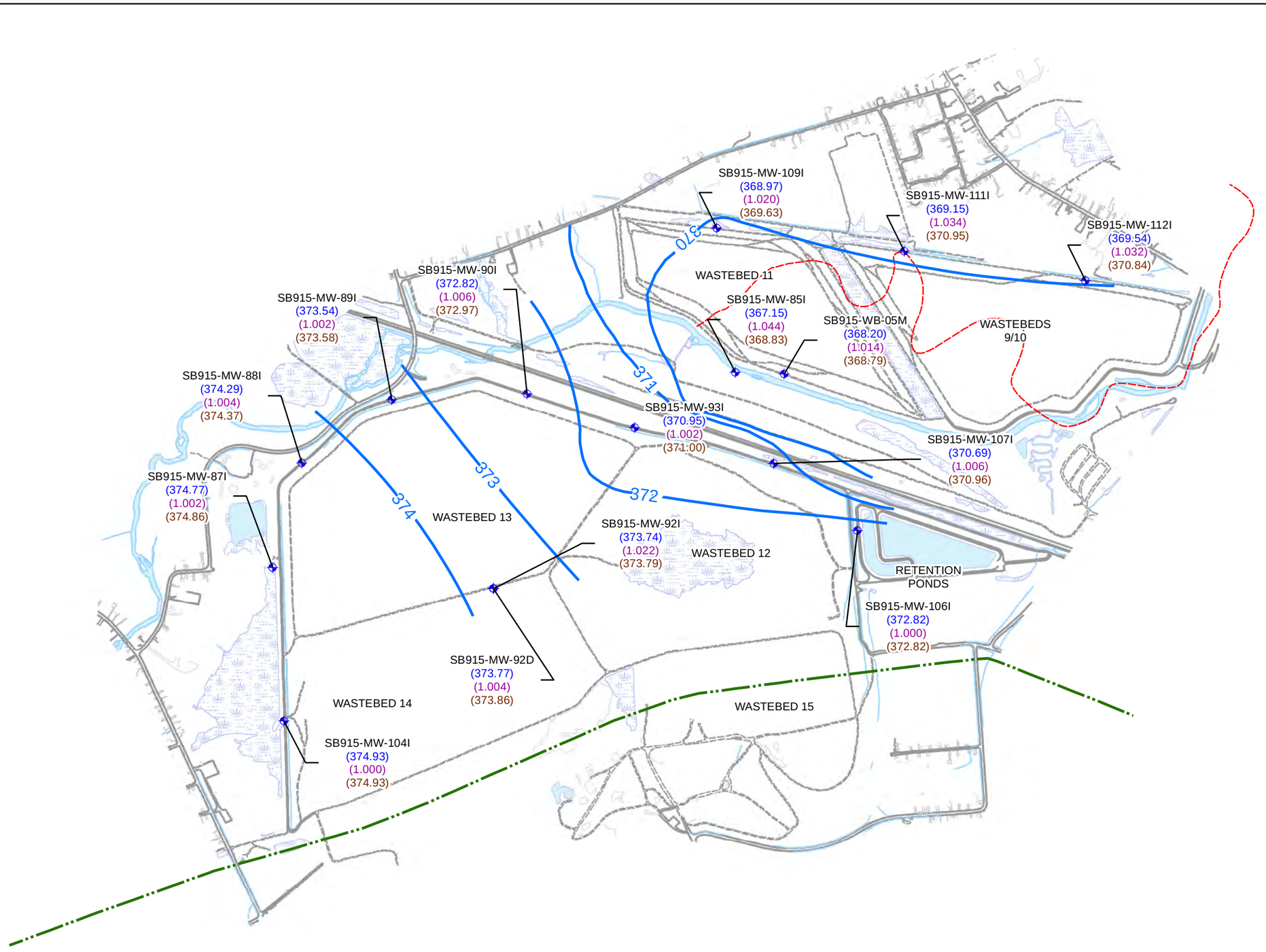

FIGURE 45

N

LEGEND

- GROUNDWATER ELEVATIONS EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

INTERMEDIATE NATIVE GROUNDWATER ELEVATION CONTOURS JANUARY 2013

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

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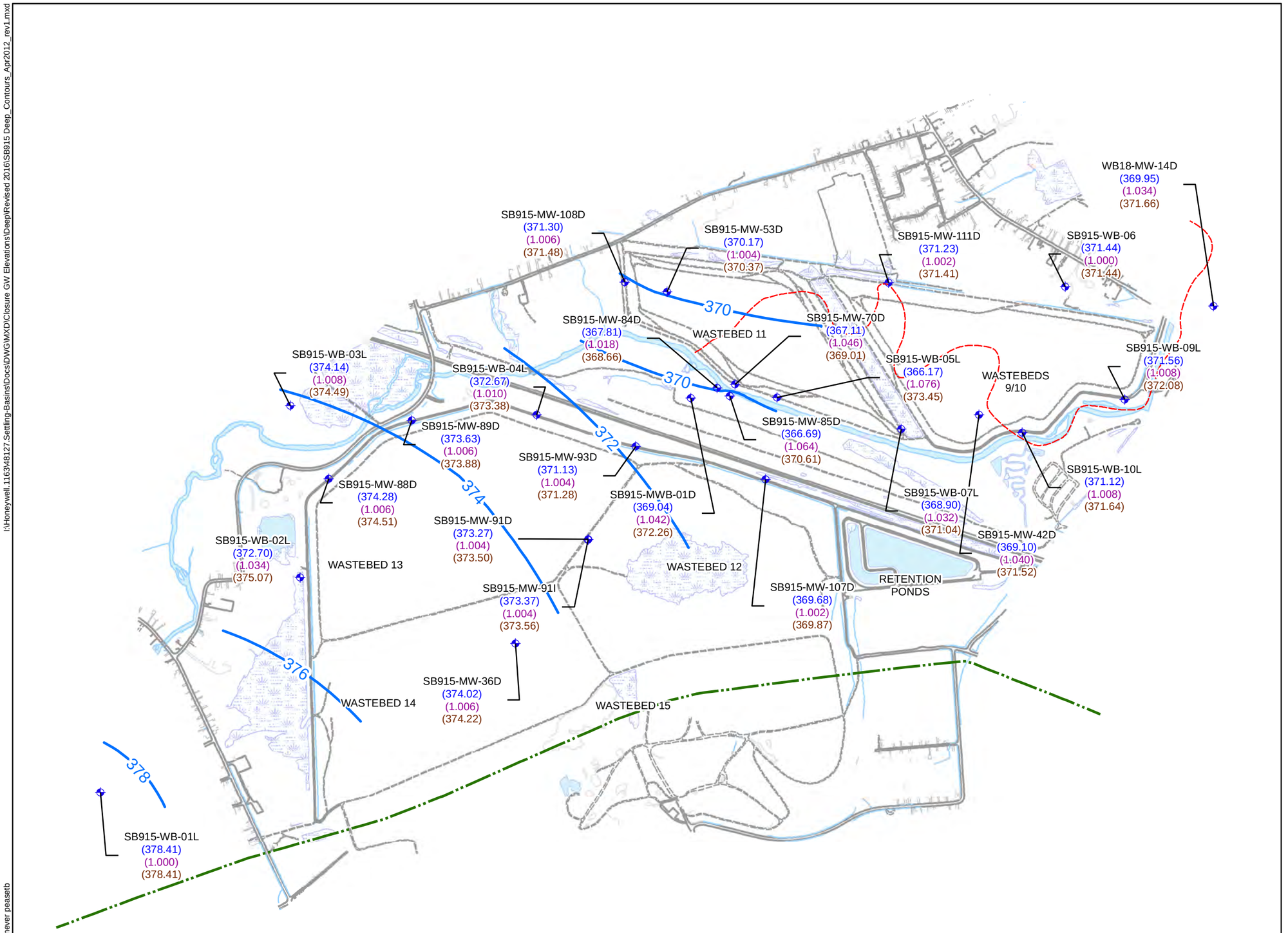

This document was developed in color. Reproduction in B/W may not represent the data as intended.

FIGURE 46

N

LEGEND

- GROUNDWATER ELEVATION EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

DEEP NATIVE GROUNDWATER ELEVATION CONTOURS APRIL 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

PLOTDATE: never never peasetb

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PLOTDATE: never never peasetb

SB915-MW-84D
(367.78)
(1.032)
(369.29)

SB915-MW-108D
(370.97)
(1.002)
(371.03)

SB915-MW-53D
(370.08)
(1.002)
(370.18)

SB915-MW-111D
(370.99)
(1.028)
(373.44)

WB18-MW-14D
(369.33)
(1.038)
(371.21)

SB915-WB-06
(370.75)
(1.002)
(370.88)

SB915-MWB-01D
(369.04)
(1.058)
(373.49)

WASTEBED 11

SB915-MW-70D
(367.09)
(1.050)
(369.15)

WASTEBEDS
9/10

SB915-WB-09L
(370.77)
(1.010)
(371.42)

SB915-WB-03L
(373.22)
(1.010)
(373.65)

SB915-MW-89D
(372.80)
(1.006)
(373.05)

SB915-WB-04L
(371.98)
(1.010)
(372.68)

SB915-WB-05L
(366.16)
(1.074)
(373.25)

SB915-MW-42D
(368.58)
(1.040)
(370.98)

SB915-MW-88D
(373.38)
(1.012)
(373.82)

SB915-MW-93D
(370.79)
(1.004)
(370.94)

SB915-MW-91I
(372.59)
(1.004)
(372.78)

SB915-MW-85D
(366.70)
(1.070)
(370.98)

SB915-WB-10L
(370.53)
(1.044)
(373.36)

SB915-WB-02L
(371.67)
(1.048)
(374.97)

SB915-WB-07L
(368.08)
(1.040)
(370.72)

WASTEBED 13

WASTEBED 12

SB915-MW-91D
(372.49)
(1.006)
(372.82)

RETENTION
PONDS

SB915-MW-36D
(373.12)
(1.006)
(373.31)

SB915-MW-107D
(369.32)
(1.006)
(369.88)

WASTEBED 14

WASTEBED 15

SB915-WB-01L
(376.92)
(1.000)
(376.92)

370

372

374

376

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FIGURE 47

N

LEGEND

- GROUNDWATER ELEVATIONS EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

DEEP NATIVE GROUNDWATER ELEVATION CONTOURS JULY 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

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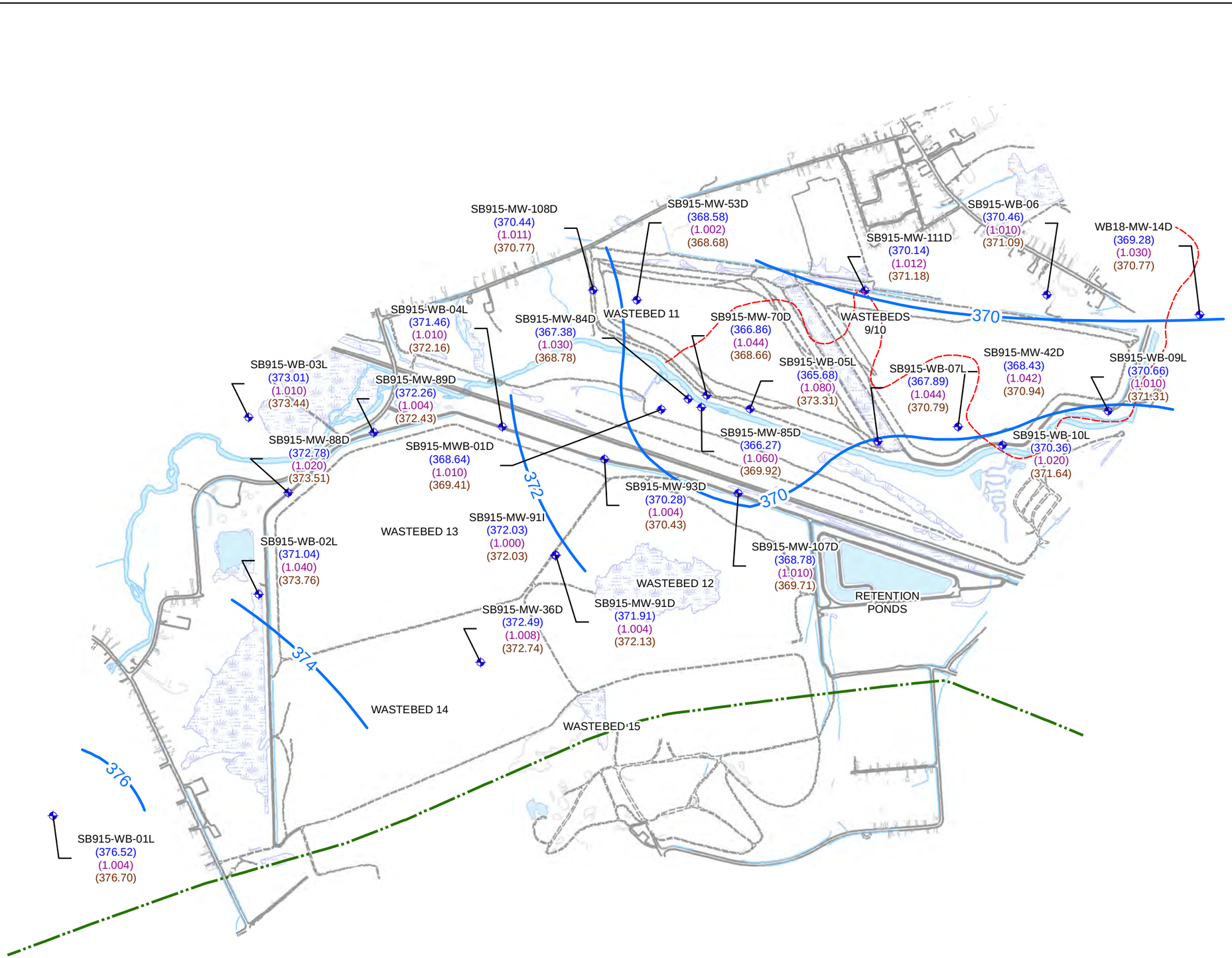

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FIGURE 48

N

LEGEND

- GROUNDWATER ELEVATIONS EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

DEEP NATIVE GROUNDWATER ELEVATION CONTOURS OCTOBER 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

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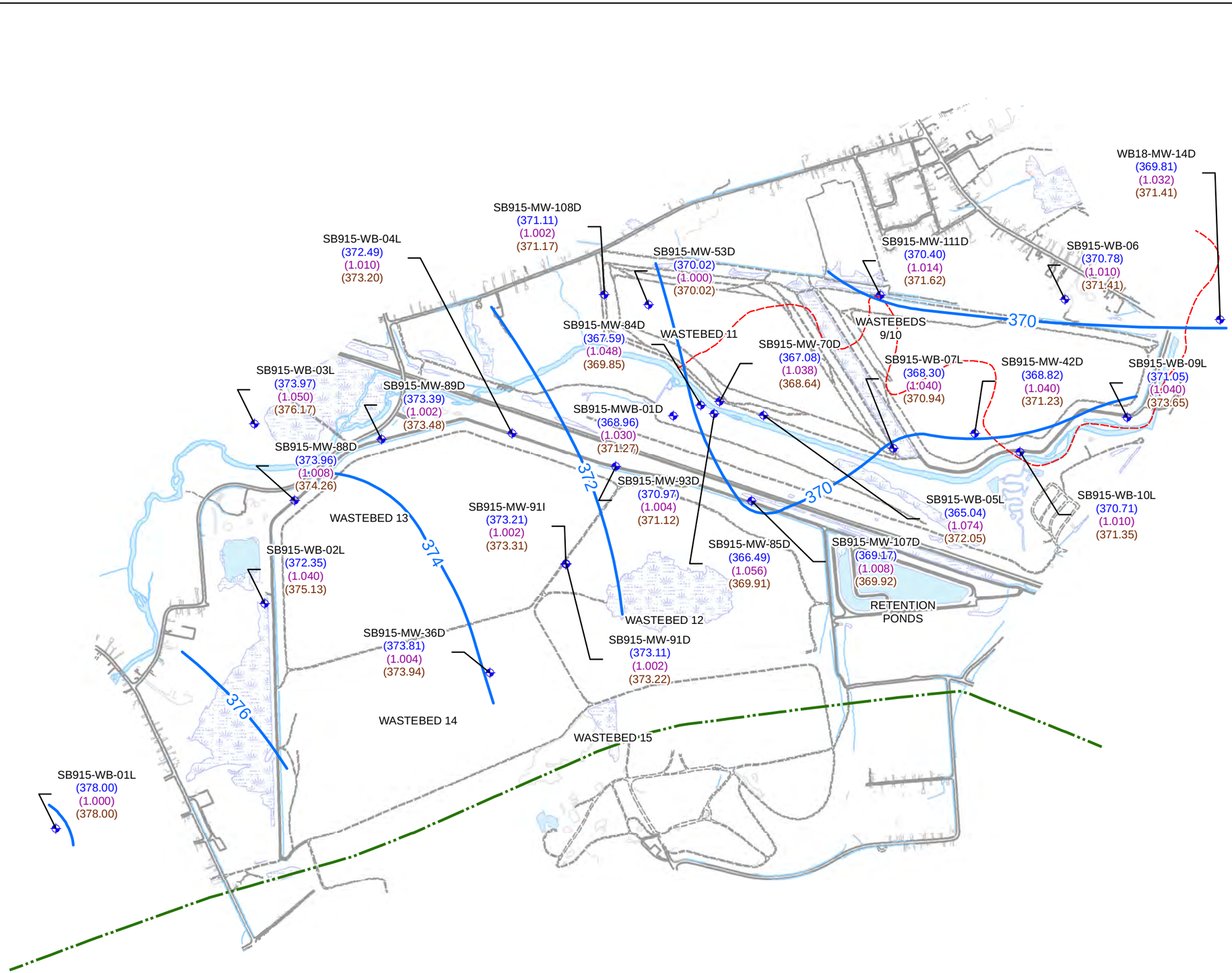
FIGURE 49



LEGEND

- GROUNDWATER ELEVATIONS EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

DEEP NATIVE GROUNDWATER ELEVATION CONTOURS JANUARY 2013

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

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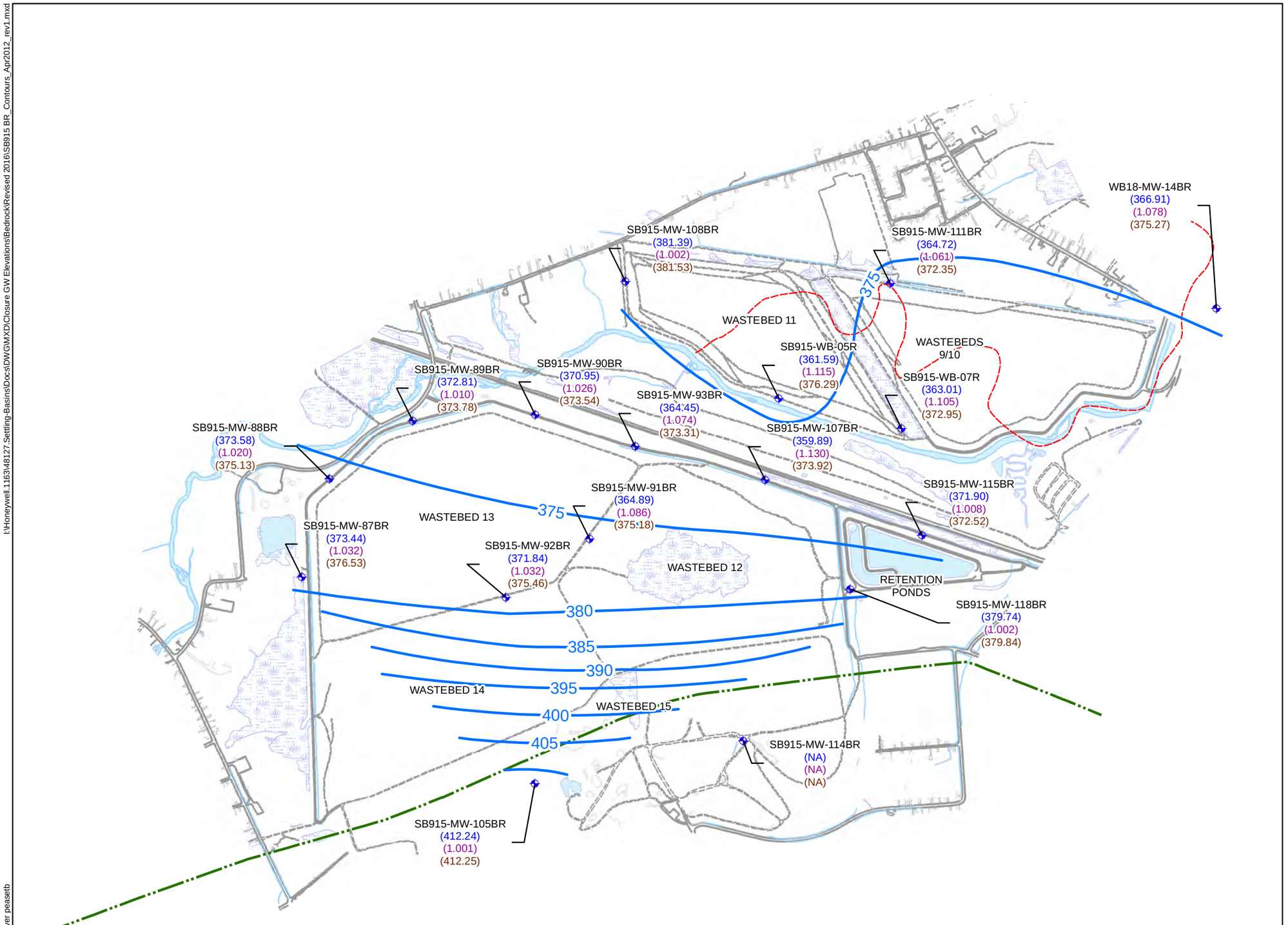

FIGURE 50

N

LEGEND

- GROUNDWATER ELEVATION EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

BEDROCK GROUNDWATER ELEVATION CONTOURS APRIL 2012

0 600 1,200 2,400
Feet

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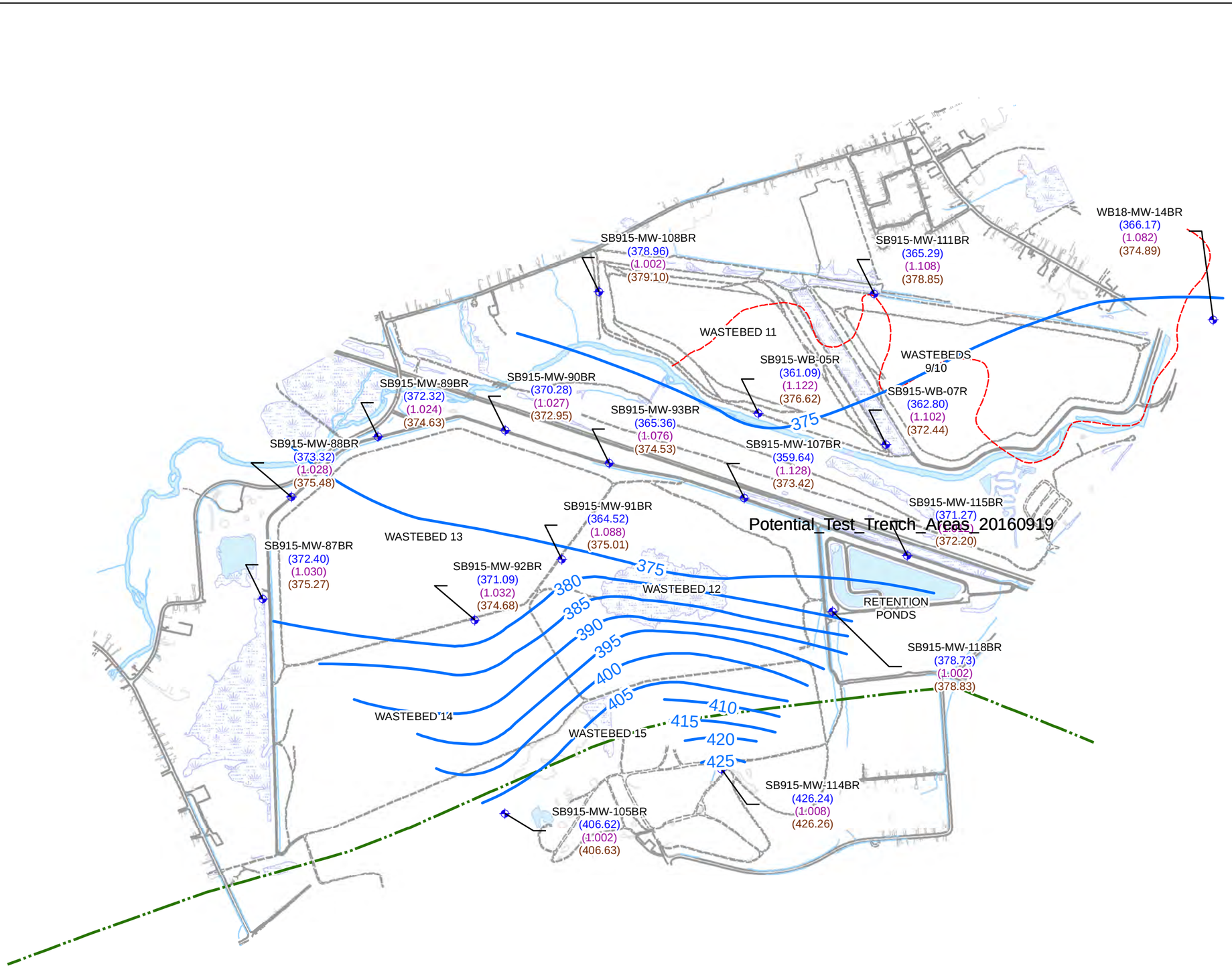

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FIGURE 51

N

LEGEND

- GROUNDWATER CONTOURS EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

BEDROCK GROUNDWATER ELEVATION CONTOURS JULY 2012

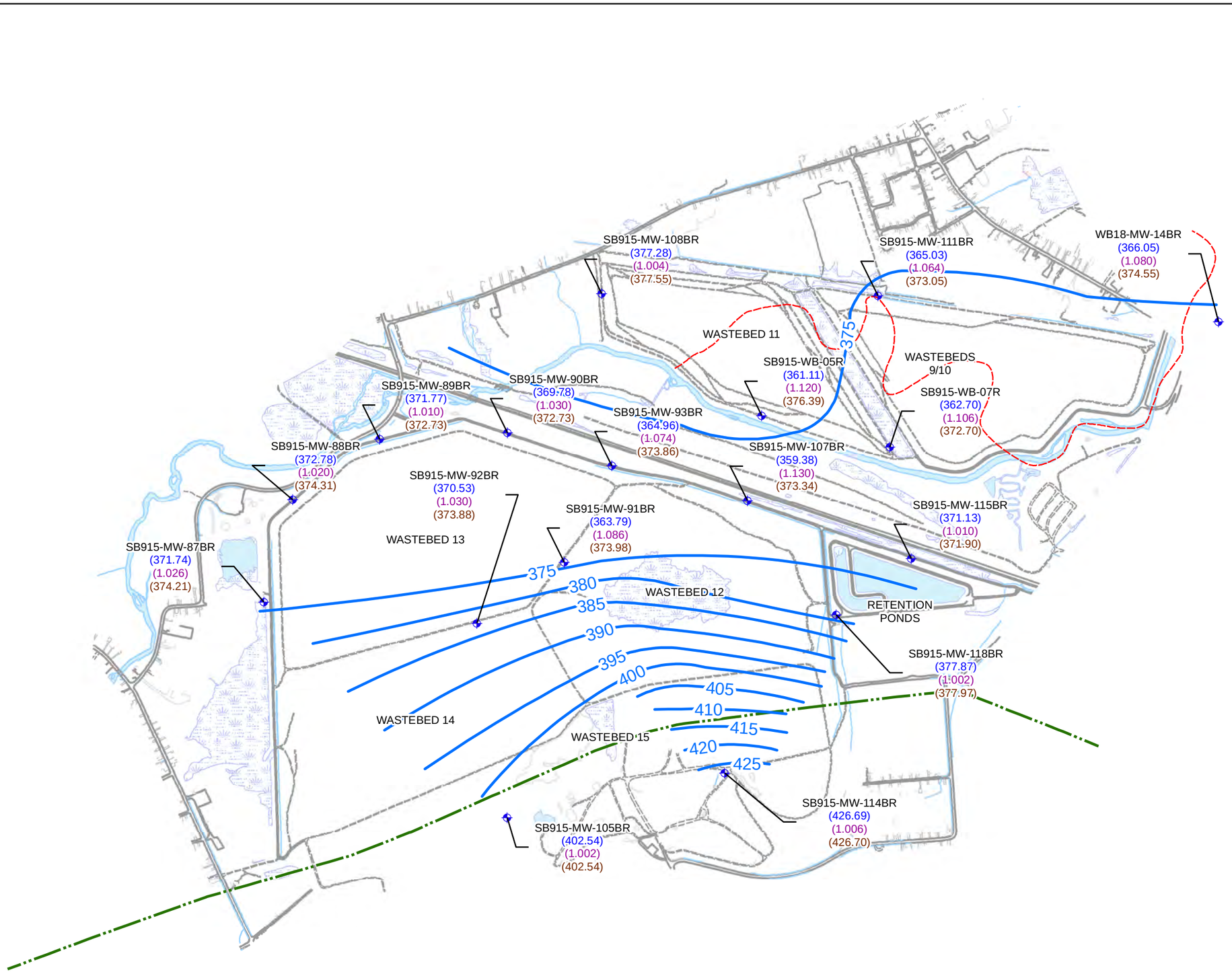
0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

PLOTDATE: never never peasetb t:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure GW Elevations\Bedrock\Revised 2016\SB915 BR_Contours_Oct2012_rev1.mxd

FIGURE 52



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LEGEND

- GROUNDWATER ELEVATIONS EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

BEDROCK GROUNDWATER ELEVATION CONTOURS OCTOBER 2012

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

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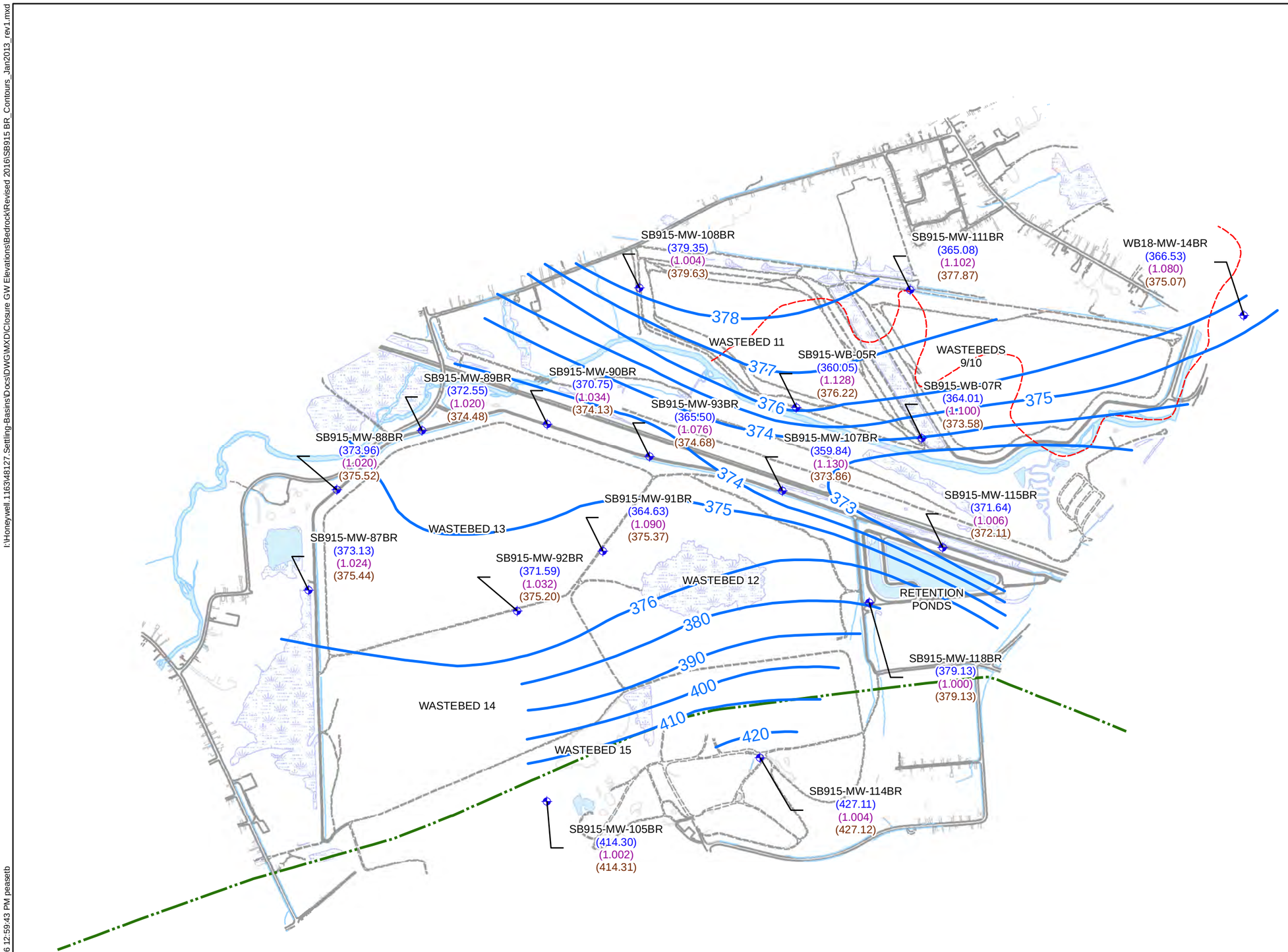

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FIGURE 53

N

LEGEND

- GROUNDWATER ELEVATIONS EQUIVALENT FRESH WATER HEAD (FT AMSL)
- MONITORING WELL
- FORMER ERIE CANAL
- FORMER NINEMILE CREEK CHANNEL

SB915-MW-113S - *LOCATION ID*
366.27 - *GROUNDWATER ELEVATION (FTAMSL)*
1.006 - *SPECIFIC GRAVITY*
373.12 - *EQUIVALENT FRESH WATER HEAD (FT AMSL)*
NA= NOT AVAILABLE
NC= NOT CONTOURED

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES AND CAMILLUS, NY

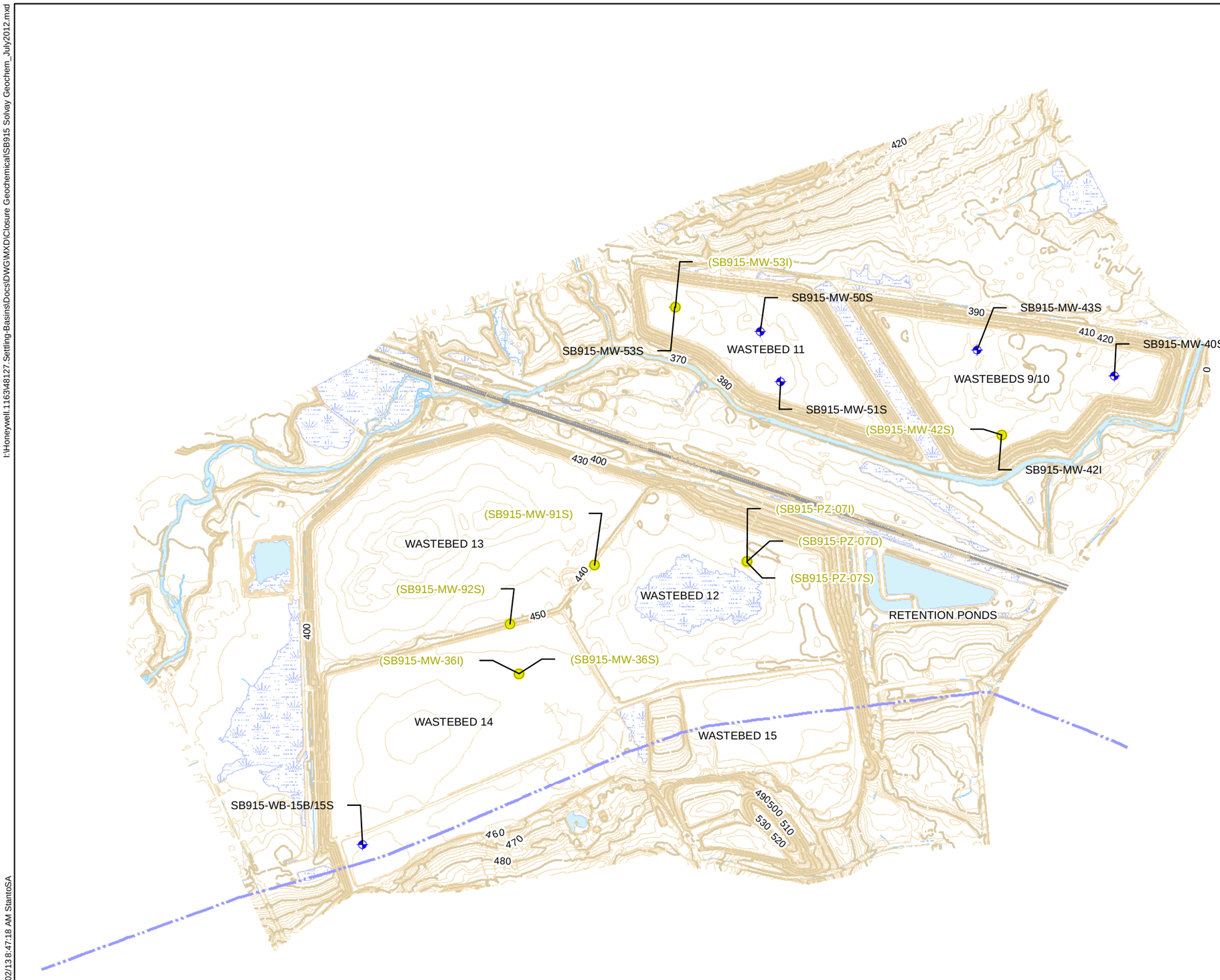
BEDROCK GROUNDWATER ELEVATION CONTOURS JANUARY 2013

0 600 1,200 2,400
Feet

OCTOBER 2016
1163.48127

O'BRIEN & GERE

FIGURE 54



LEGEND

- NOT SAMPLED
- NATIVE HALITE BRINE
- LEACHATE BRINE MIX
- DILUTE LEACHATE
- NATIVE OVERBURDEN/FRESH
- LEACHATE

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

SOLVAY WASTE GROUNDWATER GEOCHEMISTRY JULY 2012

0 600 1,200 2,400
Feet

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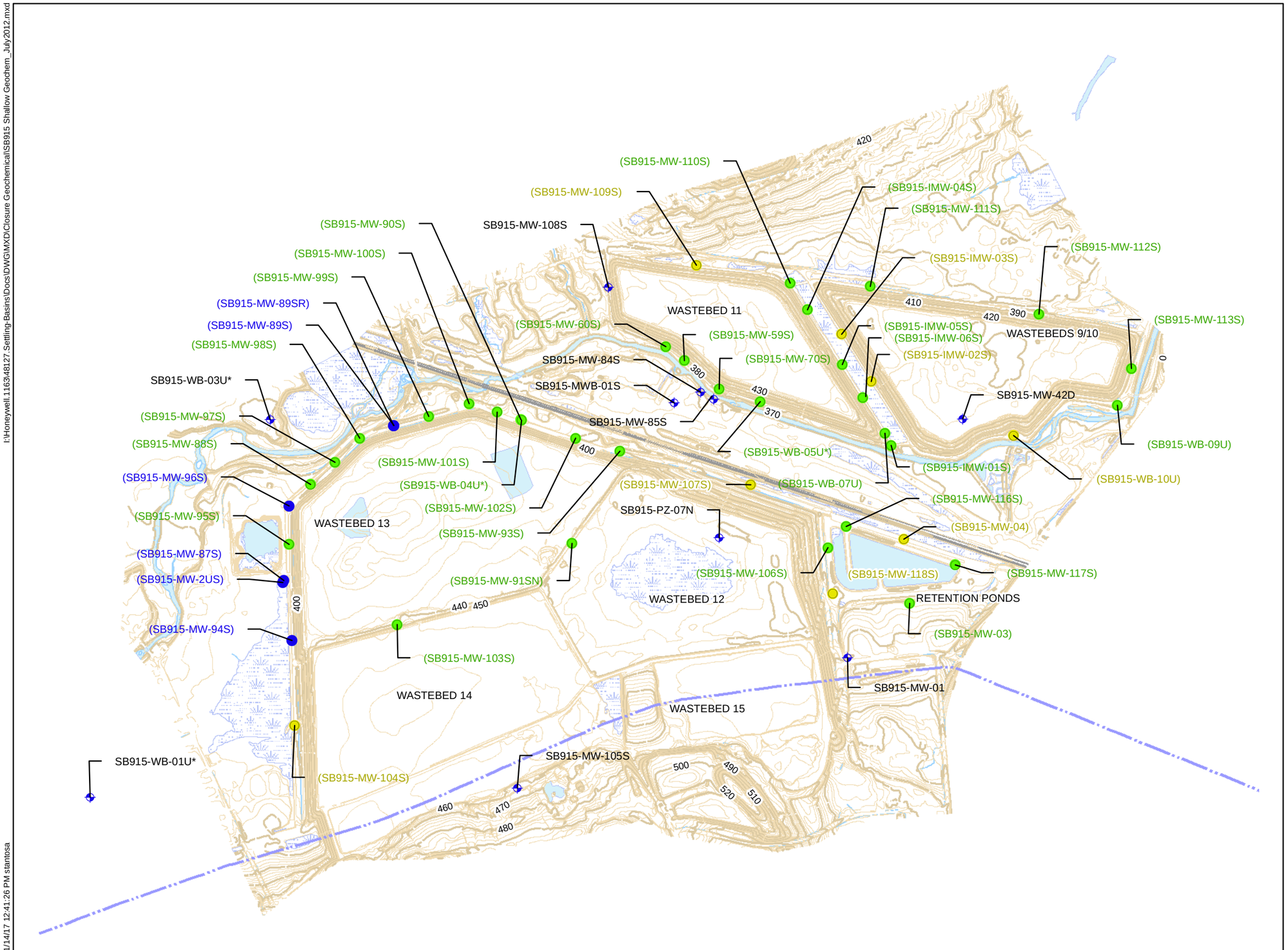
FIGURE 55



LEGEND

- NOT SAMPLED
- NATIVE HALITE BRINE
- LEACHATE BRINE MIX
- DILUTE LEACHATE
- NATIVE OVERBURDEN/FRESH
- LEACHATE

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

SHALLOW NATIVE GROUNDWATER GEOCHEMISTRY JULY 2012

0 600 1,200 2,400
Feet

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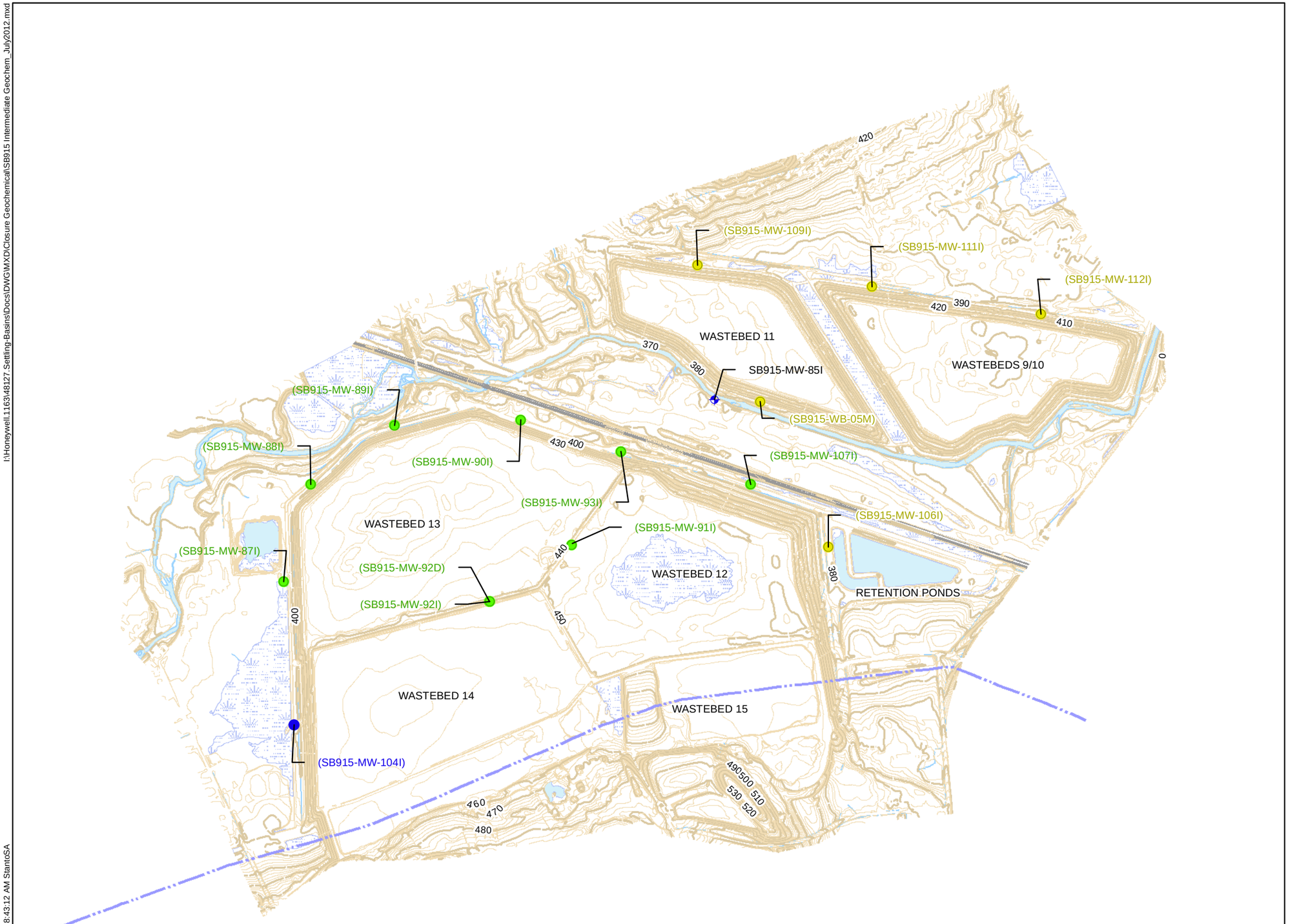
FIGURE 56



LEGEND

- NOT SAMPLED
- NATIVE HALITE BRINE
- LEACHATE BRINE MIX
- DILUTE LEACHATE
- NATIVE OVERBURDEN/FRESH
- LEACHATE

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

INTERMEDIATE NATIVE GROUNDWATER GEOCHEMISTRY JULY 2012

0 600 1,200 2,400
Feet

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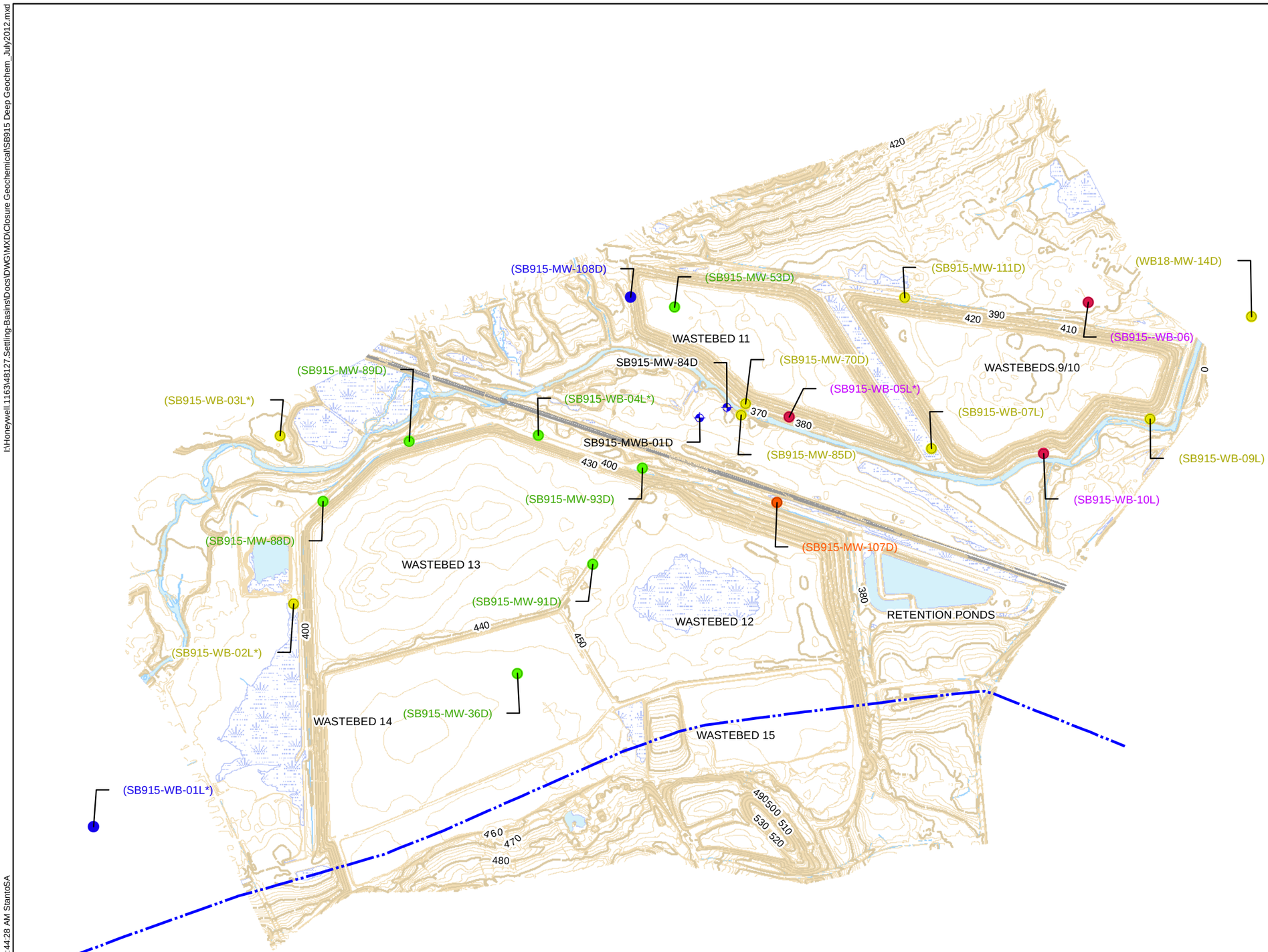
FIGURE 57



LEGEND

- NOT SAMPLED
- NATIVE HALITE BRINE
- LEACHATE BRINE MIX
- DILUTE LEACHATE
- NATIVE OVERBURDEN/FRESH
- LEACHATE

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

DEEP NATIVE GROUNDWATER GEOCHEMISTRY JULY 2012

0 600 1,200 2,400
Feet

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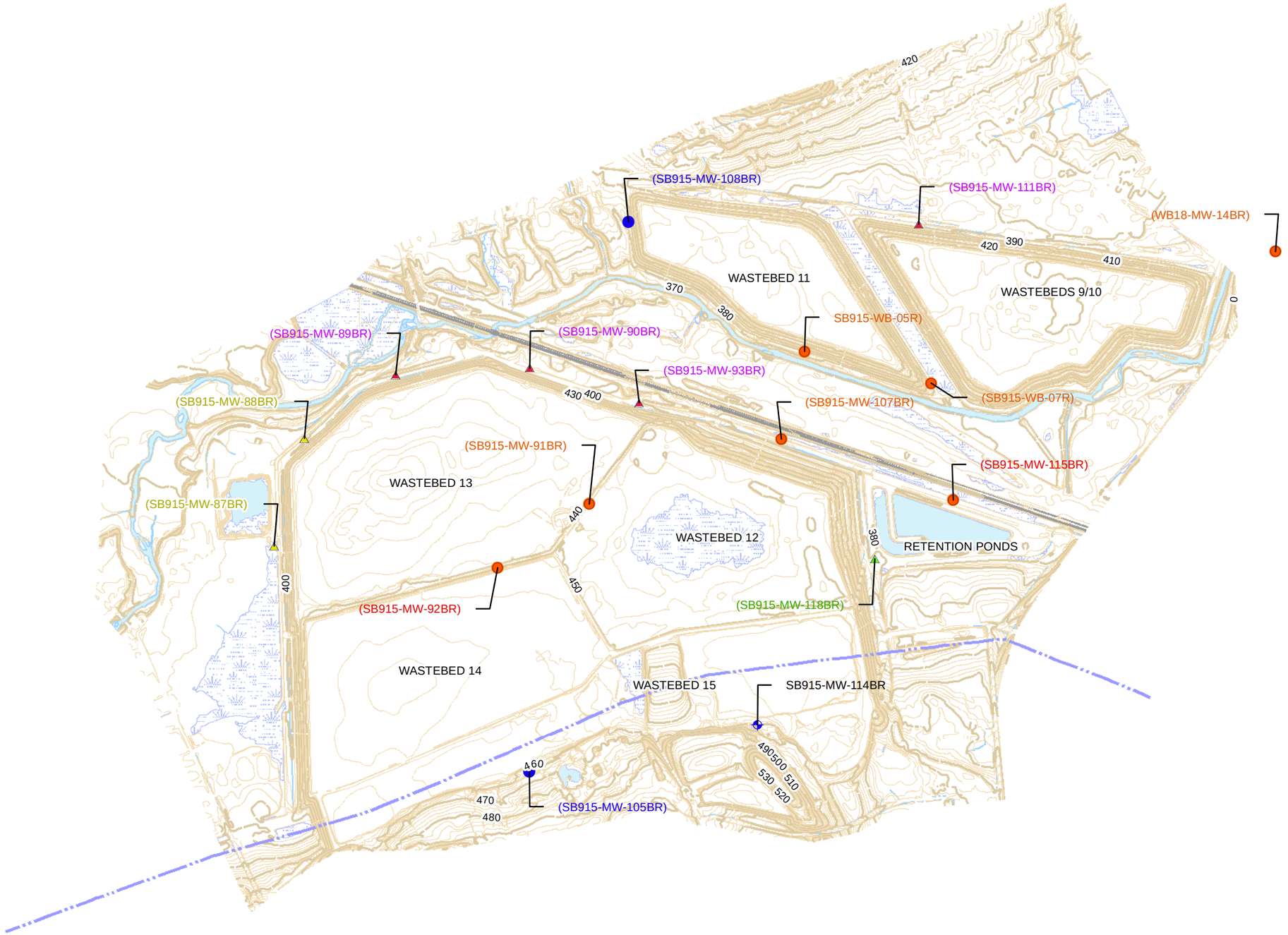
FIGURE 58



LEGEND

- NOT SAMPLED
- NATIVE HALITE BRINE
- NATIVE OVERBURDEN/FRESH
- UNKNOWN TYPE - 1
- UNKNOWN TYPE - 2
- UNKNOWN TYPE - 3

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

BEDROCK GROUNDWATER GEOCHEMISTRY JULY 2012

0 600 1,200 2,400
Feet

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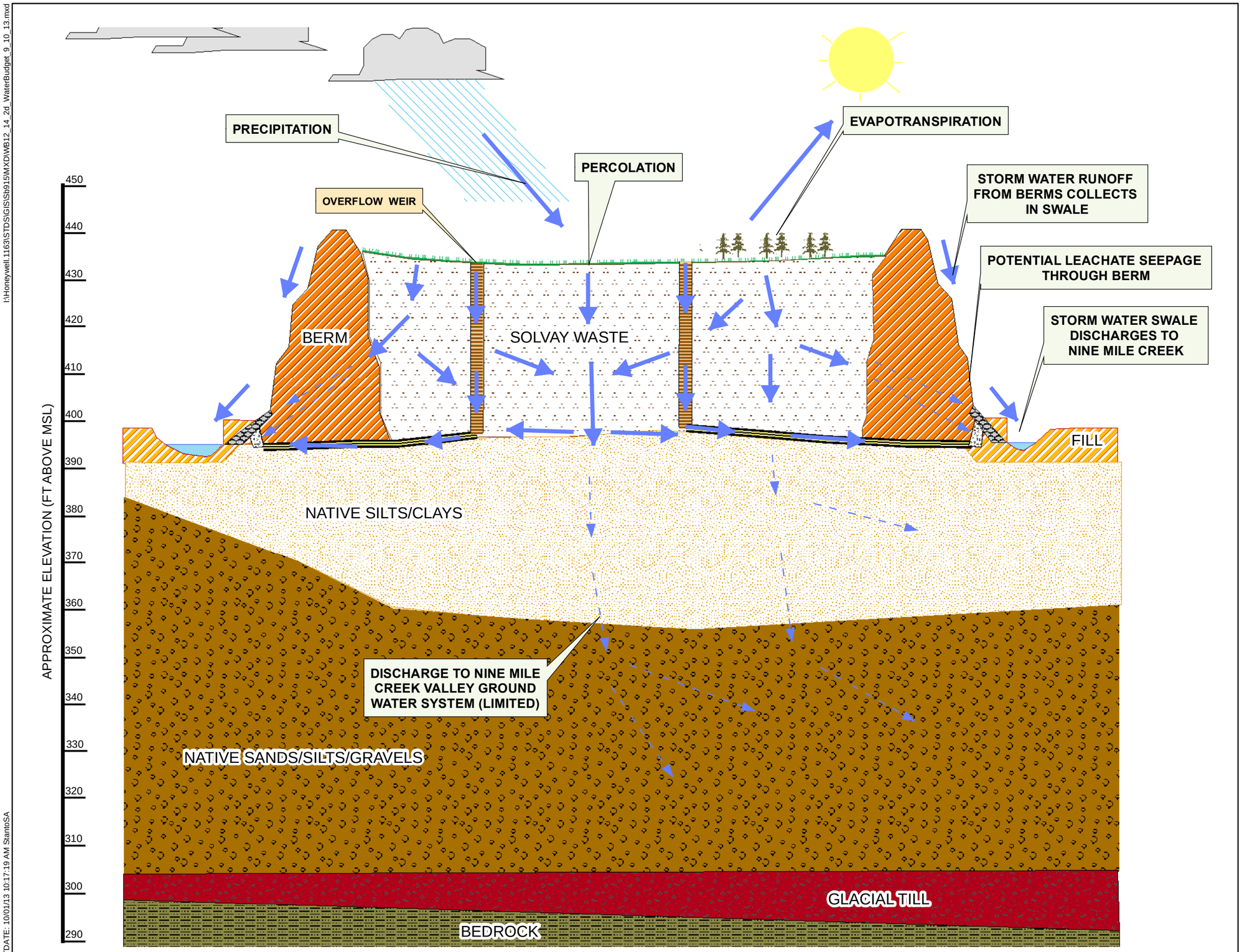
FIGURE 59



LEGEND

- STONE FILLED TRENCH
- GEOCOMPOSITE/GEOMEMBRANE
- 24" OVERFLOW PIPE
- OVERFLOW WEIR

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

WASTEBEDS 12 & 14 CONCEPTUAL SITE MODEL (CURRENT CONDITIONS)

OCTOBER 2013
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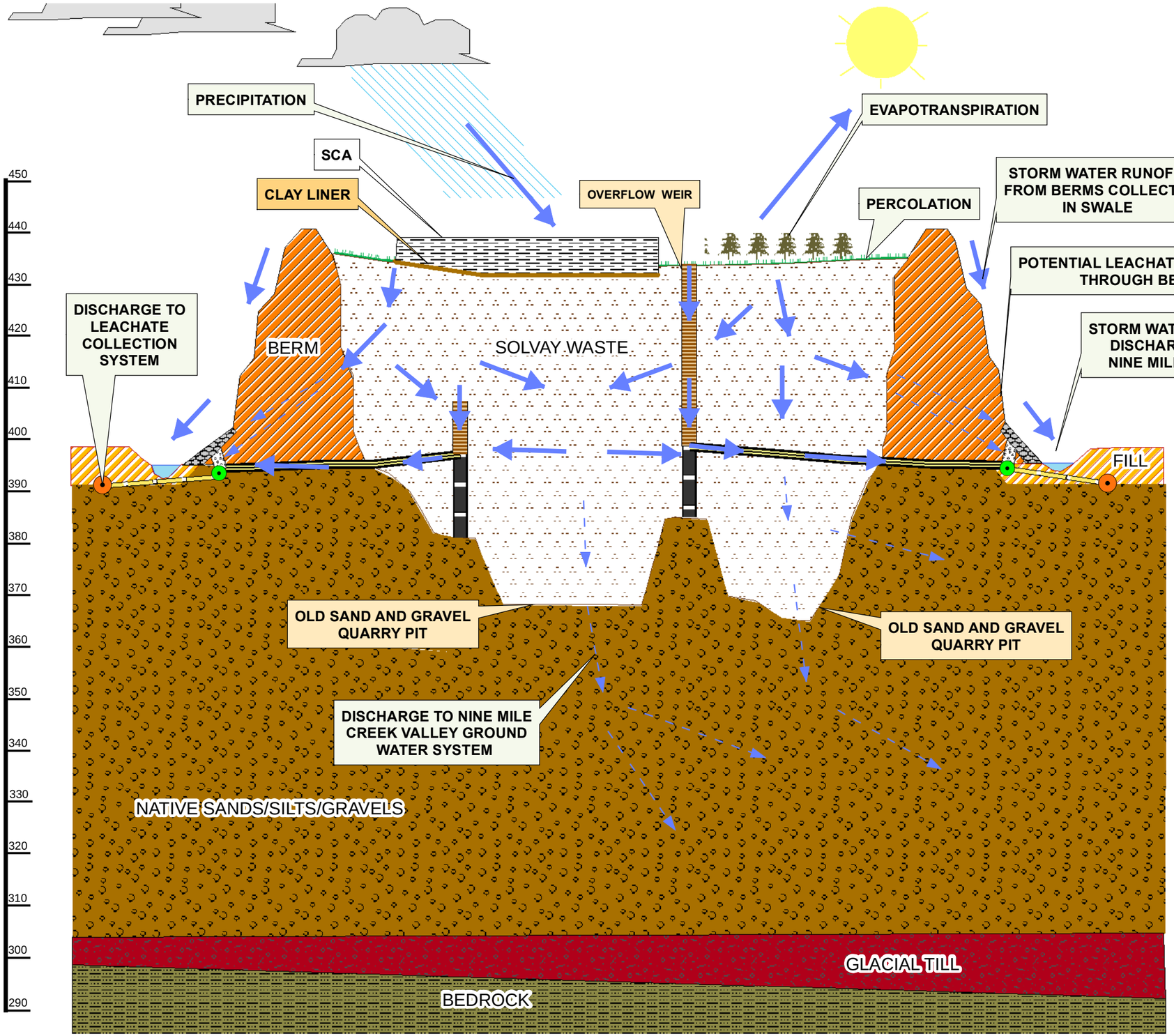
FIGURE 60



LEGEND

- 12" LEACHATE CONVEYANCE PIPE
- 6" PERFORATED LEACHATE COLLECTION PIPE
- STONE FILLED TRENCH
- GEOCOMPOSITE/GEOMEMBRANE
- 12" CONVEYANCE PIPE
- 24" OVERFLOW PIPE
- OVERFLOW WEIR
- WEIR BOX SUPPORTS

HONEYWELL
WASTEBEDS 9 - 15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

WASTEBED 13 CONCEPTUAL SITE MODEL (CURRENT CONDITIONS)

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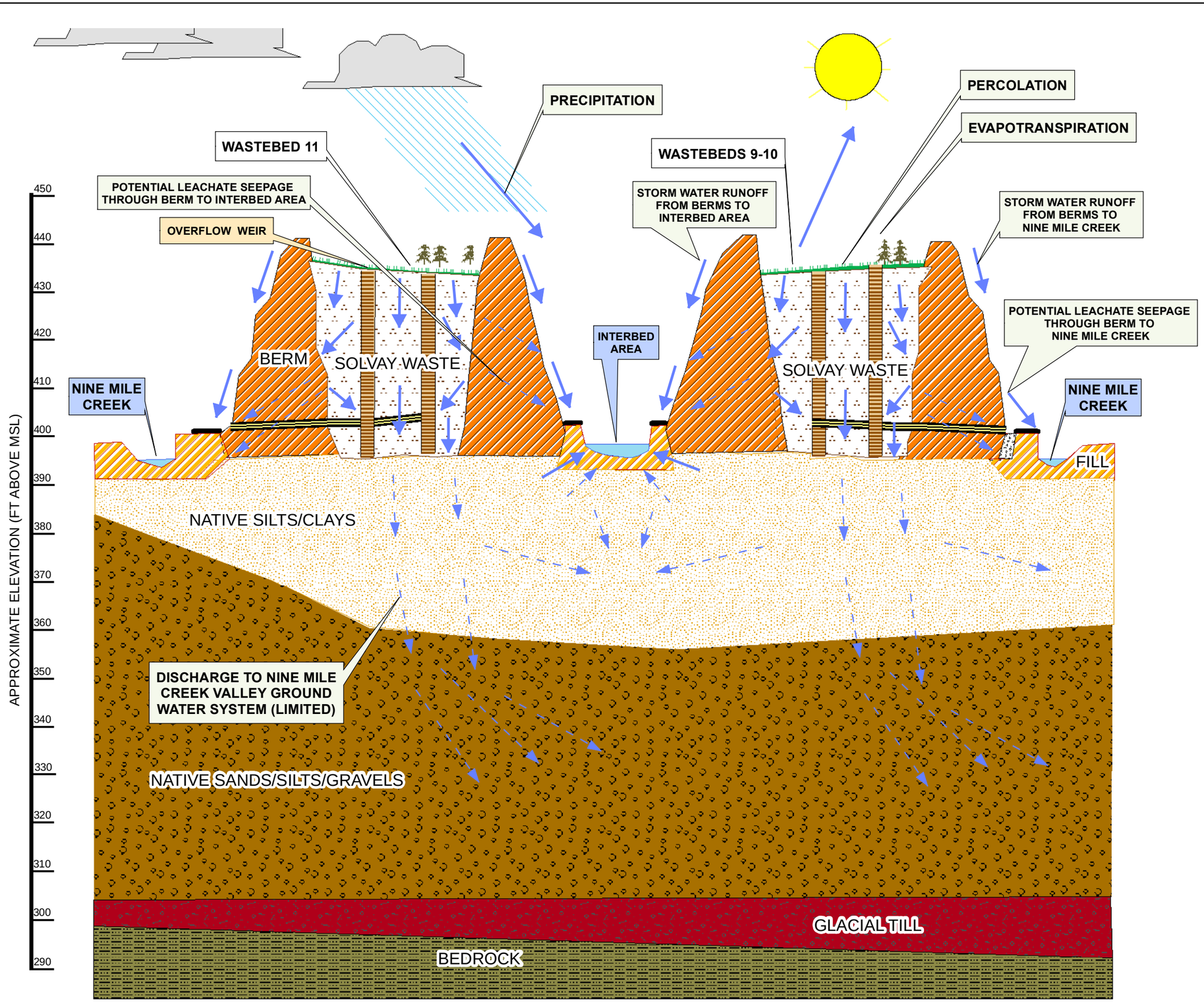
FIGURE 61



LEGEND

- COLLECTION SYSTEM
- 24" OVERFLOW PIPE
- OVERFLOW WEIR
- ACCESS ROAD

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

WASTEBEDS 9-11 CONCEPTUAL SITE MODEL (CURRENT CONDITIONS)

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Appendices

Appendix A

Records Search Report (on CD at end of Appendices)

APPENDIX A – Requirements for Records Search Report

1. Identify all environmental data and information in the possession or control of Respondent and Respondent's agents and consultants regarding environmental conditions at or emanating from the Site, including the Retention Ponds, the Interbed Area, and the Surrounding Affected Area, as defined in this Order.

1. **Program:** Ninemile Creek twice monthly (minimum) sampling at Route 48 and Amboy Dam.
   Year: 1987 to 2008
   Responsible Party: Onondaga County Department of Water Environment Protection
   Data: Analyses for temperature, specific conductivity, dissolved oxygen (DO), pH, and varying laboratory analytical parameters (including phosphorus species, organic carbon, dissolved and suspended solids, chloride, and alkalinity).

2. **Program:** Quarterly Ninemile Creek surface water and adjacent groundwater monitoring well sampling under SPDES Permit #NY0002275
   Year: 1989 to present
   Responsible Party: Honeywell
   Data: Surface water samples are collected from ten locations, and groundwater samples are collected from five locations. The samples are analyzed for total dissolved solids (TDS) and chloride. Quarterly sampling was performed between 1989 and 2003, and annual sampling has been performed since 2005.

3. **Program**: Onondaga Lake Ambient Monitoring Program: conducted from 1998 through 2012
   Year: 1998 to 2012
   Responsible Party: Onondaga County Department of Water Environment Protection
   Data: 1998 through present: Analytical results are available for Ninemile Creek in Lakeland for metals, total alkalinity, BOD_5, chloride, chlorophyll, charge balance, total cyanide, conductivity, DO, fecal coliform, flow, hardness, ammonia, nitrite, nitrate, organic nitrogen, pH, salinity, SiO_2, sulfate, soluble reactive phosphorus, total dissolved phosphorus (TDP), TDS, temperature, total inorganic carbon, total Kjeldahl nitrogen (TKN), total organic carbon (TOC), total phosphorus, total suspended solids (TSS), turbidity, and water level. This analytical data was also collected between 1993 and 1997.

4. **Program:** Onondaga County Self Monitoring Report Permit #801 Compliance Sampling
   Year: 2001 to present
   Responsible Party: Honeywell
   Data: Discharge water samples are collected from three locations (LCCS pH Adjustment Station, Metro Monitoring Station, and Interbed Area Pump Station outflow pipe) on a monthly basis. These samples are analyzed for VOCs, flash point, hexavalent chromium, biochemical oxygen demand (BOD), TSS, target metals (cadmium, chromium, copper, lead, nickel, silver, and zinc), high resolution mercury, ammonia, TKN, total and amenable cyanide, oil and grease, and phenols. Field parameters (pH, temperature, conductivity, and free chlorine) are recorded for these three locations and the Camillus Pump Station.

5. **Program:** Town of Camillus Construction and Demolition (C&D) Landfill Environmental Monitoring Report
   Year: 2001 to present
   Responsible Party: Town of Camillus

Data: Results from bi-annual environmental monitoring performed at the Town of Camillus C&D Landfill from one upgradient monitoring well (BI-7) and four downgradient wells (OC-2, TC-1, TC-2, and TC-3). Analytical parameters include organic compounds (acetone, benzene, chlorinated benzenes, toluene, and phenols), metals, and other inorganic parameters (alkalinity, hardness, TDS, chloride, sulfate, bromide, boron, hexavalent chromium, nitrate, ammonia, TKN, chemical oxygen demand (COD), BOD, TOC, and cyanide). Several of the analytical results were observed to exceed New York State Department of Environmental Conservation (NYSDEC) Part 703 Groundwater Standards.

6. **Program:** SPDES Permit #NY0002275 Compliance Sampling
   Year: 2006 to present
   Responsible Party: Honeywell
   Data: Surface water samples are collected from four outfall locations on a monthly basis and analyzed for volatile organic compounds (VOCs) ammonia, TDS, TSS, chloride, high resolution mercury, total phosphorus, and reactive phosphorus.

2. Provide a comprehensive list of all existing relevant reports with titles, authors, and subject matter, as well as a description of the results of all previous investigation of the Site and of the areas surrounding the Site which are or might be affected by contamination and pollutants at the Site, including all topographic and property surveys, engineering studies, and aerial photographs.

The following are included immediately after this appendix showing the topographic, surface soil, and property surveys and aerial photographs (1938 to 1994).

- The topographic survey was performed in 2004 by Richard M. Rybinski, a NYS-licensed land surveyor (Appendix A – Attachment 1).
- The soil survey was provided by the United States Department of Agriculture (USDA) National Resources Conservation Service (Appendix A – Attachment 2).
- Aerial photographs were provided by the USDA Farm Service Agency (Appendix A – Attachment 3).
- The property survey (Appendix A – Attachment 4) was performed by O'Brien & Gere in 2009.

Wastebeds 9-15 Previous Investigations

1. **Report**: Stability Investigation; Waste Disposal Bed Number 9.
   Year: 1949
   Author: Evan W. Vaughn Consulting Engineer
   Objective: To provide geotechnical recommendations for increasing the berm height of Wastebed 9. The following items were considered in the investigation:
   1) Identify the phreatic line (water table) within the dike.
   2) Measure pore water pressure in the clay layer.
   3) Evaluate the stability of the slope based on the measured location of the phreatic line.

   Data: Five borings: B-102 to B-106; ten test pits: TP-1 through 10; seven piezometers: PZ-1 through 7; one observation well: P-8
   Results: Suggestions were made for the increasing of the height of Wastebed 9. Limits were set on the slope of the banks up to 50 ft high and then from 50 to 70 ft. Pressure relief wells were recommended to relieve artesian pressure in the foundation.

2. **Report**: Report on Subsurface Investigation and Stability Analysis for Proposed New Solvay Dyke and Waste Beds, Camillus, New York
   Year: 1950
   Author: B.K. Hough
   Objective: To evaluate the suitability in nature and extent for foundation stability of the proposed wastebed dyke and fill material, which supplements previous stability only investigations.
   Data: Standard soil drilling was performed, and samples were collected for visual classification and mechanical analysis. Some samples were collected for strength analysis.
   Results: Two areas were identified as requiring further investigation for dyke stability, and one of these areas (northwest corner of proposed Wastebed 12) required modification to the design to adjust for the possibility of slide flow due to vibrations. The remainder of the dyke was found to be stable. Three key portions of the investigation were separately and are discussed below.

- Location of a drainage ditch immediately adjacent to the dyke along the western edge of the wastebeds was found to be feasible.
- The provisions of drainage wells and flattening of the exterior slope of the dyke at the northeast corner of the wastebeds is recommended as being essential to dyke stability.
- The probability of appreciable seepage from the wastebeds into Ninemile Creek at the northwest corner is indicated.

3. **Report**: Report Embankment – Waste Disposal Pond No. 15 Subsurface Investigation for Allied Chemical Corporation; Solvay, New York
   Year: 1974
   Author: Dames & Moore
   Objective: To perform an evaluation of subsurface conditions at the proposed site of the embankment for Wastebed 15 and use of the subsurface material for the embankment.
   Data: Surface and subsurface conditions were evaluated using site reconnaissance, test borings (with some rock coring), and test pits. Soils were visually classified and evaluated, while groundwater level was measured during the drilling activities.
   Results: Removal of approximately 3 ft of clayey silt at the surface is needed to provide a stable base for the proposed embankments. The silty clay layer under the clayey silt does not represent a risk failure or significant settling and thus no major foundation problems were envisioned. On-site materials were not considered viable for use in constructing the embankment.

4. **Report**: Soil Engineering Studies Waste Embankment 13 for Allied Chemical; Solvay, New York
   Year: 1975
   Author: Dames & Moore
   Objective: To perform an evaluation of subsurface conditions at the proposed site of the embankment for Wastebed 13.
   Data: A field evaluation of the subsurface soils and water table was performed, as well as laboratory analyses for effective stress strength parameters.
   Results: The dimensions and slope of the initial embankment were provided (35 ft high by 25 ft wide at a slope of 2:1). An additional 65 ft could be constructed (for a maximum height of 100 ft) using a slope of 3:1. The construction of a drain was determined to be critical for the embankment stability. Utilization of on-site borrow material was found to be suitable for the first 35 ft of the embankment.

5. **Report**: Soil Engineering Studies Waste Embankment for Waste Pond 15 for Allied Chemical Corporation; Solvay, New York
   Year: 1975
   Author: Dames & Moore
   Objective: To further evaluate the subsurface conditions (from the 1974 report above) for the Wastebed 15 embankment.
   Data: The investigation included laboratory analyses of soil samples and analytical studies of the design criteria.
   Results: The recommendations included:
   - Construction of the embankment should be performed in stages and included proposed design dimensions, including height, width, slope, and safety factor.
   - Embankment fill materials from on-site drumlins were suitable for the construction.

6. **Report**: Instrumentation and Subsurface Investigation, Existing Waste Pond 14 for Allied Chemical Corporation; Solvay, New York

Year: 1976
Author: Dames & Moore
Objective: To evaluate the subsurface conditions for the Wastebed 14 embankment.
Data: The investigation included installation of seven piezometers and one monitoring well, advancing ten soil borings and ten test pits to establish the subsurface profile, laboratory analyses, and slope stability analyses.
Results: The field investigation determined that the actual phreatic line is lower than estimated. Based on the stability analyses, the safety factor for a western embankment of 75 ft under static loading is 1.4 and 1.1 with an earthquake loading of 0.1g. Recommendations included:

- There should be continued monthly recording of piezometer water levels; if a sudden considerable rise occurs, deposition of waste materials should be stopped immediately.
- The placement of waste materials in Wastebeds 13, 14, and 15 should be managed to maintain a low level of water in the wastebeds.

7. **Report**: Leachate Seeps Assessment
Year: 1987
Author: Blasland, Bouck & Lee (BB&L)
Objective: To evaluate the source of seep water around Wastebeds 12 through 15 by chemically characterizing seeps water. The report indicated that there may be multiple sources including Solvay Process leachate from the wastebeds, landfill leachate from the Camillus Landfill, or leachate from refuse placed within the former Erie Canal.
Data: Samples were collected from eight leachate seeps and two monitoring wells and analyzed.
Results: Analysis of the chemical data indicated that there was a blending of landfill and wastebed leachate, especially in the vicinity of Wastebed 15.

8. **Report:** Allied Wastebed Monitoring Program
Year: 1987
Author: Onondaga County Department of Drainage and Sanitation
Objective: Compilation of Allied Wastebed Monitoring Program data and program history.
Data: The report compiles the sludge quantity and quality data, Allied wastebed leachate and groundwater data, and chronology of sludge disposal at the wastebeds.
Results: No conclusions or recommendations were made as this was a data compilation.

9. **Report:** Hydrogeologic Assessment of the Allied Wastebeds in the Syracuse Area, Volume 1 and Volume 2
Year: 1989 and 1988
Author: Blasland, Bouck & Lee
Objective: To investigate the impact of leachate from Wastebeds 9-15, on groundwater and surface water in surrounding areas.
Data: Multiple investigations were included in an effort to determine the impact of leachate on surface water and groundwater. These efforts are summarized below:

- Resistivity Survey: A resistivity survey was completed in an attempt to delineate the vertical and horizontal extent of potential brine plumes associated with Wastebeds 9-15. The resistivity surveys yielded inconclusive results. Several factors complicated the data interpretation including the heterogeneity of the geologic and the hydrogeologic conditions adjacent to the wastebeds, and the high saline

conditions of the groundwater. These factors made it hard to isolate variations in resistivity.

- Boring and Monitoring Well Installation: During October and November 1987, nineteen borings were advanced to investigate the subsurface geologic and hydrogeologic conditions in areas surrounding Wastebeds 9-15. Of these 19 borings, sixteen were converted into monitoring wells (WB-1U, WB-1L, WB-2U, WB-2L, WB-3U, WB-3L, WB-4U, WB-4L, WB-5U, WB-5M, WB-5L, WB-6L, WB-7U, WB-7L, WB-BU, WB-BL), and are configured in a series of eight well clusters in order to compare multiple permeable zones encountered in different locations.
- Water Sampling: A round of groundwater and surface water sampling was conducted from December 9-22, 1987 by BB&L. Samples include:
  1) All sixteen wells installed as part of BB&L's hydrogeologic investigation.
  2) 25 surface water samples (analyzed for alkalinity [as hydroxide, carbonate, and bicarbonate], pH, specific conductance, calcium, chloride, fluoride, iron, magnesium, nitrate, potassium, sodium, strontium, sulfate, and TDS.

  Several methods for evaluating the data were employed, including:
  1) Piper Diagrams
  2) Linear regression analysis
  3) Comparisons of anion/cation ratios
  4) XY plots of depth versus ion concentrations
  5) XY plots of time versus ion concentrations
- In-Situ Hydraulic Conductivity Analysis: In-Situ hydraulic conductivity tests were performed on seven wells during December 1987. Tests were performed by the "slug test" method. Tests were performed on wells; WB-2U, WB-4L, WB-5M, WB-5L, WB-BU, and WB-BL.
- Stream Flow Measurements: Stream flow measurements were taken on December 3 and 4, 1987 and March 11, 1988. Measurements obtained to determine the relative contribution of major tributaries to Onondaga Lake. Flow data and chemical analytical data results combined to determine chemical loading of Onondaga Lake.

Results: These were data compilations and did not determine any conclusions.

10. **Report**: Physical/Chemical Characteristics of Water and Surficial Sediment in Lower Reaches of Nine Mile Creek System
    Year: 1990
    Author: CDR Environmental Specialists
    Objective: Physical and chemical surface water characteristics (chloride, sodium, calcium, hardness, alkalinity, TDS, specific conductance, TSS, turbidity) and sediment characteristics (chloride, sodium, calcium, TOC, and grain size) between the Erie Canal Parking Area (Thompson Road) through Lakeland.
    Data: Environmental Assessment of Lower Reaches of Ninemile Creek and Geddes Brook: Surface water samples were analyzed for conventional parameters, anion/cations, TSS, and ammonia; sediment samples were analyzed for chloride, TOC, calcium, sodium, and percent clay/silt; surface water, sediment, and fish tissue samples were analyzed for total mercury and methyl mercury.
    Results: Calcite formations characterizing the downstream-island section of Ninemile Creek supported substantial macroinvertebrate populations. Sediment toxicity test results indicated that sediment toxicity increased with increasing distance downstream in both lower Geddes Brook and lower Ninemile Creek, and survival and growth of midges and amphipods in this area were essentially unaffected by exposure to calcitic materials common to the downstream sections of Ninemile Creek. Water temperature and TDS were identified as the major potential threats to aquatic life. Potential mercury-related

hazards were generally confined to the most downstream stretch of Ninemile Creek, starting at the confluence with Geddes Brook. The biological integrity of the fish communities in Ninemile Creek was rated as good to excellent. Only one of 19 fish tissue samples exhibited mercury body burdens exceeding FDA action levels. Polychlorinated biphenyls (PCBs) were detected at a low level in one of three fish tested.

11. **Report**: Inflow/Outflow Study, Allied Lagoons
    Year: 1991
    Author: Calocerinos & Spina Engineers, Inc.
    Objective: Evaluate the volume of surface water in the Retention Ponds that is pumped to the Metropolitan Syracuse Sewage Treatment Plant (Metro) and the flowrate from the Wastebed 12-15 area to the Retention Ponds.
    Data: Pump rates to Metro, weir flow measurements into the first Retention Pond, historical precipitation, and water chemistry data.
    Results: Groundwater infiltration has a major influence on the level of the Retention Ponds, as flow from the wastebeds area does not correspond with the pumping volumes to Metro. Recommendations included allowing the Retention Ponds water level to rise up to a max limit and then pump surface water to Metro and perform monitoring at the weir input to the Retention Ponds.

12. **Report**: Source Area Investigation of Volatile Organic Compounds in the Vicinity of the West end of Wastebed 15 and the Erie Canal
    Year: 1993
    Author: Blasland, Bouck & Lee
    Objective: Evaluate the VOC concentrations in Wastebed 13, 14, and 15 leachate, groundwater, and surface water and their comparison to Onondaga County Department of Health (OCDOH) samples from 1991 and 1992 and off-site areas.
    Data: Groundwater, surface water, and seep samples were collected and analyzed for benzene and chlorobenzenes.
    Results: Based on the analytical results, the source of the chlorobenzenes and associated VOCs was documented to be from the fill (from unknown sources; no historic records on fill placement) associated with the former Erie Canal beneath Wastebed 15.

13. **Report**: Chlorobenzene Evaluation; Allied Wastebeds 12 to 15; Onondaga County, New York
    Year: 1995
    Author: Blasland, Bouck & Lee
    Objective: Further evaluate the distribution of benzene and chlorobenzenes within groundwater in the vicinity of Wastebeds 12-15.
    Data: Groundwater sampling of 14 existing monitoring wells and one newly installed monitoring well (WR-5R). All samples analyzed for VOCs, one sample analyzed for total calcium, magnesium, potassium, sodium.
    Results: Based on analytical results, and the observed hydraulic gradients, the source of the chlorobenzenes/benzenes detected in the wells north of Wastebed 13 (next to Ninemile Creek) was documented to be from the fill (from unknown sources; no historic records on fill placement) associated with the former Erie Canal beneath Wastebed 15.

14. **Report**: Summary Data Report; Allied Wastebeds 9 to 15 and Lower Ninemile Creek Valley; Onondaga County, New York
    Year: 1995
    Author: Blasland, Bouck & Lee
    Objective: Provide a comprehensive overview of the investigations performed to date for Wastebeds 9-15 and Ninemile Creek.

Data: Groundwater, surface water, seeps, sediments, and solids analytical data from several previous investigations.

Results: No conclusions or evaluations were made; this was a data summary.

15. **Report**: Wastebed Point Source Discharge Assessment
Year: 1996
Author: Calocerinos & Spina Engineers, Inc.
Objective: Evaluate several drainage areas located proximate to Wastebeds 9-13 where potential point sources can contribute discharges to Ninemile Creek.
Data: A field reconnaissance identified five known outfall locations and eight additional potential discharge locations in the general proximity of Wastebeds 9-11 and Ninemile Creek.
Results: Conceptual modifications were prepared to eliminate the outfalls, and potential discharge locations were identified. One of the outfall locations was not considered for modification due to a lack of leachate influence at this location.

16. **Report**: Supplemental Site Investigation Report; Wastebeds 9-15; Onondaga County, New York; Volume 1
Year: 1999
Author: Blasland, Bouck & Lee
Objective: Evaluate the potential environmental impacts of past disposal practices in Wastebeds 9 to 15 by investigating the groundwater, surface water, perched water, and sediment quality of selected locations in the vicinity of Wastebeds 9 to 15. The investigation also included a study of the sediment and surface water in Ninemile Creek upstream, downstream, and in the vicinity of Wastebeds 9 to 15.
Data: New monitoring wells WB-9U, WB-10U, WB-11U, and WB-12U were installed. Monitoring well WB-1L was abandoned. Three rounds of groundwater samples were collected. Two rounds of surface water samples were collected. Two rounds of sediment samples were collected.
Results: The highest concentrations of benzene/chlorobenzenes were observed in the groundwater from monitoring wells downgradient (generally north) of Wastebed 13. Therefore, benzene/chlorobenzenes do not appear to be associated with the Solvay Process wastes but rather the fill (from unknown sources) in the former Erie Canal bed that extends the length of Wastebed 15.

17. **Report**: Ninemile Creek/Geddes Brook Sediment Interim Remedial Measure (IRM) Investigation
Year: 2001
Author: Blasland, Bouck & Lee
Objective: Characterize sediment and floodplain soil along Ninemile Creek and Geddes Brook
Data:
    1) Eighteen, three-sediment core transects sampled along Ninemile Creek between Route 690 and Amboy Dam. The samples analyzed for TCL/TAL parameters (VOCs, semivolatile organic compounds [SVOCs], PCBs, pesticides, and metals), polychlorinated dibenzo-p-dioxins/ dibenzofurans (PCDD/Fs), mercury and methyl mercury, cyanide, and TOC.
    2) Stream channel data was collected for hydrologic modeling.
    3) Sediment probing transects at 100-ft intervals from mouth of Ninemile Creek to through Geddes Brook.
    4) Floodplain three-core sampling transects along Ninemile Creek and Geddes Brook for same analyses as above.

Results: The sediments and floodplain soils/sediments have been impacted by the parameters detected in the analytical samples. The report was presented as a data summary.

18. **Report**: Geddes Brook/Ninemile Creek Remedial Investigation (RI), Baseline Ecological Risk Assessment (BERA), and Human Health Risk Assessment (HHRA)
    Year: 2001 (Revised in 2003 by the NYSDEC)
    Author: Exponent
    Data:
    1) 1998: Habitat and hydrological evaluations; sampling of surface water, sediment, and floodplain soils; sediment toxicity testing; benthic macroinvertebrate survey; fish and muskrat sampling
    2) 2000: Wetlands delineation (Geddes Brook; Ninemile Creek from Geddes Brook through State Fair Blvd.)
    3) 2002: Young-of-year fish sampling by NYSDEC and TAMS in Ninemile Creek
    4) Water, soil, sediment, and tissue samples analyzed for Target Compound List/Target Analyte List (TCL/TAL) analytes, PCDD/Fs, wet chemistry parameters, total mercury, and methyl mercury.

    Results: The sediment, floodplain soils/sediments, surface water, and biota have been impacted by the parameters detected in the analytical samples. The preliminary remedial action objectives determined from these investigations are:
    - To eliminate or reduce, to the extent practicable, releases of mercury and other CPOIs from the sediments and floodplain soils of lower Geddes Brook and lower Ninemile Creek.
    - To eliminate or reduce, to the extent practicable, existing and potential future adverse ecological effects on fish and wildlife resources, as well as potential risks to humans.
    - To reduce, to the extent practicable, levels of mercury and other CPOIs in surface water in order to meet surface water quality standards.

19. **Report**: Geddes Brook Preliminary Design Investigation
    Year: 2002
    Author: Parsons
    Data: Sediment (8) and floodplain soil (14) samples collected between confluence with West Flume and confluence with Ninemile Creek; sediment samples analyzed for total Hg; all floodplain soils analyzed for total Hg and select samples analyzed for TOC, PCDD/Fs, hexachlorobenzene, and polycyclic aromatic hydrocarbons (PAHs).
    Results: These analyses aided in streamlining the evaluation of applicable remedial technologies and alternatives presented in the 2005 Geddes Brook/Ninemile Creek Feasibility Study.

20. **Report**: Leachate Collection and Conveyance System; Wastebeds 12-15 Completion Report.
    Year: 2003
    Author: O'Brien & Gere
    Objective: Purpose of the system is to decrease the amount of water being discharged to the retention ponds located on-site by separating leachate from storm water runoff
    Data: The Leachate Collection and Conveyance System (LCCS) was installed along the eastern, western, and northern perimeters of Wastebeds 12 through 15.
    Results: Leachate was diverted to the LCCS and directed to the retention ponds, while storm water runoff was discharged via storm water outfalls.

21. **Report:** Geddes Brook/Ninemile Creek Feasibility Study
    Year: 2005
    Author: Parsons
    Objective: Identify and evaluate remedial technologies and alternatives to address the impacted sediments, floodplain soils/sediments, surface water, and biota in Geddes Brook and Ninemile Creek.

Data: The data and evaluations from the Geddes Brook/Ninemile Creek RI, BERA, and HHRA
Results: The recommended remedial alternative included removal of sediments and capping in Ninemile Creek and removal of soils/sediments and capping in the Geddes Brook/Ninemile Creek floodplain.

22. **Report:** Phase I Environmental Site Assessment – 6338 Airport Road
Year: 2005
Author: O'Brien & Gere
Objective: Evaluate the property at 6338 Airport Road towards purchase by Honeywell.
Data: A site inspection was performed in 2005 of the physical state of the property and surrounding area; the property was also evaluated for *recognized environmental conditions* and regulatory review. A background investigation of the property history was also performed.
Results: Further investigation was recommended based on this assessment.

23. **Report:** Certification Report; Eastern Portion of Honeywell Wastebed 15; Town of Camillus, Onondaga County, New York; RES Project Number 37911
Year: 2005
Author: O'Brien & Gere
Objective: Provide certification of the remedial construction activities at the eastern portion of the Wastebed 15 closure.
Data: This report reviewed the various plans and reports developed to perform the closure of the eastern portion of Wastebed 15.
Results: The remedial activities were performed in accordance with the approved documents.

24. **Report:** Phase II Environmental Site Assessment – 6338 Airport Road
Year: 2006
Author: O'Brien & Gere
Objective: Evaluate the property at 6338 Airport Road towards purchase by Honeywell.
Data: Test pits were advanced for observation and sample collection, and soil samples were collected and analyzed for VOCs, SVOCs, PCBs, mercury, chloride, and RCRA metals.
Results: Based on field observations and analytical results, the property does not have a *recognized environmental condition*.

25. **Report**: Wastebeds 9-15 Leachate Minimization/End Use Program
Year: 2006
Author: O'Brien & Gere

Sub-program: Interbed Area Evaluation
Objective: Field measurements along the extent of the Interbed Area (conductivity, temperature, pH) and sampling for inorganic geochemical parameters (bromide, major cations and anions)
Data: Installation of six new shallow monitoring wells along the perimeter and sampling for inorganic geochemical parameter; soil boring samples and hydraulic testing collected in conjunction with the monitoring well installation.
Sub-program: Chloride Mass Balance Study
Objective: Fingerprinting chloride sources to Onondaga Lake. Comparison of chloride source fingerprints to Ninemile Creek existing surface water and groundwater geochemical data
Data: Two rounds of sampling (May and September 2006) of Ninemile Creek surface water and neighboring groundwater monitoring wells. Conductivity and temperature profile of Ninemile Creek from Amboy Dam to Onondaga Lake. Automated gauging stations

recorded flow and conductivity measurements. Installation and sampling (for inorganic geochemical parameters) of new groundwater monitoring wells along Ninemile Creek; soil boring samples and hydraulic testing collected in conjunction with the monitoring well installation

Sub-program: Sediment and surface water sampling of the Wastebeds 12-15 retention ponds.

Data: Twenty four sediment samples and 12 surface water samples were collected from the retention ponds. The sediments were analyzed for metals and miscellaneous parameters (bromide, carbonate alkalinity, cation-exchange capacity (CEC), chloride, nitrate, pH, phosphorus, sulfate, total alkalinity, and TOC). The surface water samples were analyzed for VOCs, SVOCs, metals, and miscellaneous parameters (ammonia, alkalinity [bicarbonate and total], bromide, COD, chloride, nitrate, nitrite, phosphorus, sulfate, sulfide, TDS, TOC, reactive phosphorus, and TSS).

Results: The sediments contained metals concentrations similar to that observed in the Solvay waste, and surface water contained no detectable or significant VOCs or SVOCs but did have metal concentrations similar to wastebed leachate.

Sub-program: Surface water sampling of the former gravel pit (discharge location of Outfall 017 west of Wastebed 13) in conjunction with seep sampling events

Data: A single surface water sample was collected from the gravel pond in conjunction with four seep sampling events and analyzed for VOCs, metals, ammonia, alkalinity (bicarbonate, carbonate, and total), BOD_5, bromide, COD, chloride, pH, phosphorus, sulfate, sulfide, TDS, reactive phosphorus, and TSS.

Results: Surface water contained no detectable or significant VOCs or SVOCs but did have metal concentrations similar to wastebed leachate.

Sub-program: Preliminary Study of Chloride Loading to Ninemile Creek

Objective: A detailed conductivity survey was conducted by boat on Ninemile Creek on 2006 to identify locations where significant chloride loading was occurring to the Creek.

Data: Specific Conductivity, temperature and salinity was measured using a portable multi-parameter water chemistry probe from Amboy Dam to Onondaga Lake. Archived surface water samples from other programs were also used to estimate chloride budget

Results: The chloride loading to Ninemile Creek is currently estimated to be on the order of 100 tons per day on an average annual basis. The chloride loading has decreased by about of factor of two since 1992 when it was estimated to be about 200 tons per day. Approximately 76% of the loading occurred in two small reaches adjacent to the southern berm of Wastebed 11.

Sub-program: Ninemile Creek leachate seep reconnaissance

Data: This utilized visual observation of the Ninemile Creek bank along Wastebeds 9-11 for the presence of seeps.

Results: Seeps were identified along this stretch of creek bank.

Sub-program: High Chloride Area Investigation

Data: Ninemile Creek stream bottom survey; iButton temperature loggers; temporary mini-piezometers installed.

Results: The investigation identified an area of groundwater discharge to Ninemile Creek.

26. **Report**: Shrub Willow Sustainable Remedy (SWSR) Full Scale Demonstration - Wastebed 14
Year: 2008
Author: O'Brien & Gere
Objective: The objective is to demonstrate that the SWSR will not only satisfy environmental protection criteria but will ultimately provide energy, economic, and ecosystem benefits to the Central New York community.
Data: The Full Scale Demonstration resulted in the planting of 10 acres of shrub willow and 5.7 acres of marsh plants.

Shrub Willow Plots:

- A total of 10-acres of shrub willow were planted on Wastebed 14, divided into four 2.5-acre plots.
- Ten test pits were excavated within each shrub willow plot and observations were recorded
- Soil Water Chemistry: Three to four sets of tension lysimeters were installed in each of the four shrub willow plots. Replicated sets of lysimeters were also installed at a background location where willow has not been planted.
- Soil Chemistry: A set of soil samples were obtained at different depths in each of the plots.
- Storm Water Runoff: Two runoff measurement swales were installed at the boundary between the shrub willow plots and the marsh plots. Runoff from these swales is discharged to the marsh plot through two 12-inch pipes. Area-velocity meters (ISCO model 2150) were installed within each 12-inch pipe to measure the quantity of surface water runoff from the shrub willow plots.
- Deep Percolation: Percolation from the root zone is being monitored using a network of wicking lysimeters patterned after pan lysimeters.
- Groundwater: Seven monitoring wells, MW-74 through MW-78, MW-82 and MW-83 and one nested piezometer PZ-08 (10-8 ft, 8-6 ft, 6-4 ft) were installed along an east to west transect within and around the shrub willow plots. These well locations were selected to monitor water table elevations within and on the border of the shrub willow plot area. The data collected will be used to evaluate the impact of the shrub willow plots on groundwater migration.

Marsh Plot:

- Construction and planting of the 5.7-acre marsh was included in the Full Scale Demonstration to enhance storm-water management, evapotranspiration, and the ecological diversity of the Site.
- Storm Water Runoff: An area-velocity meter was installed on the upstream face of the rectangular weir that regulates surface water discharge from the marsh during periods of high surface runoff. This meter collected data on the amount of stormwater runoff that exits the marsh plot through the existing weir box.
- Groundwater Monitoring: Three monitoring wells, MW-79, MW-80, and MW-81, and two nested piezometers PZ-09 (10-8 feet, 8-6 feet, 6-4 feet) and PZ-10 (10-8 feet, 8-6 feet, 6-4 feet), were installed within the marsh plot area. The data collected was used to define the relationship of the wetland to the shallow groundwater and to evaluate the impact of the weir boxes on the shallow groundwater flow.

Results: A formal report is still in process and will be submitted to the NYSDEC upon completion.

Wastebeds 9-15 Investigations Not Included in a Program

1. **Investigation**: Geddes Brook and Ninemile Creek floodplain sampling
   Year: 2007
   Author: Parsons
   Data: Floodplain soil samples collected along Geddes Brook and Ninemile Creek (Reach CD: south of islands and Reach AB: SYW-10 wetland area); all samples were analyzed for total mercury and select samples analyzed for arsenic, PAHs, hexachlorobenzene, and TOC.

2. **Investigation**: Bianchi property groundwater monitoring well installation and sampling
   Year: 2008
   Author: O'Brien & Gere

Objective: Drill soil borings and install monitoring wells to identify permeable gravel layer that could be a pathway for inorganic rich groundwater to Ninemile Creek

Data: October and November 2008 five monitoring wells were installed on the Bianchi property south of Ninemile Creek and Wastebed 11, as well as one soil boring and one monitoring well on Wastebed 11.

- Six monitoring wells installed: MW-84S, MW-84D, MW-85S, MW-85I, MW-85D, and MW-86D
- One soil boring: SB-59D
- Groundwater samples collected from all monitoring wells except MW-86D
- Four surface water samples collected from Ninemile Creek

3. **Investigation**: Ninemile Creek floodplain and channel sampling

   Year: 2008

   Author: Parsons

   Data: Sediment and floodplain soil samples collected along Reach CD (south of small islands) and analyzed for mercury; sediment sample locations collected along Reach AB (between confluence with Onondaga Lake and 800 ft upstream) and analyzed for mercury.

3. Provide a concise summary of information held by Respondent and Respondent's agents and consultants with respect to:

(i) a history and description of the Site and the Surrounding Affected Area, including the nature of operations;

Wastebeds 9-11 were engineered for the placement of Solvay waste, with berms containing natural materials, some Solvay Waste, and cinders. Waste material was placed in Wastebeds 9-11 between 1944 and 1968, and specifics are presented in Section (ii) below. These three wastebeds cover approximately 126.3 acres, and Wastebeds 9/10 and 11 contain approximately 8.3×10^6 yd^3 and 5.963×10^6 yd^3 of waste material, respectively.

Wastebeds 12-15 were constructed for the placement of Solvay waste. Waste material specifics and disposal dates are presented in Section (ii) below. The areas and waste material volumes are as follows:

- Wastebed 12: Area = 128.6 acres; Volume = 11.4×10^6 yd^3
- Wastebed 13: Area = 163.0 acres; Volume = 14.5×10^6 yd^3
- Wastebed 14: Area = 133.4 acres; Volume = 11.8×10^6 yd^3
- Wastebed 15: Area = 111.3 acres; Volume = 4.49×10^6 yd^3

Wastebeds 12-14 have remained wastebeds. Wastebed 13 was constructed on a former gravel quarry. The eastern half of Wastebed 15 is utilized by the Town of Camillus as a C&D landfill.

(ii) the types, quantities, physical state, locations, methods, and dates of disposal or release of wastes or the discharges of pollutants at or from the Site;

The wastebeds received the following wastes as described below.

- Wastebeds 9-11 received Solvay waste (as a slurry), brine purification sediments, boiler water purification wastes, and boiler bottom and fly ash between 1944 and 1968.
- Wastebed 12 began receiving waste between 1951 and 1959 and was in operation until 1972. The wastes materials included Solvay waste (as a slurry), brine purification sediments, treated mercury cell wastewater (1970 to 1972), boiler water purification wastes, boiler bottom and fly ash, Willis Avenue Plant wastewater, and asbestos slurry (1968 to 1972). Onondaga County placed sanitary sludge in trenches on top of wastebed between the summer of 1986 and January 1987.
- Wastebed 13 was in operation between 1973 and 1985. The waste materials included Solvay waste (as a slurry), brine purification sediments, boiler water purification wastes, boiler bottom and fly ash, asbestos slurry (1973 to 1985), and treated mercury cell wastewater (1973 to 1977). Large volumes of wastebed overflow were unaccounted for during the initial filling operations and were presumed to have discharged to underlying gravels.
- Wastebed 14 began receiving waste between 1951 and 1959 and was in operation until 1985. The waste materials included Solvay waste (as a slurry), brine purification sediments, boiler water purification wastes, boiler bottom and fly ash, Willis Avenue Plant wastewater, asbestos slurry (1968 to 1985), and treated mercury cell wastewater (1970 to 1977).
- Wastebed 15 was in operation between 1975 and 1985 and received the following waste materials: Solvay waste (as a slurry), brine purification sediments, treated mercury cell wastewater (1975 to 1977), boiler water purification wastes, boiler bottom and fly ash, Willis Avenue Plant wastewater, and asbestos slurry (1975 to 1985). The western portion of Wastebed 15 received C&D materials from the demolition of Allied Chemical's main plant area, and the eastern half received layer of sewage treatment plant sludge in 1986. The eastern portion has also been used as the Town of Camillus C&D landfill since 2001.

Shallow groundwater migrated through the wastebeds and discharged as leachate to on-site drainage ditches, Ninemile Creek, Geddes Brook, and neighboring properties. The LCCS was constructed to intercept the leachate from Wastebeds 12 through 15, with subsequent improvements to the system on Wastebeds 12 and 14 in June 2007 and December 2007, respectively. Two collection trenches were installed along the southern, eastern, and western perimeter of Wastebeds 9/10 to collect leachate in 2005.

(iii) a description of current Site activity (*i.e.*, fencing, posting, *etc.*); and

Wastebeds 12-15 are surrounded by 8-ft chain-link fence and can be accessed via a locked gate off of Gere Lock Road. Wastebed 15 (the current Camillus C&D landfill) can be accessed through the landfill entrance at Thomas Avenue/Belle Isle Road intersection. Wastebeds 9-11 is surrounded by 8-ft chain-link fence on three sides and bounded by Ninemile Creek on the fourth side. These wastebeds can be accessed by two locked gates; one gate is located at the end of Pump House Road and the second gate is located off of Armstrong Road. Portions of the Surrounding Affected Area are currently not owned by Honeywell and are not subject to security by Honeywell.

(iv) the names and addresses of all persons responsible for disposal of hazardous wastes or hazardous substances, including the dates of such disposal and any proof linking each person responsible with the hazardous wastes identified.

Per Section 8(C) of the Wastebeds 9-15 Consent Order, Section 8(C), the wastebeds are listed as a Class C site in the NYS Registry of Inactive Hazardous Waste Disposal Sites. A Class C site is classified as a site that "does not present a significant threat to the environment or public health – action may be deferred" under ECL article 27 Title 13. Compliance issues associated with closure of the Site were transferred to the Division of Water and Division of Solid and Hazardous Waste Materials.

The disposal of waste materials at the Site was performed by three known organizations:

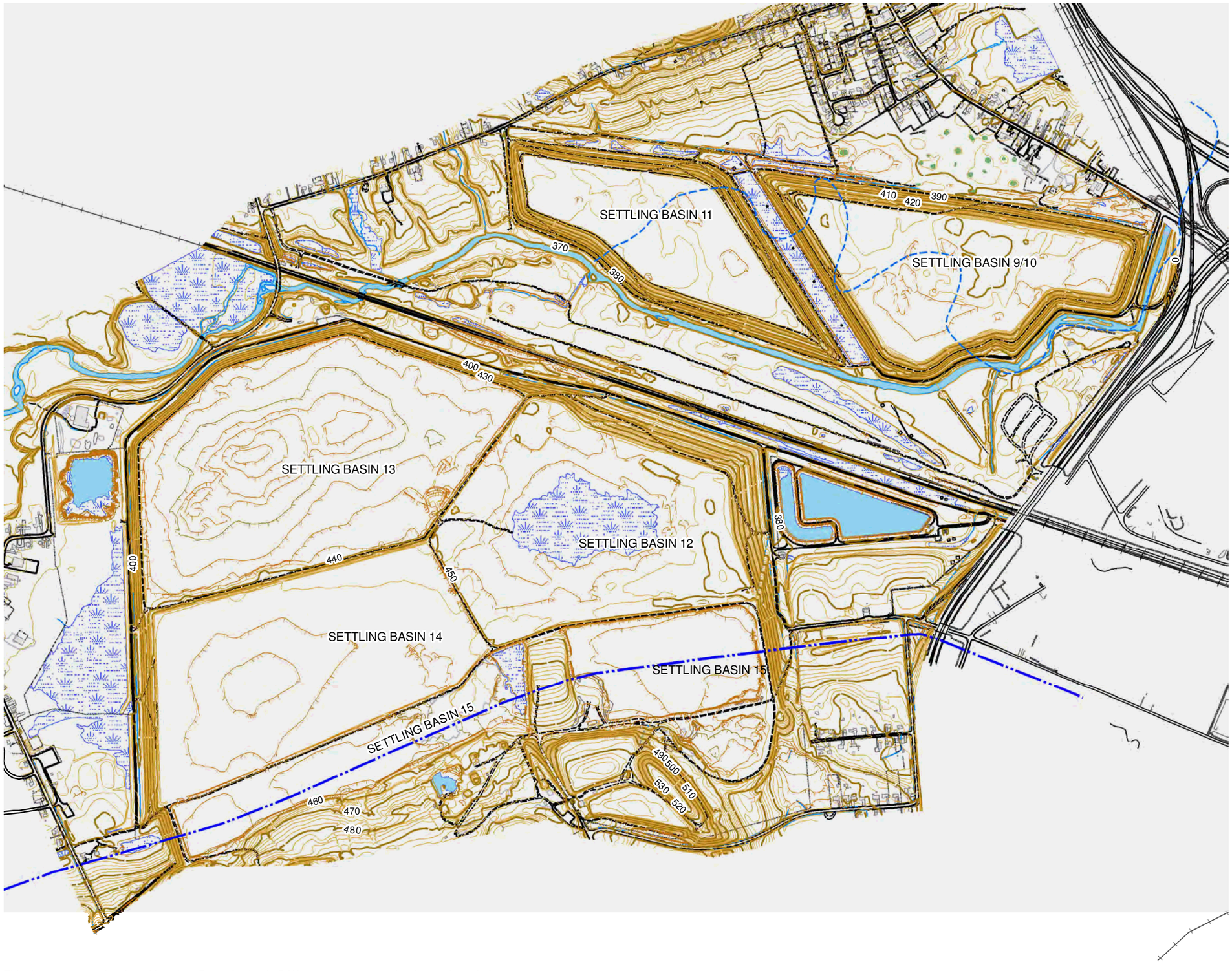
1. Allied Chemical Corporation (predecessor to Honeywell International),
2. Town of Camillus,
3. Onondaga County, and

Fill material placed in the Erie Canal is from unknown sources. There are no historic records regarding the placement of this fill.

ATTACHMENT 1

Topographic Survey

FIGURE 3



N

LEGEND

CONTOUR INTERVAL

- 10-FT
- 10-FT DEPRESSION
- 2-FT
- 2-FT DEPRESSION

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
WORK PLAN
GEDDES AND CAMILLUS, NY

TOPOGRAPHIC MAP

0 500 1,000 2,000
Feet

JANUARY 2010
1163.46962

O'BRIEN & GERE

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PATH: I:\Honeywell.1163\46962.Wastebeds 9-15\Docs\DWG\MXD\Topo_11X17size.mxd
NAME: MillerMR
DATE: 1/24/2011 10:51:36 AM

ATTACHMENT 2

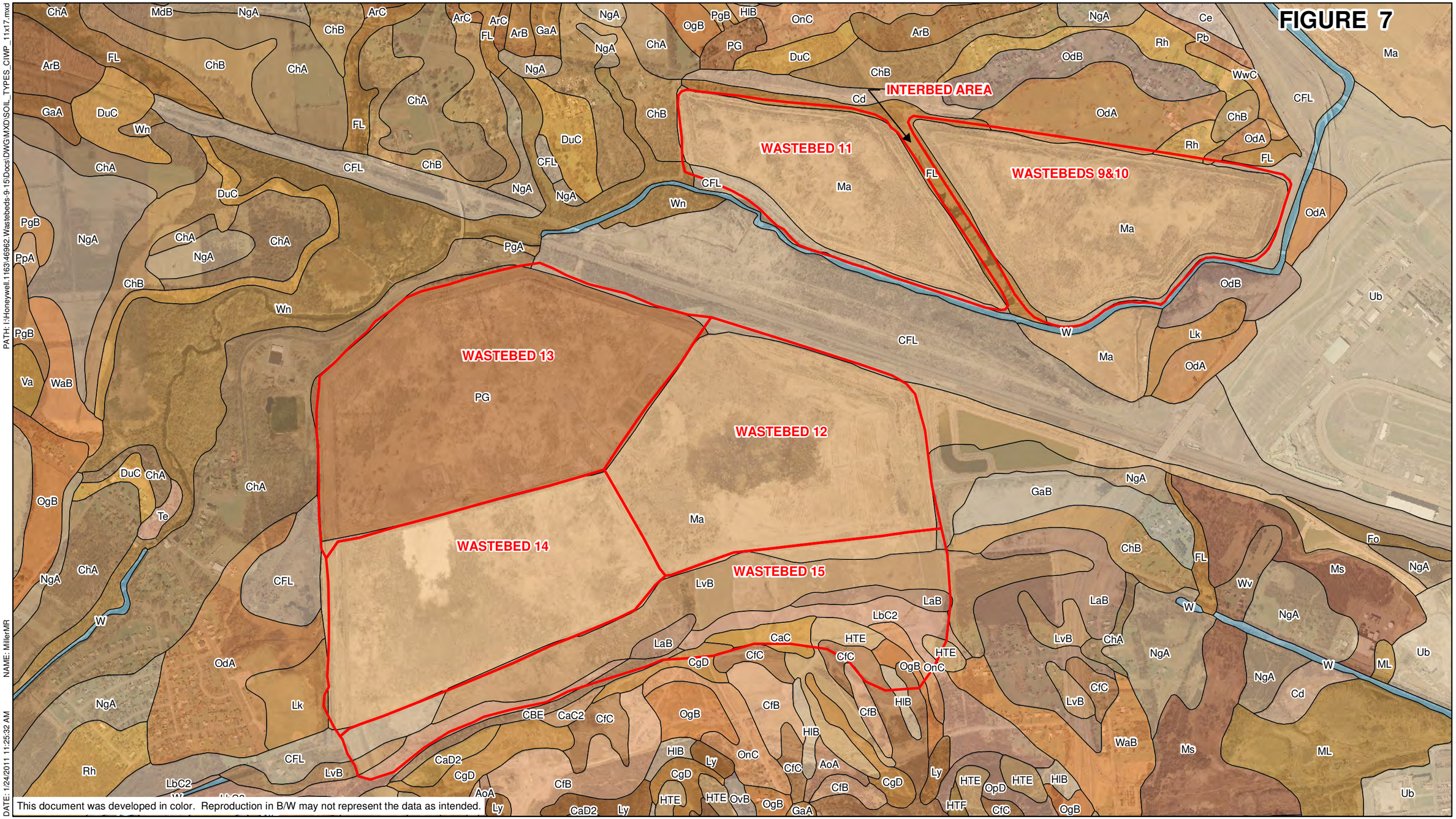
Surface Soil Survey

PATH: I:\Honeywell.1163\46962.Wastebeds-9-15\Docs\DWG\MXD\SOIL_TYPES_CIWP_11x17.mxd

NAME: MillerMR

DATE: 1/24/2011 11:25:32 AM

FIGURE 7



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LEGEND

- CFL — SOIL TYPE
- SITE BOUNDARY

HONEYWELL
WASTEBEDS 9-15 AND SURROUNDING AFFECTED AREA
CLOSURE INVESTIGATION WORK PLAN
GEDDES & CAMILLUS, NY

0 500 1,000 2,000 3,000 4,000
Feet

N

SURFACE SOIL SURVEY

JANUARY 2011
1163.46962

O'BRIEN & GERE

ATTACHMENT 3

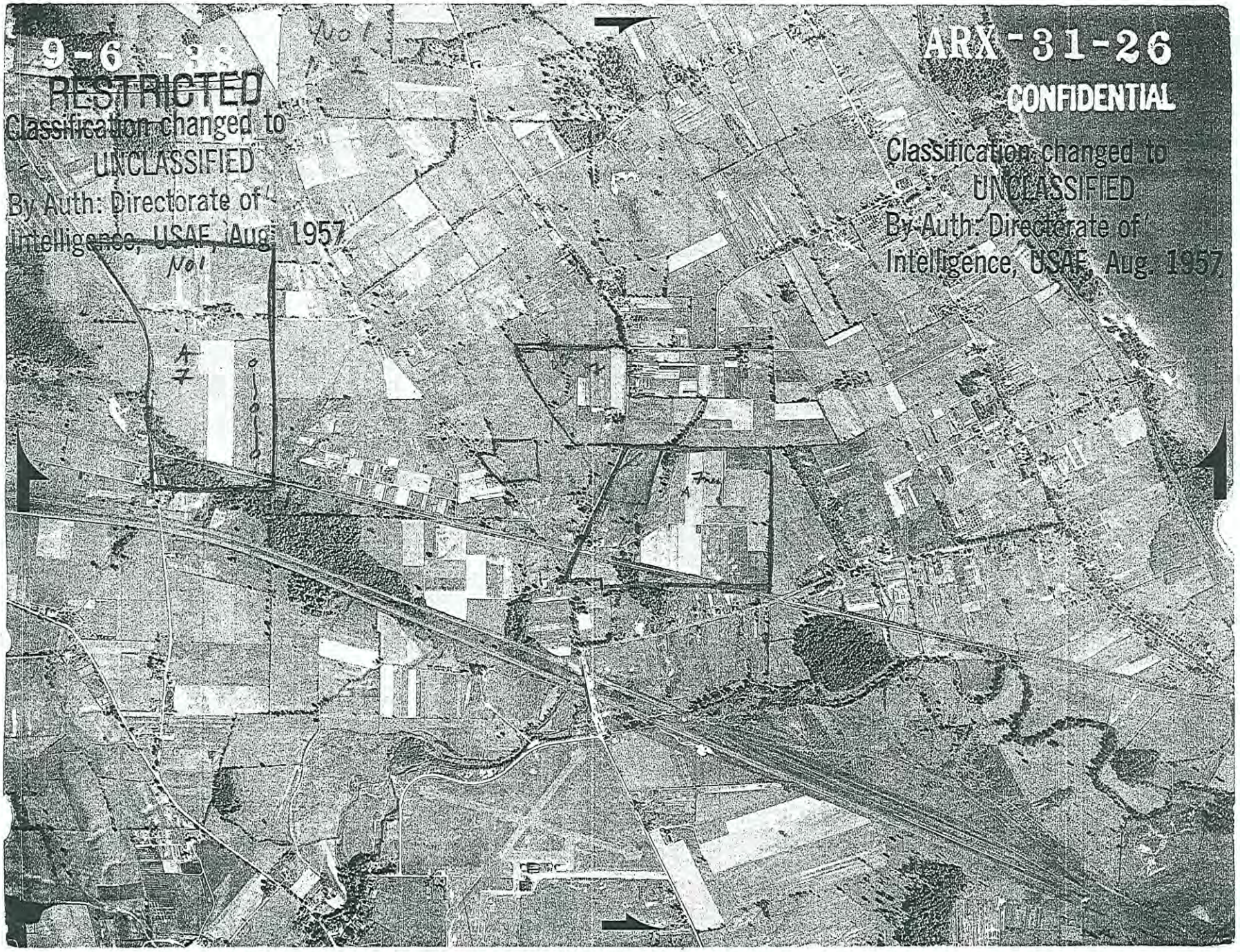
Aerial Photographs

1938 Aerial Photographs


9-5-38
CONFIDENTIAL
Classification changed to
UNCLASSIFIED
By Auth: Directorate of
Intelligence, USAF, Aug. 1957
ARX 30-108
CONFIDENTIAL
Classification changed to
UNCLASSIFIED
By Auth: Directorate of
Intelligence, USAF, Aug. 195


9-5-58
Classification changed to
UNCLASSIFIED
By Auth: Directorate of
Intelligence, USAF, Aug. 1957
Classification changed to
UNCLASSIFIED
By Auth: Directorate of
USAF, Aug. 1957

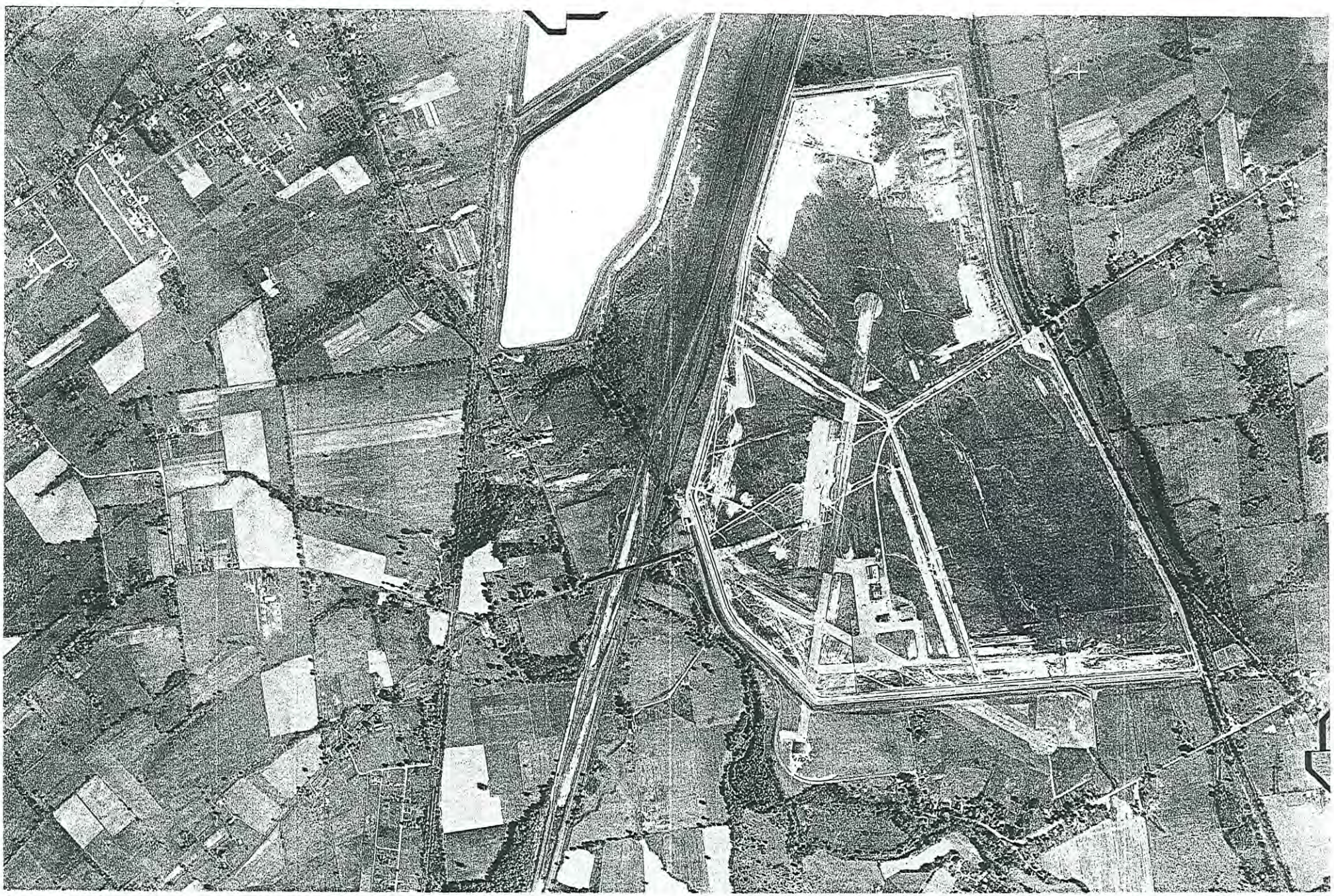

9-6-58
RESTRICTED
Classification changed to
UNCLASSIFIED
By Auth: Directorate of
Intelligence, USAF, Aug. 1957
AR 380-5
CONFIDENTIAL
Classification changed to
UNCLASSIFIED
By Auth: Directorate of
Intelligence, USAF, Aug. 1957


9-6
RESTRICTED
Classification changed to
UNCLASSIFIED
By Auth: Directorate of
Intelligence, USAF, Aug. 1957
ARX-31-26
CONFIDENTIAL
Classification changed to
UNCLASSIFIED
By Auth: Directorate of
Intelligence, USAF, Aug. 1957

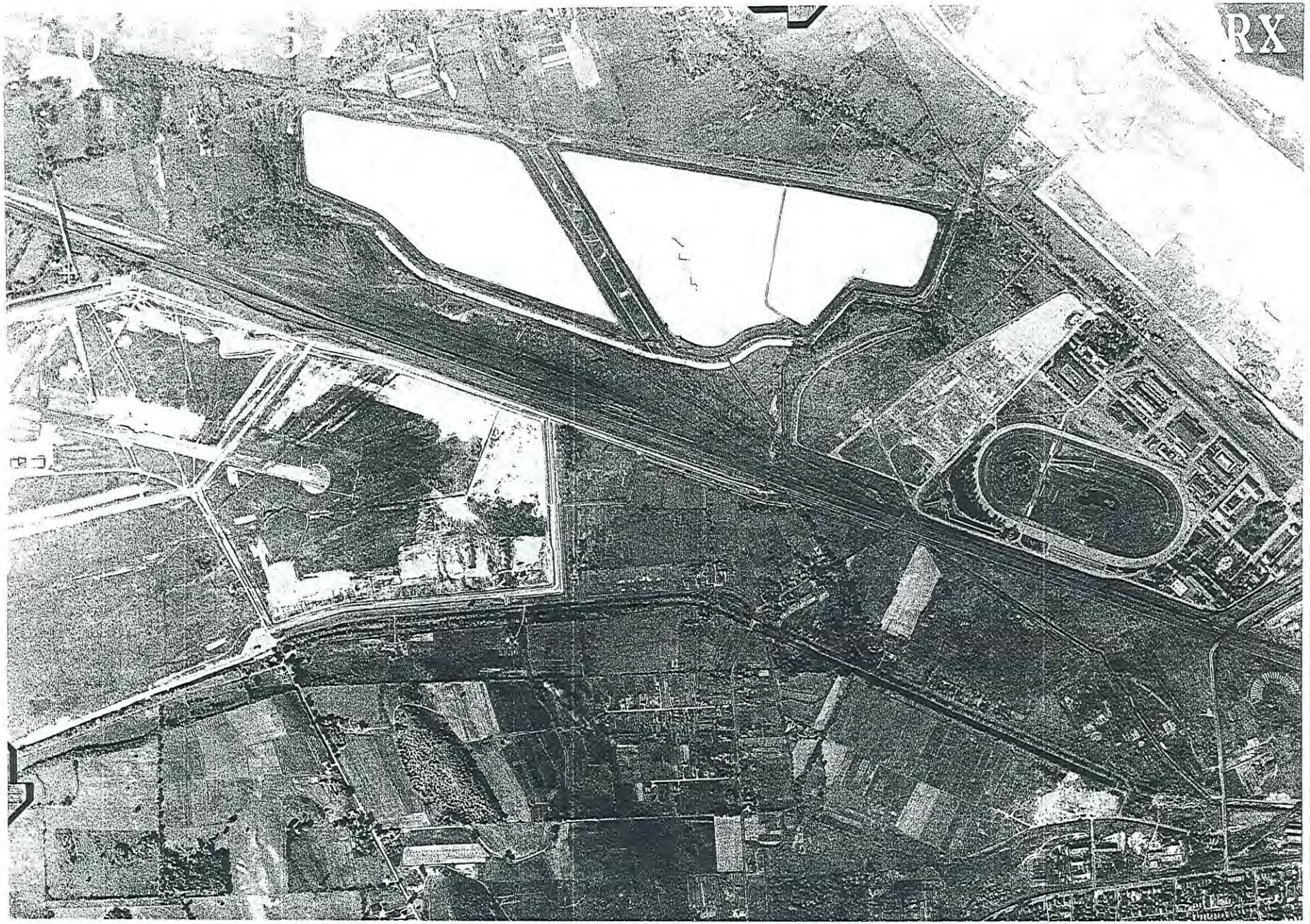

9-6-38
RESTRICTED
Classification changed to
UNCLASSIFIED
By Auth: Directorate of
Intelligence, USAF, Aug. 1957
APR-31-37

1951 Aerial Photographs

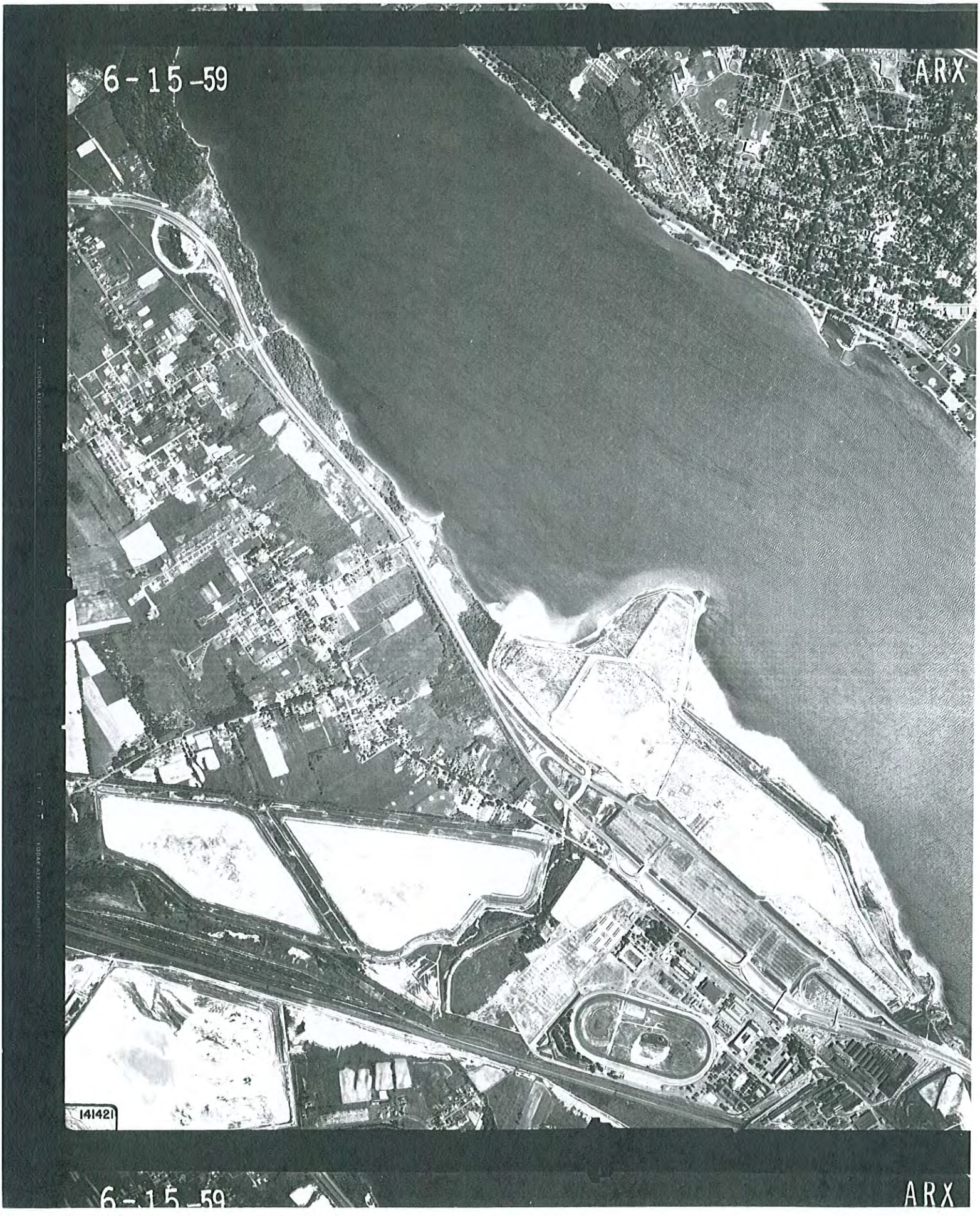
10-5-51 ARX-2H-58



10-5-51 ARx - 214 - 86

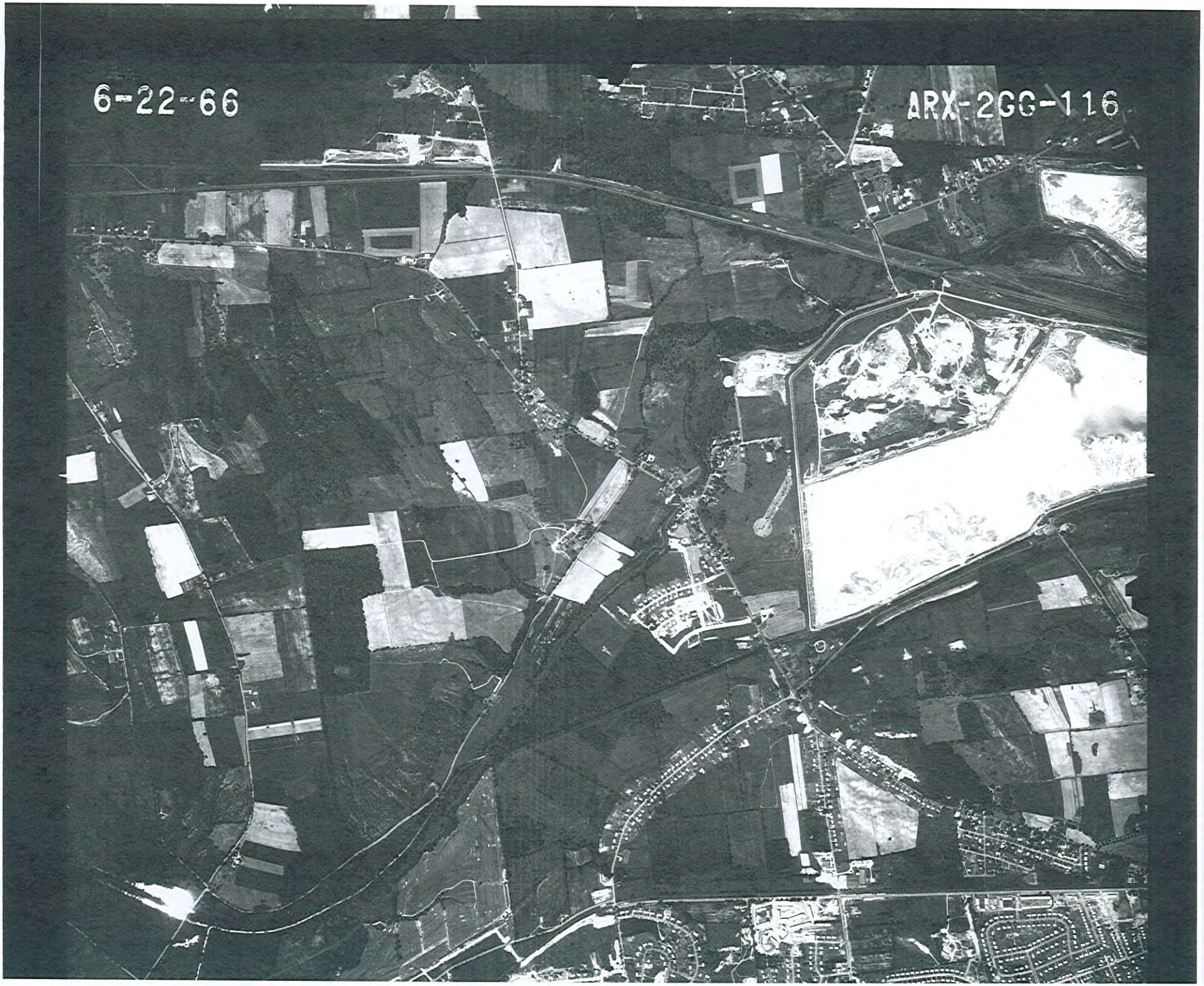


1959 Aerial Photographs


6-15-59
ARX
141421
6-15-59
ARX


5-31-59
ARX-3V-64
KODAK AEROGRAPHIC SHEET FILM 2414
KODAK AEROGRAPHIC SHEET FILM 2414

1966 Aerial Photographs


6-22-66
ARX-2GG-116


6-22-66
ARX-2GG- 73

1972 Aerial Photograph


5-12-72
2 42
CS-SWG

1978 Aerial Photograph


1 1 6
9-13-78
USDA
40
36067
178-89

1986 Aerial Photograph


4-14-86 233-T-1 4370-5 HAP 85

1990 Aerial Photograph


8-2-90
USDA
40
36000
990-103

1994 Aerial Photograph


8042-80
4-22-84

ATTACHMENT 4

Property Survey

FIGURE 1

PATH: I:\Honeywell.1163\44146.Settling-9-15-B\Docs\DWG\MXD\SB9-15_Owners.mxd

BELL ISLE
BELL ISLE
BELL ISLE CEMETERY
ALLIED CORP
SETTLING BASIN 11
ALLIED CORPORATION
ALLIED CORP
SETTLING BASIN 9/10
ALLIED SIGNAL INC
ALLIED CORPORATION
HONEYWELL
DIVERSIFIED DEVELOPERS
ALLIED CORPORATION
ALLIED CORPORATION
SETTLING BASIN 13
HONEYWELL
SETTLING BASIN 12
ALLIED SIGNAL INC
ALLIED CORPORATION
ALLIED CORPORATION
ALLIED CORPORATION
SETTLING BASIN 14
SETTLING BASIN 15
ALLIED CORPORATION
ALLIED CORPORATION
ALLIED-SIGNAL INC
ALLIED SIGNAL INC
ALLIED CORPORATION
ALLIED CORPORATION
ALLIED CORP
ALLIED-SIGNAL INC
ALLIED SIGNAL INC

DATE: 9/18/2009 2:32:03 PM

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LEGEND

PARCEL OWNER

- ALLIED CORP
- ALLIED CORPORATION
- ALLIED SIGNAL INC
- ALLIED-SIGNAL INC
- HONEYWELL
- BELLE ISLE
- DIVERSIFIED DEVELOPERS

HONEYWELL
SETTLING BASINS 9-15

PARCEL OWNERS

0 500 1,000 2,000 3,000 4,000
Feet

N

APRIL 2009
1163.44146

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FIGURE 3A

PATH: I:\Honeywell.1163\44146.Settling-9-15-B\Docs\DWG\MXD\SB9-15_Owners_North_A.mxd

KILPATRICK BEATRICE
DUNHAM JOHN JR &
DUROCHER ARNOLD M
FATCHERIC GERTRUDE D
LEWIS LAWRENCE J
SCHMITTE GLENN
AVERY JOSEPH
REYNOLDS DONALD E
ROBERTS JOHN C
AVERY JOSEPH M
ADAMS, KENNETH
DEFIO NICHOLAS A
FREY FRED J
KNOBLOCK TERRY W
BANKEY WILLIAM
SMOLEN HOMES D/B/A/
DULASKY STEVEN
STOUT MICHAEL
COUNTY OF ONONDAGA
GALKA MARY
COUNTY OF ONONDAGA
WAWREK ROBERT
COUNTY OF ONONDAGA
FREY FRED J
ROCHE DAVID
BELLE ISLE
BARFIELD ADABELLE
ROCHE DAVID
BELLE ISLE
AMBOY BELLE ISLE UNITED
RANALLI MARIO
BARFIELD JAMES C
SECOND SOCIETY OF
BELLE ISLE CEMETERY
EDISON JAMES E
TREELANDERS TREE SERVICE
RANALLI MARIO EDISON JAMES E
CARPENTER GERALD A
CORRENTE JAMES
BURNS HENRY J
PONTELLO PATRICK M JR
ALLIED CORPORATION
ALLIED CORPORATION
ALLIED CORPORATION
DIVERSIFIED DEVELOPERS
ALLIED CORPORATION
GRYZIEC RICHARD
SEITER CYNTHIA
PADRAO JOAQUIM D
CASTRO TRISHA A
SPILLETT THERESA ANN
WHEELOCK ANDREW L
GUINTA TIMOTHY A
WHEELOCK ANDREW L
WHEELOCK AVERY D
TESTA FRANK
BARFIELD JAMES C
WHEELOCK AVERY H
POLIFRONI JOSEPH
POLIFRONI JOSEPH
KESLER JOHN M
WHEELOCK-WARD ANGELICA L
POLISH NATIONAL
HONEYWELL
CORRENTE TIMOTHY J
WILSON DEBRA L ETAL
CORRENTE ROSS
WHIDDEN JANET E
ESPOSITO DOREEN R
ALLIED CORP
COUNTY OF ONONDAGA
SETTLING BASIN 11
ALLIED CORP
HYDE JAMES F JR
NIAGARA MOHAWK POWER CORP
HYDE JAMES F JR
NIAGARA MOHAWK POWER CORP
WHITE PAULA & FRANK
GRUNINGER
CHAEL
OUR LADY OF PEACE
NUDO LOUIS
RAZZANO COSAMINA TRUST
RANALLI ANN
MOLANARE ROBT & MARGARET
MOLTA EMIL A & NORMA LUCIO SCOTT
MICHALSKI EDMUND ANNA MARIE ZIEMBA TRUST
LEGARE ANDRE & MARGARET
KRZYKOWSKI PATRICK M
BOCCHINO RICHARD
O BRIEN TERRY
MOONEY JAMES M
GRIFFO ERNEST
DELIA JAMES & GRACE
SMELKOFF LAURA M
MALETTE KENNETH E
GRABOWSKI JOHN P JR
SMELKOFF LAURA M
HOE DENNIS M
SLADICK FRANCIS
SMELKOFF LAURA M
KELLY CALLURA
GRABOWSKI JOHN P
COLLELLI JOHN
SLADICK ROSE H
VONA GERMANIO
NIAGARA MOHAWK POWER CORP
HUGHES LARRY D JR
CORRENTE ROSS SR
ALLIED CORP
POPE FRANK
WUSTER SUSAN
NIAGARA MOHAWK POWER CORP
MEADE JACQULINE
WOLNIK DAVID R
CORRENTE PHILLIP J
BANDERA CHRISTOPHER J
BOHOSIAN JEANNIE C
SLADICK ROSE H
BANDOBLU JOHN
POPE FRANK G & HARRIET S
POPE FRANK G
BOCCHINO ANTHONY
MAGNOLIA PIPE LINE
ALLIED SIGNAL INC
NIAGARA MOHAWK POWER CORP
NIAGARA MOHAWK POWER CORP

DATE: 9/18/2009 3:37:20 PM

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LEGEND

PARCEL OWNER

- ALLIED CORP
- ALLIED CORPORATION
- ALLIED SIGNAL INC
- ALLIED-SIGNAL INC
- HONEYWELL
- BELLE ISLE
- DIVERSIFIED DEVELOPERS

HONEYWELL
SETTLING BASINS 9-15

0 225 450 900 1,350 1,800
Feet

N

PARCEL OWNERS

APRIL 2009
1163.44146

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FIGURE 3B

PATH: I:\Honeywell.1163\44146.Settling-9-15-BiDocs\DWG\MXD\SB9-15_Owners_North.mxd

POZZI DAVID
WHITE LEONARD E
HANEY MAUREEN
PTAK JOSEPH L
BOISE THOMAS R
MULLIGAN JOHN K
GAWORECKI WALTER J JR
KRZYWYJ MICHAEL
KRZYWYJ MICHEL
COLEMAN WILLIAM E
KOWALIK LEONID & ANNA
HYDE RUSSELL
OUR LADY OF PEACE
GROBSMITH MICHAEL
WEMES MAYNARD
GRUNINGER ROBERT W
FRACHETTI CYNTHIA M
KUSS JOANNE E
HYDE JAMES F JR
LEGARE ANDRE & MARGARET
NUDO LOUIS
PIANO STEVEN
DEFIO NICHOLAS A
NIAGARA MOHAWK POWER CORP
WHITE PAULA & FRANK
RAZZANO COSAMINA TRUST
NUDO LOUIS
TUFF ERNEST J
HYDE JAMES F JR
NIAGARA MOHAWK POWER CORP
RANALLI ANN
MOLANARE ROBT & MARGARET
SGROI JOHN & CONSTANCE
MOLTA EMIL A & NORMA
THEISEN CLAYTON
MONTICELLI JAMES H &
MICHALSKI EDMUND ANNA MARIE ZIEMBA TRUST
PIEDMONTE JEFFREY M
KLABEN FRIEDA
PANGARO CHARLES
THEISEN CLAYTON
GRYZIEC RICHARD
KOLCESKI THEODORE P
KRZYKOWSKI PATRICK M
BOCCHINO RICHARD
HAMM WAYDE C
O BRIEN TERRY
MOONEY JAMES M
PRZEPIORA JOHN J
HAINES EDWARD R
DELIA JAMES & GRACE
SMELKOFF LAURA M
GRIFFO ERNEST
FAES JOSEPH & EDITH
GOSSON MARLENE L
BACOLA MARGHERITA D
GRABOWSKI JOHN P JR
SMELKOFF LAURA M
HOE DENNIS M
WALKER JAMES P
GOSSON MARLENE L
SLADICK FRANCIS
SMELKOFF LAURA M
KELLY CALLURA
MAHONEY HAROLD
ALBRIGO RICHARD
VALERINO ANTOINETTE
WILSON DEBRA L ETAL
GRABOWSKI JOHN P
COLLELLI JOHN
PRINDLE WILLIAM A
SIEKLUCKI MICHAEL S
DELUCIA ROBERT T
HACKETT DOROTHY SMELKOFF
SLADICK ROSE H
GEHM JEFFREY W
ZEMSTA BARBARA
BERLINSKI HELEN
METOT AMELIA C
SEITER CYNTHIA
NIAGARA MOHAWK POWER CORP
VONA GERMANIO
KLOIBER JAMES V
CASE GEORGE
VALERINO TONY & MARCIA
CORRENTE ROSS
CORRENTE ROSS SR
ALLIED CORP
POPE FRANK
WUSTER SUSAN
GILBERT TERRY
LEONARDO HARRY JR
CANESTRARE PASQUALE
CLANCY THOMAS F
GERMANO STEVEN J
WHIDDEN JANET E
ESPOSITO DOREEN R
NIAGARA MOHAWK POWER CORP
MEADE JACQULINE
WOLNIK DAVID R
TOWN OF GEDDES
CANESTRARE PASQUALE
DORING SUSAN
POMIETLASZ DANIEL J
CORRENTE PHILLIP J
NICOLINI TERRY
SMITH KEVIN D
NAPLES DOLORES
POPE STACEY L
DORING EDWARD J
TUCKER DARRYL K
CORRENTE TIMOTHY J
KERR CHRISTOPHER M
ZAIKA WILLIAM T
CLISSON CHERYL
DAILY DONALD D
GERMANO STEVEN J
PONTO PATRICK
BOHOSIAN JEANNIE C
DIFLORIO VINCENT
KLABEN ROBERT J
PETROVETS PAVEL
COOK BARRY L
SPILLETT THERESA ANN
SLADICK ROSE H
BANDOBLU JOHN
CAMPBELL JOHN B
WRIGHTSON DONNA M
LASINSKI ANTHONY
SUROWICZ HENRY J
LUBER INC
ALLIED CORP
SMELKOFF LAURA M
KORSZENEWSKI LIVING
RAMSING WILLIAM H
COUNTY OF ONONDAGA
POPE FRANK G & HARRIET S
GUERESCHI JOSEPH & MARY
POPE FRANK G
POPE WILHELMINA P
SUCHON EDWARD S
BOCCHINO ANTHONY
POPES GROVE INC
POPE FRANK G
MAGNOLIA PIPE LINE
POPE WILHELMINA P
KEEGAN ENTERPRISES
POPE WILHELMINA P
POPE FRANK G
KEEGAN ENTERPRISES
POPE FRANK G
POPE FRANK G
KEEGAN ENTERPRISES
ROBERTS LOUISE
SZCZECH JOHN E
COUNTY OF ONONDAGA
POPES GROVE INC
SETTLING BASIN 11
ALLIED CORPORATION
ALLIED CORP
NIAGARA MOHAWK POWER CORP
NIAGARA MOHAWK POWER CORP
ALLIED SIGNAL INC
SETTLING BASIN 9/10
HONEYWELL
DATE: 9/18/2009 2:57:47 PM

COUNTY OF ONONDAGA
BIGGS ROBERT F
DIXON ROBERT M
ANTOLINI LILLIAN
SULLIVAN JOHN C
SCOTT JAMES G
REAGAN J WILLIAM
ANTOLINI LILLIAN
FRANKLIN MARK L
YAKDBCHUK LEONID
REAGAN RICHARD T
FITZGERALD HUGH
KOLAKOWSKI ALBERT
BS ENTERPRISES LLC
BEZHENAR MIKHAIL
BS ENTERPRISES LLC
VALERINO MARGARET
JBM LIMITED LIABILITY
JBM LIMITED LIABILITY
VALERINO LOUIS A III
VALERINO LOUIS A III
METRAS LOUISE & ETAL
MERRILL HAROLD & RITA
ROSE & EDWARD DORING SR
HACKETT DOROTHY SMELKOFF
METOT AMELIA C
VALERINO TONY & MARCIA
CLANCY THOMAS F
GERMANO STEVEN J
DORING SUSAN
POMIETLASZ DANIEL J
DORING EDWARD J
TUCKER DARRYL K
GERMANO STEVEN J
PONTO PATRICK
PETROVETS PAVEL
COOK BARRY L
SUROWICZ HENRY J
LUBER INC
GUERESCHI JOSEPH & MARY
POPE WILHELMINA P
SUCHON EDWARD S
POPE FRANK G
KEEGAN ENTERPRISES
KEEGAN ENTERPRISES
KEEGAN ENTERPRISES
COUNTY OF ONONDAGA

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LEGEND

PARCEL OWNER

- ALLIED CORP
- ALLIED CORPORATION
- ALLIED SIGNAL INC
- ALLIED-SIGNAL INC
- HONEYWELL
- BELLE ISLE
- DIVERSIFIED DEVELOPERS

HONEYWELL
SETTLING BASINS 9-15

0 225 450 900 1,350 1,800
Feet

N

PARCEL OWNERS

APRIL 2009
1163.44146

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FIGURE 4

PATH: I:\Honeywell.1163\44146.Settling-9-15-BIDocs\DWG\MXD\SB9-15_Owners_South.mxd

DATE: 9/18/2009 3:07:30 PM

ALLIED SIGNAL INC
ALLIED CORPORATION
NIAGARA MOHAWK POWER CORP
STATE OF NEW YORK
HANLIN GROUP INC
CHARLES A SMITH TRUST
CHARLES A SMITH TRUST
KACZMAREK ARTHUR
COOPER STEVEN L
SMITH GARY D KACZMAREK ARTHUR
SMITH CHARLES A TRUST WHEELER OSWALD B
TURNER MARGARET A
FLASK II JOHN L
FLASK JOHN L 11
SMITH ANNA P
HANLIN GROUP INC
FRACHETTI DAVID J SMITH FRANK P & PAUL F
FRACHETTI DAVID J
MARKOW JOHN
FRACHETTI DAVID J
ALLIED CORPORATION
FRACHETTI DAVID J SAWKA MICHAEL
BONGEVENGO JOHN A FRACHETTI DAVID J FRACHETTI DAVID J
HANLIN GROUP INC
FRACHETTI DAVID J BYRNE MARJORIE FRACHETTI DAVID J
BYRNE MARJORIE FRACHETTI DAVID J
BIANCHI JUDITH
SAWKA MICHAEL
HANLIN GROUP INC
FREITAS DANIEL E
POTOTSKY STEPAN
HANLIN GROUP INC
BAUNEE MARTHA
POTOTSKY STEPAN
GATES JOHN
MARKOW JOHN
FREITAS DANIEL E
POTOTSKY STEPAN
POTOTSKY STEPAN
MARKOW JOHN DANISZEWSKI EDWARD
DANISZEWSKI EDWARD P
POTOTSKY STEPAN & VITALY
HANLIN GROUP INC MALYS EDWARD
KOMUDA JANE C
FABRIZIO FRANK
KUSHIN KEVIN P RYAN JAMES J &
MALYS EDWARD & ANN
HANLIN GROUP INC
RYAN JAMES J
FIDURA STELLA RUTH
KOMUDA JANE C
GREENALL CYNTHIA A &
ANSON ROGER W STYRZO NICHOLAS & OLGA
GRAVINA DAVID A STYRZO NICHOLAS
ANTHONY KENNETH M II
KARPINSKI WANDA P
YAREMA MICHAEL GREENALL CYNTHIA A
NIAGARA MOHAWK POWER CORP
FISCHEL SHUBA HELEN
KOMUDA TERRI M
ZALEWSKI STEPHEN P
KOMUDA JOANNE
HENSLEY JAMES A
COZAD CLIFFORD
ALLIED CORPORATION
ALLIED SIGNAL INC
KOTYRA CHESTER
BROWN DONALD J &
BROWN DONALD J
LESTER JOHN
WINTER MARLENE AS TRUSTEE
NIAGARA MOHAWK POWER CORP
VILLAGE OF SOLVAY
NIAGARA MOHAWK POWER CORP
NIAGARA MOHAWK POWER CORP
ALLIED CORPORATION
ALLIED CORPORATION
ALLIED CORPORATION
NIAGARA MOHAWK POWER CORP
LOWE ARTHUR W
WILCZYNSKI JOSEPH R
LENWEAVER ROBERT E
GABRIEL CRAIG A
COLEMAN RICHARD A
CZYZ FRANK
LUNDY GEORGE E
LENNON DOLORES
HARKE HARRY H & DONNA M
MIKLAJCYK STEVE
ALLIED CORPORATION
DELANY JENNIFER
PALLONE MICHAELA
BOYKO VITALIY
LIEPKE RALPH P
FEYALKOWSKI BEVERLY MARLOWE JOHN K
BORTE CHARLES K
BAUSMAN DONALD A LAMANNA BERNARD
TOWN OF CAMILLUS
TOWN OF CAMILLUS
NICOLINI LOUIS
CAMPBELL HUGH
BROSTEK MARION
CAZZOLLI ROBERT
DE STEFANO JOHN R
AIELLO CATHERINE
DELUCIA ROBERT J
MASICA MICHAEL
VANCOTT ALFRED J
CARNEGIE THOMAS W.
DE SANTIS PAMELA J AS
HAGUE DOUGLAS P
MCMANUS SHAWN T
ALLIED CORP
FARELLA ANTHONY R
ALLIED CORPORATION
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EGANOWSKI MARK T

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LEGEND

PARCEL OWNER

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- BELLE ISLE
- DIVERSIFIED DEVELOPERS

HONEYWELL
SETTLING BASINS 9-15

0 225 450 900 1,350 1,800
Feet

N

PARCEL OWNERS

APRIL 2009
1163.44146

O'BRIEN & GERE

Appendix B

Ninemile Creek Tracer Test Field Logs (on CD at end of Appendices)

Test #1 Page 1 of 3

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	9/25/12	Personnel	Kramer - Trent
Site Name	Test-1 - Amboy to Camillus Pump	Weather	Sunny ~60's
Site Location	Wetlands/Camillus	Project #	48179

Test Information:

Stream Discharge (Q_s)	~10	cfs
Tracer Plateau Concentration (C_p)	~16	~~mg/l~~ ug/L
Tracer Injection Rate (Q_i)	~~175~~ ~550	ml/min
Tracer Concentration (C_i)	0.2x10^7	~~mg/l~~ ug/L
Injection Start Time	1123	
Injection Stop Time	1445	

Sample Location - CP-10	Elapsed Time (min)	Rhodamine Concentration (ug/L)	Temperature	pH	mS/cm @ Conductivity	ORP
Background 1130	~~7~~	-0.1	12.3	8.29	1.078	
1140	17	0.0	12.4	8.29	1.078	167
1150	27	0.1	12.5	8.30	1.079	158
1200	37	-0.2	12.5	8.30	1.079	153
1210	47	1.7	12.56	8.28	1.08	150
1218	55	7.1	12.63	8.25	1.08	148
1223	70	10.1	12.74	8.23	1.08	147
1238	75	11.7	12.75	8.21	1.08	146
~~1243~~ 1243	80	~~11.~~ 12.0	12.77	8.20	1.08	146
1250	87	13.2	12.8	8.17	1.08	145
1257	94	14.00	12.84	8.17	1.08	147
1306	93 / 103	15.00	12.91	8.22	1.08	145
1314	101 / 121	15.0	12.96	8.23	1.08	146
1322	109 / 129	14.7	12.99	8.24	1.08	145
1327	~~110~~ 114 / 134	15.3	12.99	8.24	1.08	144
1333	120 / 140	15.5	12.96	8.25	1.08	145
1338	125 / 145	15.8	12.93	8.27	1.08	144
1345	132 / 152	15.4	12.93	8.27	1.08	144
1350	137 / 157	15.8	12.93	8.26	1.08	143
1355	142 / 162	15.8	12.95	8.28	1.08	142
1400	147 / 167	15.9	12.98	8.28	1.08	142
1405	152 / 172	15.8	13.01	8.28	1.08	142
1410	157 / 177	15.9	13.02	8.28	1.08	141
1415	162 / 182	15.8	13.02	8.28	1.08	141
1421	168 / 188	16.2	13.01	8.28	1.08	140
1427	174 / 194	16.3	13.01	8.27	1.08	140
1434	181 / 201	16.0	12.99	8.27	1.08	140

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge	Q_s	l/s
C_p = Tracer plateau concetration	C_p	mg/l
Q_i = Tracer injection rate	Q_i	l/s
C_i = Tracer concentration	C_i	mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes: Logging YSI Readings every 10 min on meter - Start @ ~1126:30

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	9/25/12	Personnel	JWR, RJT, IRR, JAK
Site Name	Test #1 Amboy	Weather	~60° F Sunny
Site Location	Camillus	Project #	248127

Test Information:

Stream Discharge (Q_s)	40	cfs
Tracer Plateau Concentration (C_p)	~16	~~mg/l~~ ug/L
Tracer Injection Rate (Q_i)	~550	ml/min
Tracer Concentration (C_i)	0.2x10^7	~~mg/l~~ ug/L
Injection Start Time	1123	
Injection Stop Time	1415	

Sample Location	Elapsed Time (min)		Rhodamine Concentration (ug/L)	Temperature	pH	Conductivity	ORP
Background			16.0	13.00	8.27	1.08	140
1439	186	206	16.1	13.00	8.27	1.08	139
1445	192	212					~~139~~
1450	187	217	16.3	12.99	8.26	1.08	139
1455	192	222	16.5	12.97	8.26	108	139
1500	197	227	16.3	12.95	8.26	1.08	139
~~1505~~	202						
1510	207	237	16.3	12.94	8.26	1.08	~~1.38~~ 138
1515	212	242	16.3	12.95	8.26	1.08	~~138~~ 138
1520	217	247	16.4	12.94	8.26	1.08	138
1525	222	252	16.5	12.93	8.25	1.08	138
1530	227	257	15.3	12.91	8.26	1.08	138
1535	232	262	13.3	12.90	8.25	1.08	138
1540	237	267	11.4	12.92	8.25	1.08	137
1545	242	272	7.8	12.9	8.25	1.08	137
1550	247	277	6.5	12.88	8.25	1.08	137
1555	252	282	4.7	12.86	8.25	1.08	137
1600	257	287	3.9	12.80	8.25	1.09	136
1605	262	292	2.7	12.84	8.25	1.09	136
1610	267	297	1.8	12.81	8.25	1.09	136
1615	272	302	2.0	12.78	8.25	109	136

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge — Q_s — l/s
C_p = Tracer plateau concetration — C_p — mg/l
Q_i = Tracer injection rate — Q_i — l/s
C_i = Tracer concentration — C_i — mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

Test #1

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	9/25/12	Personnel	RST/NTK
Site Name	9-15 Enclosure	Weather	60's Sunny
Site Location	NMC	Project #	48127

Test Information:

Stream Discharge (Q_s)	40	cfs
Tracer Plateau Concentration (C_p)	~6	~~mg/l~~ ug/L
Tracer Injection Rate (Q_i)	~~175~~ ~550	ml/min
Tracer Concentration (C_i)	0.2X10^7	~~mg/l~~ ug/L
Injection Start Time	1123	
Injection Stop Time	1445	

Sample Location	~~Elapsed~~ Time (min)	Rhodamine Concentration (ug/L)	Temperature	pH	Conductivity	CRP
Background	1520		12.30	8.31	1.069	28
~~10 L~~ ~~10M~~						
~~10 M~~ ~~10M~~ 10m	1355	—	12.86	8.31	1.069	21.7
~~10 R~~ ~~9M~~ 9m	1405		12.78	8.29	1.070	24.7
~~09 L~~ ~~8M~~ 8m	1409		12.70	8.33	1.070	24.7
~~09 M~~ ~~7M~~ 7m	1414		12.53	8.30	1.070	26
~~09 R~~ ~~6M~~ 6m	1419		12.48	8.33	1.070	31
~~08 L~~ ~~5M~~ 5m	1426		12.44	8.30	1.070	30
~~08 M~~ 4m	1431		12.41	8.35	1.070	26.5
~~08 R~~ 3m	1435		12.39	8.26	1.070	23.3
~~07 L~~ 2m	1438		12.37	8.28	1.071	23.0
~~07 M~~ 1m	1445		12.34	8.26	1.071	25
07 R						
06 L						
06 M						
06 R						
05 L						
05 M						
05 R						
04 L						
04 M						
04 R						
03 L						
03 M						
03 R						

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge	Q_s	l/s
C_p = Tracer plateau concetration	C_p	mg/l
Q_i = Tracer injection rate	Q_i	l/s
C_i = Tracer concentration	C_i	mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

Facing upstream - Left = Left Bank, M = Middle, R = Right Bank - Facing upstream

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	9/25/12	Personnel	JWB, RJT, NTK, JAK, TBO
Site Name	SB915	Weather	65°F Sunny
Site Location	Amboy Damn	Project #	48127

Test Information:

Stream Discharge (Q_s)	40	cfs
Tracer Plateau Concentration (C_p)		mg/l
Tracer Injection Rate (Q_i)		ml/min
Tracer Concentration (C_i)	2000	mg/l

Time	Sample Location	ug/L Rhodamine Concentration	°C Temperature	pH	mS/cm Conductivity	Turbidity (NTU)
1120	Background @ Inj. Pt	0.0	11.80	8.00	0.810	—

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge	Q_s	l/s
C_p = Tracer plateau concetration	C_p	mg/l
Q_i = Tracer injection rate	Q_i	l/s
C_i = Tracer concentration	C_i	mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location

Q_s = Stream discharge at sampling location

Q_{gw} = Groundwater discharge at sampling location

n = selected sampling location

n-1 = sampling location upstream of selected sampling location

Notes:

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	9/25/12	Personnel	JWB, RJT, MTK, JAK
Site Name	SR415	Weather	~65 of Sunny
Site Location	Amboy Damp	Project #	48127

Test Information:

Inj. Pt: Amboy Damp
End Pt: Oil Pump station

Stream Discharge (Q_s)	40	cfs
Tracer Plateau Concentration (C_p)	10 ug/L ~~0.2x10⁷~~	~~ug~~ ug/L
Tracer Injection Rate (Q_i)	350	ml/min
Tracer Concentration (C_i)	0.2x10⁷	~~mg/l~~ ug/L
Injection Start Time	1123	
Injection Stop Time		

Sample Location	Elapsed Time (min)	Rhodamine Concentration (ug/L)	Temperature	pH	mS/cm Conductivity	Time
Background / Inj Pt	0	0.0	11.80	8.00	0.810	1120
~300' from Inj Pt	9	10.5 center				1132

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge — Q_s — l/s
C_p = Tracer plateau concetration — C_p — mg/l
Q_i = Tracer injection rate — Q_i — l/s
C_i = Tracer concentration — C_i — mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

67,966,200

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

1132.67 l/s

0.2,000,000

$\frac{40 \text{ cfs} \times 16.0}{40} = \frac{600 \text{ mL/min} \times 0.2 \times 10^7 \text{ ug/L}}{18,879.5 \text{ mL/min}}$

1,132,770 mL/s

18,879.5 mL/min

Test #2 Page 1 of 4

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	9/27/12	Personnel	JWB, NTK, TBP, RJT, JAK
Site Name	SB915	Weather	~65°F Sunny
Site Location		Project #	48127

Test Information:

Stream Discharge (Q_s)	45	cfs
Tracer Plateau Concentration (C_p)	~13.5 ~~10~~	~~mg/l~~ ug/L (12.5)
Tracer Injection Rate (Q_i)	400	ml/min
Tracer Concentration (C_i)	0.2×10^7	~~mg/l~~ ug/L
Injection Start Time	0955	
Injection Stop Time	1447	

Sample Location CP-20	Elapsed Time (min)	Rhodamine Concentration (ug/L)	°C Temperature	pH	mS/cm Conductivity	ORP
Background	0	0	13.69	8.42	1.107	69.7
~~1000~~ 1015	~~15~~ 20	0.1	13.78	8.24	1.116	69.9
1030 ~~1020~~	~~30~~ 35	-0.2	13.81	8.25	1.116	72.7
1040	45	0.1	13.84	8.25	1.115	75.2
1050	55	~~0.1~~ 0.1	13.88	8.25	1.115	77.0
~~1100~~ 1100	65	-0.1	13.91	8.26	1.116	78.7
1110	70	0.2	13.95	8.26	1.115	80.0
1115	75	1.0	13.99	8.26	1.115	80.7
1120	80	2.0	13.99	8.26	1.115	80.8
1125	85	3.6	14.02	8.26	1.115	81.1
1130	90	5.2	14.04	8.27	1.115	81.6
1137	97	6.8	14.08	8.27	1.115	81.8
1140	100	7.1	14.10	8.27	1.114	81.8
1145	105	9.0	14.13	8.27	1.114	82.0
1150	110	9.7	14.17	8.26	1.113	82.2
1155	115	10.5	14.22	8.28	1.113	82.3
1200	120	10.2	14.25	8.29	1.113	82.4
1205	125	11.6	14.29	8.29	1.113	82.6
1210	130	12.0	14.33	8.29	1.113	82.6
1215	135	12.2	14.36	8.30	1.113	82.6
1220	140	12.5	14.41	8.30	1.112	82.7
1225	145	12.3	14.47	8.31	1.112	82.8
1230	150	12.5	14.51	8.31	1.112	82.7
1235	155	12.5	14.55	8.31	1.112	82.8
1240	160	12.5	14.60	8.32	1.112	82.8
1245	165	12.5	14.65	8.32	1.111	82.7
1250	170	12.5	14.69	8.33	1.111	82.6

Injection Rate / Tracer Concentration

$Q_s{*}C_p = Q_i{*}C_i$

Q_s = Stream Discharge	Q_s	l/s
C_p = Tracer plateau concetration	C_p	mg/l
Q_i = Tracer injection rate	Q_i	l/s
C_i = Tracer concentration	C_i	mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n}{*}C_{s,n})/C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

49480.

Test #2 Page 2 of 4

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	9/27/12	Personnel	JWR, MTK, TBP, RJT, JAK
Site Name	513915	Weather	~65°F Sunny
Site Location	Fishing access	Project #	48127

Test Information:

Stream Discharge (Q_s)	45	cfs
Tracer Plateau Concentration (C_p)	~13.5 ~~125~~	~~mg/l~~ ug/L
Tracer Injection Rate (Q_i)	400	ml/min
Tracer Concentration (C_i)	0.2×10⁷	~~mg/l~~ ug/L
Injection Start Time	0955	
Injection Stop Time	1447	

Sample Location	Elapsed Time (min)	Rhodamine Concentration (ug/L)	Temperature	pH	mS/cm Conductivity	ORP
~~Background~~						
1255	175	12.6	14.73	8.33	1.110	82.6
1300	180	12.6	14.77	8.33	1.111	82.7
1305	185	12.6	14.80	8.33	1.110	82.5
1310	190	12.6	14.83	8.33	1.110	82.5
1315	195	12.8	14.86	8.33	1.110	82.5
1320	200	12.9	14.94	8.34	1.110	82.3
1325	205	13.0	14.95	8.34	1.109	82.3
1330	210	13.3	14.98	8.34	1.109	82.2
1335	215	13.5	14.98	8.34	1.109	82.1
1340	220	13.0	1500	8.34	1.109	82.1
1345	225	13.4	15.00	8.34	1.109	82
1350	230	13.2	15.01	8.34	1.109	82
1355	235	13.3	15.02	8.33	1.109	81.9
1400	240	13.6	15.10	8.34	1.109	81.7
1405	245	13.0	15.15	8.34	1.110	81.3
1410	250	13.6	1518	8.34	1.109	81.3
1415	255	13.8	15.24	8.34	1.109	81.2
1420	260	13.5	15.24	8.34	1.107	81.0
1425	265	14.0	15.22	8.33	1.108	80.9
1430	270	13.9	15.25	8.33	1.107	80.9
1435	275	13.7	15.23	8.33	1.108	80.7
1440	280	13.9	15.20	8.33	1.108	80.5
1445	285	13.8	15.20	8.32	1.107	80.1
1450	290	13.7	15.26	8.33	1.107	80.2
1455	295	13.4	15.30	8.33	1.107	80.2
1500	300	14.0	15.32	8.32	1.107	80.0

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge — Q_s — l/s
C_p = Tracer plateau concetration — C_p — mg/l
Q_i = Tracer injection rate — Q_i — l/s
C_i = Tracer concentration — C_i — mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	9/27/12	Personnel	JHB, NJK, TBP, RJT, JAK
Site Name	SB#15	Weather	~65° F Sunny
Site Location	Fishing access	Project #	48127

Test Information:

Stream Discharge (Q_s)	45	cfs
Tracer Plateau Concentration (C_p)	~135 ug/L	~~mg/l~~
Tracer Injection Rate (Q_i)	400	ml/min
Tracer Concentration (C_i)	6.2 x10^7	mg/l
Injection Start Time	0955	
Injection Stop Time	1447	

Sample Location	Elapsed Time (min)	Rhodamine Concentration (ug/L)	Temperature	pH	Conductivity	ORP
Background						
1505	305	13.5	15.33	8.32	1.107	79.9
1510	310	13.5	15.33	8.32	1.107	79.8
1515	315	13.6	15.32	8.32	1.107	79.8
1520	320	13.5	15.31	8.32	1.107	79.8
1525	325	13.4	15.30	8.31	1.107	79.8
1530	330	13.2	15.30	8.31	1.107	79.8
1535	335	13.2	15.29	8.31	1.106	79.8
1540	340	13.1	15.27	8.31	1.106	79.2
1545	345	13.4	15.27	8.31	1.107	79.2
1550	350	13.4	15.26	8.31	1.106	79.1
1555	355	13.0	15.25	8.31	1.107	79.1
1600	400	12.6	15.24	8.30	1.106	79.0
1605	405	11.0	15.23	8.30	1.107	78.8
1610	410	10.2	15.20	8.30	1.106	78.6
1615	415	8.1	15.19	8.30	1.107	78.7
1620	420	8.1	15.17	8.30	1.107	78.5
1625	425	6.7	15.15	8.29	1.107	78.4
1630	430	5.3	15.12	8.29	1.107	78.5
1635	435	4.4	15.07	8.29	1.107	78.4
1640	440	3.7	15.02	8.28	1.107	78.2
1645	445	3.2	14.98	8.28	1.107	78.1
1650	450	3.0	14.92	8.27	1.107	78.1

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge	Q_s	l/s
C_p = Tracer plateau concetration	C_p	mg/l
Q_i = Tracer injection rate	Q_i	l/s
C_i = Tracer concentration	C_i	mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	9/27/12	Personnel	JWR, RJT, NTK, JAK
Site Name	4-15 Closure	Weather	~65° F Sun
Site Location	NMC	Project #	48127

Test Information:

Stream Discharge (Q_s)	45	cfs
Tracer Plateau Concentration (C_p)	~15.0	~~mg/l~~ ug/L
Tracer Injection Rate (Q_i)	~400	ml/min
Tracer Concentration (C_i)	0.2x10^7	~~mg/l~~ ug/L
Injection Start Time	0955	
Injection Stop Time	1247	

Sample Location	~~Elapsed Time (min)~~ Time	Rhodamine Concentration (ug/L)	Temperature	pH	Conductivity	ORP
Background						
CP-11	1346		14.92	8.20	1.066	25.5
CP-12	1356		14.93	8.39	1.067	22.7
CP-13	1403		15.00	8.43	1.072	11.3
CP-14	1408		15.05	8.64	1.072	13.1
CP-15	1415		15.15	8.43	1.074	15.3
CP-16	1419		15.15	8.50	1.073	16.1
CP-17	1409		15.16	8.48	1.130	12.2
CP-18	1400		15.17	8.44	1.076	17.7
CP-19	1355		15.16	8.47	1.071	~~17.3~~
CP-20	1345		15.17	8.46	1.074	17.0

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge	Q_s	l/s	
C_p = Tracer plateau concetration	C_p	mg/l	
Q_i = Tracer injection rate	Q_i	l/s	
C_i = Tracer concentration	C_i	mg/l	

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

Facing upstream - Left = Left Bank, M = Middle, R = Right bank

Tracer Test #3 CP's

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	10/5/12	Personnel	RJT, MTK
Site Name	SR415	Weather	
Site Location		Project #	

Test Information:

Stream Discharge (Q_s)		cfs
Tracer Plateau Concentration (C_p)		mg/l
Tracer Injection Rate (Q_i)		ml/min
Tracer Concentration (C_i)		mg/l
Injection Start Time		
Injection Stop Time		

Sample Location	Elapsed Time (min)	Rhodamine Concentration (ug/L)	°C Temperature	pH	mS/cm Conductivity
~~Background~~ CP-21	1440		15.09	8.41	.0253
CP-22	1445		15.11	8.32	1.080
CP-23	1449		15.14	8.31	1.081
CP-24	1454		15.13	8.31	1.082
CP-25	1459		15.14	8.31	1.077
CP-26	1504		15.11	8.27	1.134
CP-27	1509		15.13	8.30	1.095
CP-28	1514		15.14	8.30	1.095
CP-29	1514		15.11	8.30	1.112
CP-30	1516		15.06	8.29	1.118
FB	1526		13.12	7.35	10.84
CP-31	1531		15.10	8.43	1.153
CP-32	1534		15.10	8.41	1.155
CP-33	1539		15.08	8.35	1.180

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge	Q_s	l/s
C_p = Tracer plateau concetration	C_p	mg/l
Q_i = Tracer injection rate	Q_i	l/s
C_i = Tracer concentration	C_i	mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters

1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location

Q_s = Stream discharge at sampling location

Q_{gw} = Groundwater discharge at sampling location

n = selected sampling location

n-1 = sampling location upstream of selected sampling location

Notes:

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	10/5/12	Personnel	JAK
Site Name		Weather	
Site Location	#33	Project #	

Test Information:

Stream Discharge (Q_s)		cfs
Tracer Plateau Concentration (C_p)		mg/l
Tracer Injection Rate (Q_i)		ml/min
Tracer Concentration (C_i)		mg/l
Injection Start Time		
Injection Stop Time		

Sample Location	Elapsed Time (min) (1038 start)	Rhodamine Concentration (ug/L)	Temperature (°C)	pH	Conductivity (ms/cm)
Background	1115 37	-1.2	13.94	8.13	1.247
	1125	0.0	13.92	8.15	1.240
	1135	-0.2	13.95	8.16	1.242
	1145	0.1	13.99	8.18	1.239
	1155	0.5	14.04	8.19	1.239
	1205	1.4	14.10	8.19	1.241
	1210	2.6	14.14	8.20	1.242
	1215	3.5	14.16	8.20	1.242
	1220	4.9	14.17	8.20	1.240
	1225	6.4	14.19	8.21	1.240
	1230	7.8	14.21	8.21	1.241
	1235	8.1	14.24	8.22	1.239
	1240	9.7	14.26	8.22	1.240
	1245	10.1	14.30	8.22	1.241
	1250	10.9	14.34	8.23	1.238
	1255	11.8	14.39	8.23	1.239
	1300	12.4	14.41	8.23	1.239
	1305	13.1	1446	8.23	1.204
	1310	13.7	14.49	8.24	1.235
	1315	13.9	14.53	8.24	1.239
	1320	14.4	14.55	8.24	1.239
	1325	14.9	14.59	8.25	1.240
	1330	15.2	14.62	8.25	1.238
	1335	15.6	14.62	8.25	1.243
	1340	15.5	14.64	8.25	1.237
	1345	15.7	14.66	8.25	1.239
	1350	15.9	14.66	8.26	1.239

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge	Q_s	l/s
C_p = Tracer plateau concetration	C_p	mg/l
Q_i = Tracer injection rate	Q_i	l/s
C_i = Tracer concentration	C_i	mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	10/5/12	Personnel	JAK
Site Name		Weather	
Site Location	CP-33	Project #	

Test Information:

Stream Discharge (Q_s)		cfs
Tracer Plateau Concentration (C_p)		mg/l
Tracer Injection Rate (Q_i)		ml/min
Tracer Concentration (C_i)		mg/l
Injection Start Time		
Injection Stop Time		

Sample Location	Elapsed Time (min)	Rhodamine Concentration (ug/L)	(°C) Temperature	pH	(ms/cm°) Conductivity	
Background	1355	15.8	14.69	8.26	1.238	
	1400	16.2	14.73	8.26	1.241	
	1405	16.1	14.73	8.26	1.244	
	1410	16.5	14.75	8.26	1.241	
	1415	16.6	14.80	8.27	1.241	
	1420	16.9	14.83	8.27	1.240	
	1425	16.8	14.87	8.27	1.240	
	1430	16.9	14.91	8.28	1.237	
	1435	17.0	14.92	8.28	1.239	
	1440	17.1	14.94	8.28	1.238	
	1445	17.3	14.96	8.28	1.237	
	1450	17.2	14.96	8.28	1.237	
	1455	17.1	14.97	8.28	1.237	
	1500	17.2	14.99	8.29	1.236	
	1505	17.3	14.99	8.29	1.238	
	1510	17.3	15.02	8.29	1.238	
	1515	17.1	15.04	8.29	1.245	
	1520	17.3	15.07	8.30	1.238	
	1525	17.4	15.11	8.30	1.237	
	1530	17.2	15.11	8.30	1.241	
	1535	17.3	15.14	8.30	1.238	
	1540	17.1	15.20	8.30	1.238	
	1545	17.0	15.21	8.31	1.239	
	1550	17.2	15.25	8.31	1.237	
	1555	17.3	15.26	8.31	1.240	
	1600	17.2	15.28	8.31	1.239	
	1605	17.0	15.29	8.31	1.239	

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge — Q_s — l/s
C_p = Tracer plateau concetration — C_p — mg/l
Q_i = Tracer injection rate — Q_i — l/s
C_i = Tracer concentration — C_i — mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	10/5/12	Personnel	
Site Name		Weather	
Site Location	CP-33	Project #	

Test Information:

Stream Discharge (Q_s)		cfs
Tracer Plateau Concentration (C_p)		mg/l
Tracer Injection Rate (Q_i)		ml/min
Tracer Concentration (C_i)		mg/l
Injection Start Time		
Injection Stop Time		

Sample Location	Elapsed Time (min)	Rhodamine Concentration (ug/L)	Temperature	pH	Conductivity	
Background	1610	17.3	15.29	8.30	1.241	
	1615	17.3	15.31	8.30	1.234	
	1620	17.2	15.31	8.30	1.238	
	1625	17.3	15.32	8.30	1.242	
	1630	16.9	15.32	8.30	1.238	
	1635	15.2	15.33	8.30	1.239	
	1640	14.3	15.34	8.30	1.238	
	1645	13.1	15.34	8.30	1.239	
	1650	12.3	15.35	8.30	1.237	
	1655	9.8	15.35	8.30	1.240	
	1700	9.0	15.33	8.29	1.241	
	1705	7.5	15.33	8.29	1.242	
	1710	7.2	15.33	8.29	1.242	
	1715	6.8	15.33	8.29	1.241	
	1720	6.1	15.33	8.29	1.241	
	1725	6.0	15.32	8.29	1.240	
	1730	5.2	15.31	8.29	1.240	
	1735	5.1	15.31	8.29	1.240	

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge	Q_s	l/s
C_p = Tracer plateau concetration	C_p	mg/l
Q_i = Tracer injection rate	Q_i	l/s
C_i = Tracer concentration	C_i	mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters

1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concantration at sampling location

Q_s = Stream discharge at sampling location

Q_{gw} = Groundwater discharge at sampling location

n = selected sampling location

n-1 = sampling location upstream of selected sampling location

Notes:

O'Brien & Gere Engineers — **Stream Discharge / Cross-Section**

Date	10/5/12	Weather	~65°F Cloudy	Personnel	JWB, TBP
Site Name	SR915	Time	1100	Velocity Meter	Marsh McBirney
Site Location		Project #	148127	Page #	1

Stream Information

Stream Name	NMC
Stream Width	44 ft
Turbidity	N/A

Tracer Test #3
Inj. Pt = Boat Launch

Above inj. Pt + split off

Distance (ft)	Width (ft)	Depth (ft)	Velocity (ft/sec)	Area (sq.ft.)	Discharge (Q) cfs
LEW 0		0	—		
5.5		0.6	0.51	7.7	4.0
11	11	0.7	—		
16.5		0.95	1.10	12.65	14.0
22	11	1.15	—		
28.5		1.00	1.37	12.65	17.3
33	11	0.7	—		
38.5		0.5	1.14	7.7	8.8
44	11	0	—		
				CFS	44

O'Brien & Gere Engineers

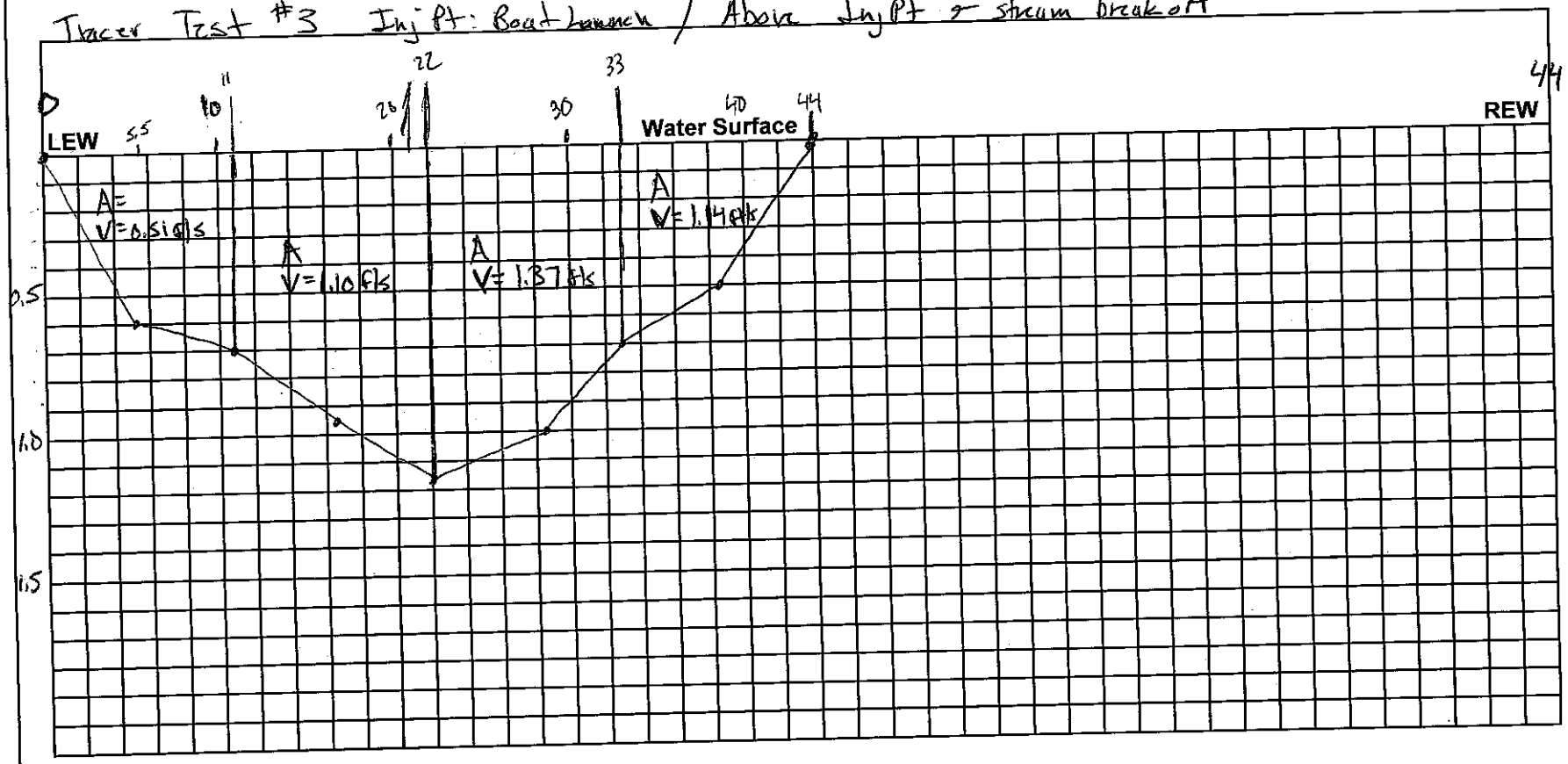
Stream Discharge / Cross-section

Date 10/5/12
Site Name SR915
Site Location

Weather ~65°F & Cloudy
Time 1100
Project # 48127

Personnel DWR, TBP

Tracer Test #3 Inj Pt: Boat Launch / Above Inj Pt @ stream break off



$A^1 = 11' \times 0.7' = 7.7$ sf +12
$A^2 = 11' \times 1.15 = 12.65$ sf
$A^3 = 11' \times 1.15 = 12.65$ sf
$A^4 = 11' \times 0.7' = 7.7$ sf

O'Brien & Gere Engineers — **Stream Discharge / Cross-Section**

Date 10/5/12 | Weather | Personnel JLB, NTK
Site Name SPA15 | Time | Velocity Meter Marsh McBirney
Site Location | Project # 48127 | Page # 1 of 1

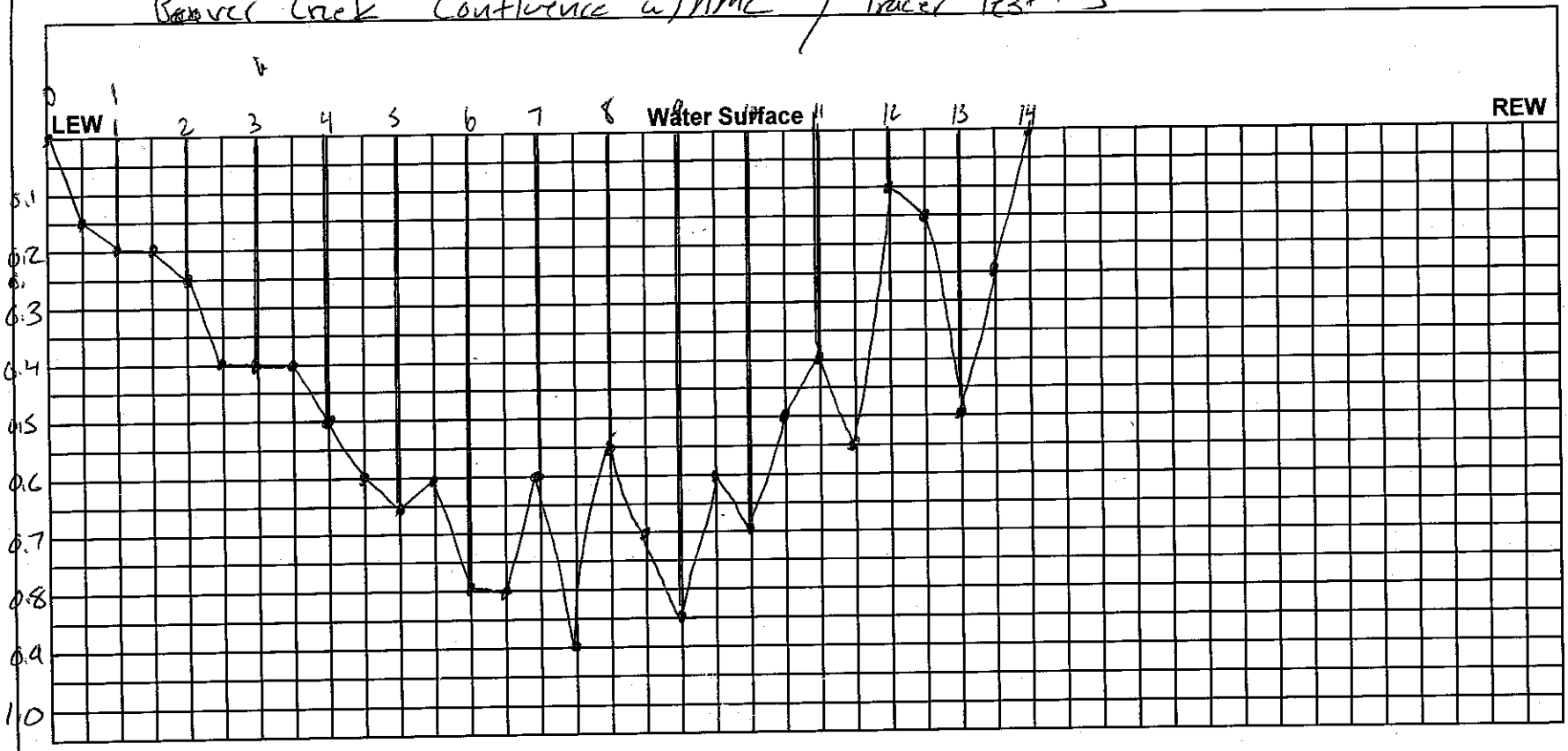
Stream Information
Stream Name Beaver Creek | Beaver Creek confluence w/ NMC
Stream Width 14' | Tracer test #3
Turbidity | Inj. Pt: boat Launch

Distance (ft)	Depth (ft)	Width (ft)	Velocity (ft/sec)	Area (sq.ft.)	Discharge (Q) cfs
LEW 0	0		-		
0.5	0.15	1.0	~0.0	0.15	0.0
1	0.2		-		
1.5	0.2	1.0	0.1	0.20	0.02
2	0.25		-		
2.5	0.4	1.0	1.0	0.40	0.4
3	0.4		-		
3.5	0.4	1.0	1.2	0.40	0.48
4	0.5		-		
4.5	0.6	1.0	0.1	0.60	0.06
5	0.65		-		
5.5	0.60	1.0	0.0	0.60	0
6	0.80		-		
6.5	0.80	1.0	0.0	0.80	0
7	0.60		-		
7.5	0.90	1.0	1.7	0.90	1.53
8	0.55		-		
8.5	0.70	1.0	0.1	0.70	0.07
9	0.85		-		
9.5	0.60	1.0	0.3	0.60	0.18
10	0.70		-		
10.5	0.50	1.0	0.3	0.50	0.15
11	0.40		-		
11.5	0.55	1.0	0.1	0.55	0.055
12	0.1		-		
12.5	0.15	1.0	0.02	0.15	0.003
13	0.5		-		
13.5	0.25	1.0	0.15	0.25	0.0375
14	0		-		
				Total	2.98 cfs

O'Brien & Gere Engineers — **Stream Discharge / Cross-section**

Date 10/5/12 | Weather | Personnel JWB
Site Name SIB415 | Time
Site Location | Project # 4827

Beaver Creek Confluence w/ NMC / Tracer Test #3



O'Brien & Gere Engineers — **Stream Discharge / Cross-Section**

Date	10/5/17	Weather		Personnel	JWB, NTK
Site Name	SB915	Time		Velocity Meter	Marsh McBirney
Site Location		Project #	48127	Page #	1

Stream Information

Stream Name	NMC
Stream Width	15.5
Turbidity	

NMC @ CP-25
- Above confluence of Beaver Creek

Distance (ft)	Width (ft)	Depth (ft)	Velocity (ft/sec)	Area (sq.ft.)	Discharge (Q) cfs
0			—		
0.5	1.0	0.75	0.5	0.75	0.0375
1.0		0.60	—		
1.5	1.0	0.80	1.5	0.80	1.2
2.0		1.10	—		
2.5	1.0	1.30	1.5	1.30	1.95
3.0		1.10	—		
3.5	1.0	1.30	1.45	1.30	1.88
4.0		1.30	—		
4.5	1.0	1.50	1.50	1.50	2.25
5.0		1.45	—		
5.5	1.0	1.50	1.00	1.50	1.50
6.0		1.50	—		
6.5	1.0	1.55	1.10	1.55	1.705
7.0		1.45	—		
7.5	1.0	1.45	1.3	1.45	1.885
8.0		1.55	—		
8.5	1.0	1.60	0.75	1.60	1.2
9.0		1.65	—		
9.5	1.0	1.60	1.10	1.60	1.76
10.0		1.60	—		
10.5	1.0	1.60	0.8	1.60	1.28
11.0		1.40	—		
11.5	1.0	1.30	0.4	1.30	0.52
12.0		0.80	—		
12.5	1.0	0.90	0.0	0.9	0
13.0		0.50	—		
13.5	1.0	0.50	0.0	0.5	0
14.0		0.50	—		
14.5	1.0	0.30	0.0	0.3	0
15.0		0.2	—		
15.5	1.0	0	—	0	0
				Total	17.16 cfs

O'Brien & Gere Engineers — Stream Discharge / Cross-Section

Date: 10/5/12 | Weather: | Personnel: JWR
Site Name: SB415 | Time: | Velocity Meter: Marsh-McBirney
Site Location: | Project #: 48127 | Page #: 1 of 1

Stream Information
Stream Name: NMC
Stream Width: 43
Turbidity:

NMC near CP-27

Distance (ft)	Width (ft)	Depth (ft)	Velocity (ft/sec)	Area (sq.ft.)	Discharge (Q) cfs
LEW 0		0.0	-		
1	2.0	0.1	0.01	0.2	0.002
2		0.6			
3	2.0	0.8	0.35	1.6	0.56
4		0.9			
5	2.0	1.1	0.44	2.2	0.968
6		1.3			
7	2.0	1.85	0.69	3.7	2.53
8		1.85			
9	2.0	1.90	0.68	3.8	2.58
10		1.70			
11	2.0	1.60	0.63	3.2	2.016
12		1.30			
13	2.0	1.3	0.71	2.6	1.31
14		1.3			
15	2.0	1.4	0.89	2.8	2.49
16		1.4			
17	2.0	1.4	0.69	2.8	1.93
18		1.4			
19	2.0	1.3	0.82	2.6	2.13
20		1.35			
21	2.0	1.35	0.85	2.7	2.29
22		1.30			
23	2.0	1.45	0.57	2.9	1.65
24		1.50			
25	2.0	1.50	0.58	3.0	1.74
26	2.0	1.40			
27	2.0	1.45	0.51	2.9	1.47
28		1.3			
29	2.0	1.4	0.82	2.8	2.29
30		1.3			
31	2.0	1.2	0.70	2.4	1.68
32		1.1			
33	2.0	0.9	0.86	1.8	1.54
34		1.0			
35	2.0	1.1	0.74	2.2	1.62
36		1.2			
37	2.0	0.1	0.65	2.2	1.43
38		1.3	-		
39	2.0	1.1	0.61	2.2	1.34
40		0.7	-		
41	2.0	0.5	0.04	1.6	0.064
42		0.1	-		
43	2.0	0	-	0	

Total = 33.63

O'Brien & Gere Engineers — **Stream Discharge / Cross-Section**

Date: 10/5/12 | Weather: ~65°F/cloudy | Personnel:
Site Name: SB915 | Time: 1135 | Velocity Meter: Marsh Mcbirney
Site Location: | Project #: 48127 | Page #: 1 of 1

Stream Information
Stream Name: NMC
Stream Width: 24
Turbidity: NA

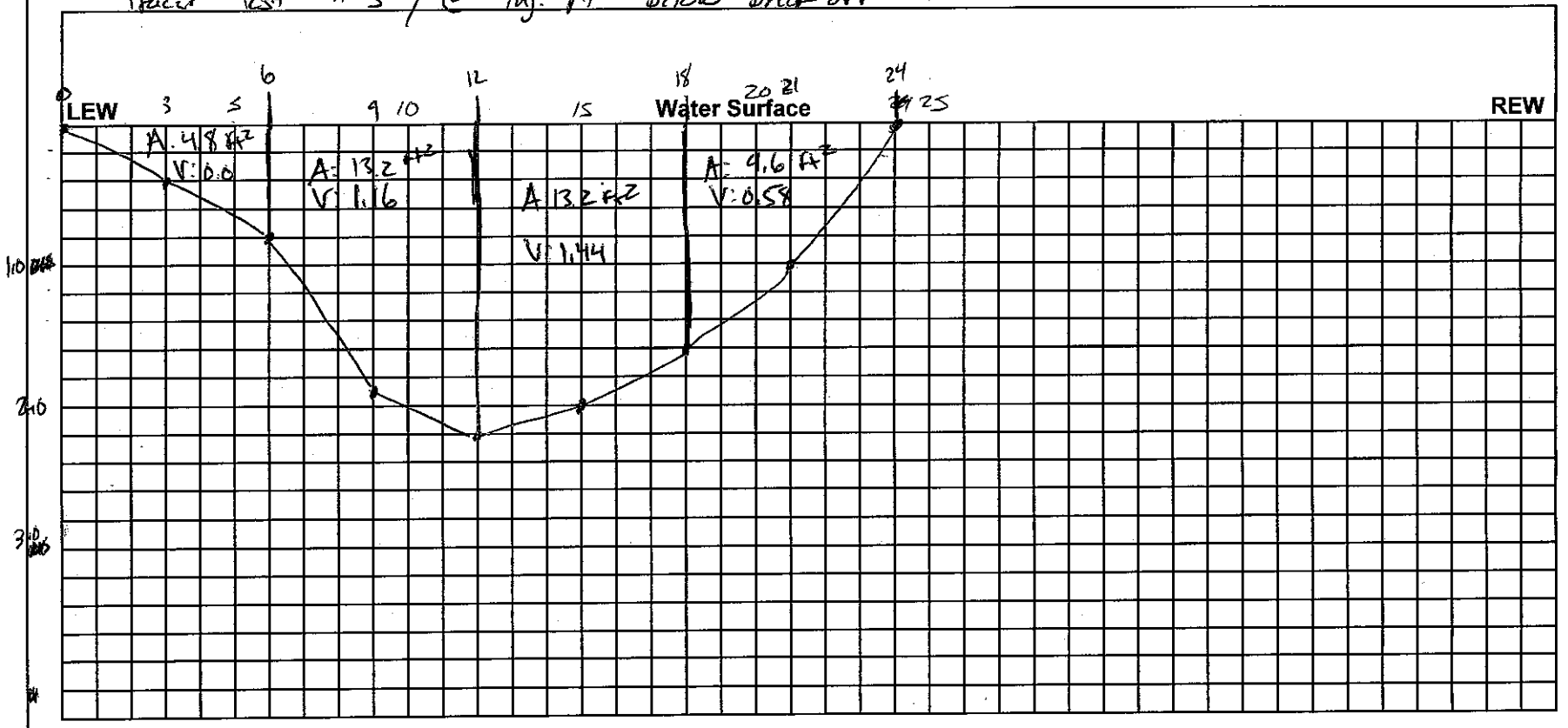
Tracer Test #3
@ Inj. Pt below break off

Distance (ft)	Width (ft)	Depth (ft)	Velocity (ft/sec)	Area (sq.ft.)	Discharge (Q) cfs
0 3		0 0.4	0.0	4.8	0
6	6	0.8			
9		1.9	1.16	13.2	15.3
12		2.2	–		
15		2.0	1.44	13.2	19.0
18		1.6	–		
21		1.0	0.58	9.6	5.5
24		0	–		
				Total =	39.8

O'Brien & Gere Engineers | **Stream Discharge / Cross-section**

Date	10/5/12	Weather	~65°F Cloudy	Personnel	
Site Name	SB915	Time	1135		
Site Location		Project #	48127		

Tracer test #3 / @ inj. pt below brick off



Tracer Test #4

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date: 10/11/12
Site Name:
Site Location:
Personnel: NTK, RJT
Weather:
Project #: 48127

Test Information:

Stream Discharge (Q_s)	49	cfs
Tracer Plateau Concentration (C_p)		mg/l
Tracer Injection Rate (Q_i)		ml/min
Tracer Concentration (C_i)		mg/l
Injection Start Time		
Injection Stop Time		

Sample Location	Elapsed Time (min)	Rhodamine Concentration (ug/L)	Temperature	pH	Conductivity (µS/cm)
Background					
CP-34	1447		10.59	~~8.60~~ 9.21	1.226
CP-35	1451		10.52	8.47	1.228
CP-36	1455		10.46	8.41	1.226
CP-37	1459		10.32	8.39	1.231
CP-38	1504		10.32	8.46	1.262
CP-39	1507		10.51	8.33	1.391
CP-40	1510		10.39	8.29	1.448
CP-41	1514		10.48	8.12	2.089
CP-42	1519		10.51	8.12	2.203
CP-43	1526		10.45	8.14	2.133
CP-44	1531		10.58	8.16	2.180
CP-45	1537		10.50	8.18	2.150
CP-46	1543		10.62	8.15	2.160
CP-47	1549		10.55	8.18	2.167
CP-48	1555		10.59	8.16	2.168

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge
C_p = Tracer plateau concetration
Q_i = Tracer injection rate
C_i = Tracer concentration

Q_s	l/s	
C_p	mg/l	
Q_i	l/s	
C_i	mg/l	

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	10/11/12	Personnel	TBP, JUB, MTK, RJT
Site Name	SB916	Weather	
Site Location		Project #	

Test Information:

Stream Discharge (Q_s)	49	cfs
Tracer Plateau Concentration (C_p)		mg/l
Tracer Injection Rate (Q_i)	450	ml/min
Tracer Concentration (C_i)		mg/l
Injection Start Time	0950	
Injection Stop Time	1305	

Sample Location	Elapsed Time (min)	Rhodamine Concentration (ug/L)	Temperature	pH	mS/cm Conductivity	ORP
Background						
INLET	1125	8.0	10.84	8.11	2.166	187.7
	1135	0.0	10.96	8.10	2.170	150.8
	1145	0.0	10.99	8.10	2.177	136.8
	1155	0.0	10.93	8.10	2.184	125.4
	1205	0.0	10.88	8.10	2.188	118.7
	1215	0.0	10.77	8.11	2.192	115.9
	1225	-.2	11.02	8.11	2.197	110.6
	1235	.5	11.15	8.11	2.199	106.8
	1245	.2	11.23	8.11	2.205	104.2
	1255	.3	11.33	8.11	2.209	102.6
	1305	0.0	11.35	8.10	2.217	101.3
	1315	.6	11.66	8.11	2.217	100.1
	1325	.6	11.62	8.10	2.223	99.4
	1335	.5	11.77	8.10	2.225	98.9
	1345	1.4	11.76	8.10	2.231	98.7
	1355	2.0	11.72	8.10	2.233	98.4
	1405	3.3	11.95	8.11	2.237	97.9
	1415	4.2	11.85	8.10	2.241	97.7
	1420	8.0	11.00	8.08	2.230	98.2
	1425	8.8	10.87	8.08	2.231	98.0
	1430	9.0	10.87	8.09	2.232	97.8
	1435	9.8	10.89	8.11	2.234	96.8
	1440	10.6	10.92	8.12	2.239	95.6
	1445	10.7	10.95	8.12	2.239	95.1
	1450	10.8	10.96	8.12	2.241	94.7
	1455	11.4	10.96	8.13	2.242	94.0

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge — Q_s — l/s
C_p = Tracer plateau concetration — C_p — mg/l
Q_i = Tracer injection rate — Q_i — l/s
C_i = Tracer concentration — C_i — mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters
1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location
Q_s = Stream discharge at sampling location
Q_{gw} = Groundwater discharge at sampling location
n = selected sampling location
n-1 = sampling location upstream of selected sampling location

Notes:

O'Brien & Gere Engineers, Inc.
Nine Mile Creek Tracer Test Log

Date	10/11/12	Personnel	
Site Name	SB915	Weather	
Site Location		Project #	

Test Information:

Stream Discharge (Q_s)	49	cfs
Tracer Plateau Concentration (C_p)		mg/l
Tracer Injection Rate (Q_i)	450	ml/min
Tracer Concentration (C_i)		mg/l
Injection Start Time	0950	
Injection Stop Time	1305	

Sample Location	Elapsed Time (min)	Rhodamine Concentration (ug/L)	Temperature	pH	Conductivity	ORP
Background						
	1500	11.7	10.95	8.13	2.244	93.8
	1505	12.9	10.95	8.13	2.250	93.1
	1510	13.0	10.94	8.13	2.253	92.8
	1515	13.0	10.94	8.13	2.254	92.4
	1520	13.1	10.94	8.13	2.255	92.3
	1525	13.0	10.94	8.13	2.257	92.0
	1530	13.7	10.97	8.13	2.260	91.6
	1535	14.2	10.95	8.13	2.261	91.4
	~~1540~~ 1540	14.0	10.92	8.13	2.263	91.5
	~~1445~~ 1445	14.2	10.88	8.13	2.264	91.5
	~~1550~~ 1550	14.6	10.83	8.13	2.266	91.2
Turbidity high from sample acw *	~~1555~~ 1555	14.9	10.81	8.13	2.269	91.1
	1600	14.1	10.81	8.13	2.269	91.2
	1605	14.8	10.79	8.13	2.269	88.6
	1610	14.6	10.79	8.13	2.269	89.4
@1555 Water Quality meter - Data on seperate sheet		left logging in NMC		until	0915 on	10/12/13

Injection Rate / Tracer Concentration

$Q_s * C_p = Q_i * C_i$

Q_s = Stream Discharge — Q_s — l/s

C_p = Tracer plateau concetration — C_p — mg/l

Q_i = Tracer injection rate — Q_i — l/s

C_i = Tracer concentration — C_i — mg/l

*Liquid stock tracer is 20% RWT by mass ~ 250g/l

1 gallon = 3.7854 liters

1 ft^3 = 28.316 liters

Stream Discharge

$(Q_{s,n} * C_{s,n}) / C_{s,n-1} = Q_{s,n-1}$

GW Discharge

$Q_{gw} = Q_{s,n} - Q_{s,n-1}$

C_s = Tracer concentration at sampling location

Q_s = Stream discharge at sampling location

Q_{gw} = Groundwater discharge at sampling location

n = selected sampling location

n-1 = sampling location upstream of selected sampling location

Notes:

O'Brien & Gere Engineers — **Stream Discharge / Cross-Section**

Date	10/1/12	Weather		Personnel	JWB
Site Name	SB915	Time		Velocity Meter	Marsh-McBirney
Site Location		Project #	48127	Page #	1 of 1

Stream Information

Stream Name: NMC
Stream Width: 60 ft
Turbidity:

Tracer Test #4
Sample Pt #48

Distance (ft)	Width (ft)	Depth (ft)	Velocity (ft/sec)	Area (sq.ft.)	Discharge (Q) cfs
0		0	-		
2.5	5	1.2	0.38	6	2.28
5		1.4	-		
7.5	5	1.5	0.54	7.5	4.05
10		1.5	-		
12.5	5	1.4	0.70	9	6.30
15		1.7	-		
17.5	5	1.7	0.82	8.5	6.97
20		1.6	-		
22.5	5	1.65	0.53	8.25	4.37
25		1.60	-		
27.5	5	1.40	0.65	7.0	4.55
30		1.40	-		
32.5	5	1.35	0.61	6.75	4.11
35		1.20	-		
37.5	5	1.05	0.50	5.25	2.63
40		0.95	-		
42.5	5	0.90	0.48	4.5	2.16
45		0.65	-		
47.5	5	0.45	0.18	2.25	0.405
50		0.30	-		
52.5	5	0.20	0	1	0
55		0.20	-		
57.5	5	0.20	0	1	0
60		0	-		
				Total	37.825 cfs

Appendix C

Boring Logs (on CD at end of Appendices)

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-IMW-01S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location:**
Proj. Loc: SETTLING BASIN 9-15 Geddes/Camillus NY	**Hammer: 140-lb drop**	**Start Date: 9/8/2005**
File No.: 1163/36327	**Fall: 30"**	**End Date: 9/8/2005**
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Mickey Marshall		**Riser** **Sand Pack**
OBG Geologist: Joseph Button		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	3-2-2-2	2/0.5	4	dark grayish brown (10yr 3/2), dry, loose, fine sand, same fmc rounded to angular, little plant matter. No odor (fill)	Fill	\ \	0	
2	2	4	1-2-1-2	2/1	3	SAA, with trace brick fragments trace black coal-like fragments (cinders). (fill)		\ \	0	
4	3	6	2-2-2-3	2/1.5	4	0.5 feet SAA, w/ reddish slag. 1 foot dark brown (10yr 4/3) moist, stiff, silt, some clay some sand. Moderately cohesive.			0	
6	4	8	10-5-3-2	2/0.2	8	poor recovery (sluff)			0	
8	5	10	2-1-2-2	2/1.5	3	0.5 feet, SAA, 1foot very dark brown (10yr 2/2) wet, loose, silt, some clay some fine sand, trace of gravel		=	0	
10	6	12	3-1-2-2	2/2	3	1 foot SAA, with little peat like plant matter. 1 inch dark yellowish brown to olive brown. Silt, some clay, trace plant matter.	11'	=	0	
12	7	14	4-5-10-13	2/1	15	SAA, stiff.	Silt/Clay	=	0	
14	8	16	7-6-12-12	2/1.5	18	SAA, stiff, trace of fine sand.		=	0	
16	9	18	7-7-7-13	2/2	14	dark yellowish brown (10yr 4/3) moist, stiff, laminated silt, some clay, trace of fine sand.		=	0	

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-IMW-02S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location:**
Proj. Loc: SETTLING BASIN 9-15 Geddes/Camillus NY	**Hammer: 140-lb drop**	**Start Date: 9/7/2005**
File No.: 1163/36327	**Fall: 30"**	**End Date: 9/7/2005**
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Mickey Marshall		**Riser** **Sand Pack**
OBG Geologist: Joseph Button		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	3-3-4-4	2/1.2	4	Dry, loose, very dark greyish brown (10YR3/2), f/c sand, little silt, trace f/m gravel, trace vegetative mater	Fill	\ \	0	
2	2	4	3-4-3-4	2/0.8	3	Dry, loose, very dark grey (10YR3/1), f/c sand, little silt, trace f/m gravel, crushed stone/brick, cinders.		\ \	0	
4	3	6	2-3-2-2	2.14	4	0.4 feet SAA, w/ reddish slag. 1 ft. moist, loose very dark grey (2.5Y3/2) f/m sand, some silt and trace clay.			0	
6	4	8	4-4-5-6	2/0.6	8	0.3 SAA, 0.3ft wet, firm, light brown (2.5Y5/4) silt, some fine sand, trace clay	8'	=	0	
8	5	10	6-10-11-8	2/2	3	Moist, stiff, greyish brown (2.5Y5/2), silt, trace clay. Mottled light olive brown (2.5Y5/6) f. sand/silt.	Silt/Clay	=	0	
10	6	12	8-10-5-7	2/1.5	3	0.5 wet, stiff, dark greyish brown silt, little clay, trace fine sand.		=	0	
12	7	14	5-5-7-5	2/2	15	SAA		=	0	
14	8	16	5-6-8-10	2/2	18	1' SAA, 1' wet, md density, brown (10YR4/4) silt and f sand, trace clay		=	0	

O'BRIEN & GERE ENGINEERS, INC.

SOIL BORING LOG

REPORT OF BORING
SB915-IMW-03S

Client: Honeywell
Proj. Loc: SETTLING BASIN 9-15 Geddes/Camillus NY
File No.: 1163/36327

Sampler: 2" Split Spoon
Hammer: 140-lb drop
Fall: 30"

Location:
Start Date: 9/8/2005
End Date: 9/8/2005

Boring Company: Parratt-Wolff
Foreman: Mickey Marshall/Jim Lansing
OBG Geologist: Joseph Button

Screen = \ Grout
Riser Sand Pack
Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	2-2-1-2	2/2	9	0.5' Dry, loose, Dark yellow brown (10YR4/4) f/m sand and silt, some vegetative matter. 1' dry loose, grey silt/sand (solvay waste). 0.5' Dry, loose yellow brown (10YR5/6) silt, some f. sand.	Solvay waste to 1.5'	\		\	0	
2	2	4	5-4-3-4	2/1.5	10	1' dry loose, brownish black (10YR5/6) silt, some f. sand. 0.5' Moist, loose, f/m sand, little silt.	Fill to 4.5	\		\	0	
4	3	6	2-2-3-3	2/1.5	13	0.5' SAA. 0.5' moist, loose, f/m sand, little silt (solvay waste), coarse waste. 0.5' Moist, soft olive brown (2.5Y4/3) silt, little f. sand, trace clay.	Solvay waste to 5.5'	\		\	0	
6	4	8	5-3-2-3	2/2	8	SAA, intermixed olive grey silt and orangish brown f. sand, trace clay.	Fine sand And silt				0	
8	5	10	3-2-3-3	2/2	3	Moist, loose, olive brown (2.5Y4/4) f. sand and silt (organic natural odor), trace shell matter	Marl		=		0	
10	6	12	1-2-1-2	2/2	3	SAA, little shell matter, trace vegetative matter			=		0	
12	7	14	5-5-5-4	2/1.6	15	1' SAA. 1' Firm to stiff, moist, olive gray (5Y4/2) silt, some f. sand, trace clay (natural organic odor).	Fine Marl to 15.5		=		0	
14	8	16	2-4-7-5	2/1.2	18	SAA. Bottom 0.4' had wood, requiring core			=		0	
16	9	18	core			Wood to 17.5'	Wood to 17.5		=		0	
18	10	20	3-3-2-3	2/1.2	5	SAA, Moist, firm, olive brown (2.5Y4/3) f. sand and silt, trace shell matter (natural organic odor)	Fine Marl		=		0	
20	11	22	2-2-2-3	2/2	4	Moist, interlayered, soft, dark grayish brown (2.5Y4/2) silt, littl f. sand, trace clay	Silt		=		0	
22	12	24		2/2		SAA.			=			
						Well Screened at 9'-24'						

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-IMW-04S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location:**
Proj. Loc: SETTLING BASIN 9-15 Geddes/Camillus NY	**Hammer: 140-lb drop**	**Start Date: 9/8/2005**
File No.: 1163/36327	**Fall: 30"**	**End Date: 9/8/2005**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Mickey Marshall		**Riser Sand Pack**
OBG Geologist: Joseph Button		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	4-4-5-4	2/1.2	9	Moist, loose, black (10YR2/1), m/c sand, little silt, little f/m gravel. Cinders, slag, crushed back. (Fill)	Fill	\		\	0	
2	2	4	4-6-4-5	2/2	10	Moist, stiff, dark greyish brown (10YR4/2), silt, trace clay, trace vegitative matter.	Silt/Clay				0	
4	3	6	5-6-7-6	2/1.8	13	1' As above. 0.8" moist, stiff, grayish silt with mottled brown f sand, trace clay.					0	
6	4	8	9-6-5-4	2/1.8	8	0.8 SAA. 1' wet, stiff, olive grey (5Y4/2) Silt, some f. sand, trace clay.			=		0	
8	5	10	2-1-1-2	2/2	3	1' SAA. 1' wet, very loose, very dark greyish brown (10YR3/3) f/m sand and silt.	9'		=		0	
10	6	12	1-1-1-2	1/1.2	3	0.2' SAA. 1' wet, very loose, very dark greyish brown (10YR3/) f/m sand, little silt, little shell material, little veg.	Sand/Silt 11'		=		0	
12	7	14	2-2-4-5	2/2	15	1' c/m/f sand and silt, some f/m gravel/shell material. 1' wet, loose very dard greyish brown (10YR3/2) f/m sand and silt, trace shell matter.	Marl		=		0	
14	8	16	1-1-wh-wh	2/2	18	Wet, very loose, very dark grey (10YR3/1) f sand and silt.	Sand/silt		=		0	

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-IMW-05S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location:**
Proj. Loc: SETTLING BASIN 9-15 Geddes/Camillus NY	**Hammer: 140-lb drop**	**Start Date: 9/9/2005**
File No.: 1163/36327	**Fall: 30"**	**End Date: 9/9/2005**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Mickey Marshall/Jim Lansing		**Riser Sand Pack**
OBG Geologist: Joseph Button		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	3-3-4-8	1/1.4		1' moist, loose, f/m sand, some silt, little vegetative matter, intermitten gray/white solvay waste. 0.4' moist, loose, reddish black/brown (10R2.5/1), f/c sand, some silt, slag (crushed black cinders, misc fill)	Solvay waste to 1.5'	\		\	0	
2	2	4	6-5-7-7	2/0.8	12	SAA, misc fill. Nose of spoon into brown silt with some clay	Fill to 4.5	\		\	0	
4	3	6	2-3-3-5	2/2	6	Moist, firm, brown (10YR4/3) silty some f. sand,	Solvay waste to 5.5'	\		\	0	
6	4	8	2-3-3-5	2/0.6	7	SAA, intermixed olive grey silt and orangish brown f. sand, trace clay.	Fine sand And silt				0	
8	5	10	3-3-5-10	2/1.4	8	Moist, loose, olive brown (2.5Y4/4) f. sand and silt (organic natural odor), trace shell matter	Marl				0	
10	6	12	7-8-9-15	2/1.8	17	SAA, little shell matter, trace vegetative matter			=		0	
12	7	14	9-8-10-13	2/2	10	1' SAA. 1' Firm to stiff, moist, olive gray (5Y4/2) silt, some f. sand, trace clay (natural organic odor).	Fine Marl to 15.5		=		0	
14	8	16	5-11-6-4	2/2	17	SAA. Bottom 0.4' had wood, requiring core			=		0	
16	9	18	5-6-8-4	2/2	14	Wood to 17.5'	Wood to 17.5		=		0	
18	10	20		2/2		SAA, Moist, firm, olive brown (2.5Y4/3) f. sand and silt, trace shell matter (natural organic odor)	Fine Marl		=		0	
							Silt					
						Well Screened at 9'-24'						

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-IMW-05S
Client: Honeywell	Sampler: 2" Split Spoon	Location:
Proj. Loc: SETTLING BASIN 9-15 Geddes/Camillus NY	Hammer: 140-lb drop	Start Date: 9/9/2005
File No.: 1163/36327	Fall: 30"	End Date: 9/9/2005
Boring Company: Parratt-Wolff Foreman: Mickey Marshall/Jim Lansing OBG Geologist: Joseph Button		Screen = \ Grout Riser Sand Pack Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-IMW-06S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location:**
Proj. Loc: SETTLING BASIN 9-15 Geddes/Camillus NY	**Hammer: 140-lb drop**	**Start Date: 9/9/2005**
File No.: 1163/36327	**Fall: 30"**	**End Date: 9/9/2005**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Jim Lansing		**Riser Sand Pack**
OBG Geologist: Joseph Button		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	4-10-5-5	2/1.2	15	dry, medium dense, brown, (10yr 4/3) fine-medium sand and silt, bottom becoming mostly cinder/crushed brick/slag fill			0	
2	2	4	6-6-6-5	2/0	11	no recovery nose plug with large gravel			0	
4	3	6	4-6-7-6	2/2	13	1 foot dry, dusky brown (10yr 5/3) silt and sand. 1foot wet, medium dense black (10yr 2/1) fine/coarse sand and fine gravel, little silt. Little ash/cinder from crushed brick fragments	water @ fill	=	0	
6	4	8	4-6-8-5	2/1.2	14	wet, medium dense, very dark grayish brown (10yr 3/2) silt, some fine sand. Some zones with fine/coarse sand and fine gravel (with shell matter)- black (natural organic odor)	collect 2-jars (pent like) pent like brown silt	=	0	
8	5	10	3-4-5-7	2/2	9	moist, stiff, brown (10yr 3/3) silt, trace clay, mottled, yellow-brown (10yr 5/8) silt, fine sand, almost laminated, trace vegetable matter throughout	dense silt	=	0	
10	6	12	10-10-15 17	2/1.2	25	as above, becoming denser and finer with depth. Hard, silt and clay silt. Gray and brown. Very cohesive.		=	0	
12	7	14	7-12-7-8	2/2		as above		=	0	
								=	0	
								=	0	
								=	0	

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-100S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/12/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/13/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: J. Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	30-30-35-50	2.0/2.0	75	0-2.0 very dense, dry, medium gray (N5) and brownish gray (5YR 4/1) m-c SAND and s-m-l gravel, some silt	Fill	\ \	0.1	7/12/11 1350
2	2	4	32-22-19-8	2.0/1.5	37	0-1.0 SAA. 1.0-1.5 Dense, dry, brownish gray (5YR 4/1) SILT matrix supporting m-c sand and s-m gravel	Silt some gravel	\ \	0.0	1355
4	3	6	9-6-6-6	2.0/2.0	12	0-1.0 SAA (1.0-1.5) 1.0-2.0 medium, slightly moist, moderate yellowish brown (10YR 5/4) SILT		\ \	0.0	1406
6	4	8	5-5-5-5	2.0/1.5	10	0-1.5 SAA (1.0-2.0)	Silt	\ \	0.0	1410
8	5	10	2-2-2-2	2.0/1.0	4	0-1.0 SAA		\ \	0.0	1417
10	6	12	1-5-10-22	2.0/1.0	15	0-0.2 SAA 0.2-1.0 dense, dry, grayish brown(5YR 3/2) with light brown (5YR 5/6) and greenish gray m-c SAND and SILT supporting s-m-l angular gravel		\ \	0.0	1425
12	7	14	32-20-24-13	2.0/1.3	44	0-1.5 SAA (0.2-1.0)	Sand, gravel, silt	\ \	0.0	1428
14	8	16	5-8-6-7	2.0/1.5	14	0-1.5 SAA, not matrix supported Medium dense		\ \	0.0	1441
16	9	18	6-9-9-5	2.0/1.5	18	0-1.5 SAA		\ \	0.0	1445
18	10	20	2-4-6-5	2.0/1.2	10	0-1.2 SAA			0.0	1453
20	11	22	6-5-5-5	2.0/1.2	10	0-1.0 SAA			0.0	1500
22	12	24	5-4-5-4	2.0/1.5	9	0-1.5 SAA, saturated at about 23.0 feet below ground surface	Sand and gravel	=	0.0	1505
24	13	26	2-5-6-5	2.0/1.0	11	0-1.0 loose, saturated dark gray (N3) m-c SAND, some s-m subrounded gravel, little silt	Sand, gravel, silt	=	0.0	1515
26	14	28	5-5-5-4	2.0/2.0	10	0-2.0 SAA, increase in dark gray silt content		=	0.0	1520
28	15	30	13-5-6-5	2.0/1.0	11	0-1.0 SAA		=	0.0	1530
30	16	32	5-5-8-8	2.0/1.5	13	0-1.5 SAA slightly matrix supported by silt and m-c sand, greenish gray (5GY 6/1) and dusky red (5R 3/4) medium to course sand and silt grains mixed in		=	0.0	1534
						End of boring 32' bgs				

Well Construction (bgs)
Screen: 22-32 ft (10 slot)
Riser: +2.5-22 ft
#0 Sand: 20-32 ft
#00 Sand: 18-20 ft
Grout: 0-18 ft

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-101S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/13/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/13/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: J. Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	5-20-48-46	2.0/1.5	68	0-1.0 Dense, dry, medium light gray (N6) m-c SAND, some s-m-l angular gravel, little silt 1.0-1.5 dense, dry, brownish gray (5YR 4/1) SILT matrix supporting trace m-c sand	Fill	\ \	0.0	840
2	2	4	43-32-18-19	2.0/1.0	50	0-1.0 dense, dry grayish brown (5YR 3/2) SILT	Silt	\ \	0.0	845
4	3	6	2-5-7-8	2.0/1.0	12	0-1.0 stiff, dry, dark yellowish brown 10YR 4/2) SILT, matrix supporting very trace s-m gravel		\ \	0.0	857
6	4	8	7-5-8-5	2.0/1.5	16	0-1.5 SAA, little greenish gray (5GY 6/1) and dark reddish brown (10R 3/4) flecks of coloring throughout, increases in medium angular gravel	Silt and gravel	\ \	0.0	900
8	5	10	3-6-9-7	2.0/1.0	12	0-1.0 medium dense, dry, dark yellowish brown (10YR 3/4), with flecks of greenish gray (5GY 6/1) and dark reddish brown (10R 3/4) f-m-c SAND, some s-m gravel little large angular gravel, trace silt	Sand, gravel and silt	\ \	0.0	913
10	6	12	7-6-9-6	2.0/1.3	15	0-1.3 SAA		\ \	0.0	928
12	7	14	2.0/1.5	2.0/1.5	25	0-1.5 SAA		\ \	0.0	933
14	8	16	5-6-5-10	2.0/1.0	11	0-1.0 SAA, intervals< 0.1' that are matrix supported		\ \	0.0	943
16	9	18	6/12-13-10	2.0/1.1	25	0-1.1 SAA		\ \	0.0	946
18	10	20	26-13-8-7	2.0/1.5	21	0-1.5 SAA			0.0	1003
20	11	22	3-4-4-5	2.0/1.3	8	0-1.3 SAA			0.0	1012
22	12	24	6-4-4-4	2.0/1.7	8	0-1.7 SAA, wet to saturated at approx. 23.5'		=	0.0	1015
24	13	26	2-2-4-5	2.0/1.0	6	0-1.0 loose, saturated, greenish gray (5GY 6/1) and dusky red (5R 3/4) fine medium and course SAND (rounded), some s-m rounded gravel	Sand and Gravel	=	0.0	1027
26	14	28	5-6-6-5	2.0/2.0	12	0-1.0 SAA. 1.0-2.0 SAA, increase in silt content, slightly matrix supported, trace large rounded gravel		=	0.0	1030
28	15	30	8-10-10-11	2.0/1.5	20	0-1.5 medium dense, saturated, brownish gray (5YR 4/1) transitioning to dark gray (N3) medium to course SAND some s-m gravel, little silt trace large gravel		=	0.0	1042
30	16	32	3-8-11-11	2.0/1.0	19	0-1.0 medium dence saturated, dark gray (N3) f-m-c sand few s-m-l subrounded gravel, litthe silt		=	0.0	1051
						End of boring 32' bgs				
						Well Construction (bgs)				
						Screen: 22-32 ft (10 slot)				
						Riser: +2.5-22 ft				
						#0 Sand: 20-32 ft				
						#00 Sand: 18-20 ft				
						Grout: 0-18 ft				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-102S
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** Wastebed 13
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 7/14/2011
File No.: 1163/46698	**Fall:** 30"	**End Date:** 7/14/2011
Boring Company: Parratt-Wolff **Foreman:** Layne Pech **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	PID (ppm)	Time
0	1	2	17-32-40-50	2.0/2.0	72	0-0.5 dense, dry, dark yellowish gray(10YR 4/2) m-c SAND and s-m-l angular gravel, little silt 0.5-2.0 very dense, dark yellowish gray (10YR 4/2) SILT matrix supporting m-c sand and s-m-l angular gravel	Fill	\ \	2.6	907
2	2	4	68-53-34-24	2.0/1.5	87	0-1.5 SAA (0.5-2.0)	Silt and Gravel	\ \	1.1	917
4	3	6	10-10-15-10	2.0/1.5	25	0-1.5 medium dense, dry, dark yellowish brown (10Yr 4/2) f-m-c SAND some silt, few m-c subangular gravel flecks of greenish gray (5GY 6/1) and dusky red (5R 3/4) coloring through out	Sand, Gravel and silt	\ \	0.0	934
6	4	8	14-10-11-12	2.0/1.5	21	0-1.5 SAA		\ \	0.0	937
8	5	10	16-16-15-15	2.0/1.3	31	0-1.3 SAA		\ \	0.0	1017
10	6	12	14-13-14-13	2.0/1.8	27	0-1.8 SAA, intervals of slightly matrix supported		\ \	0.0	1027
12	7	14	10-11-12-14	2.0/1.5	23	0-1.5 SAA		\ \	0.0	1030
14	8	16	5-10-8-10	2.0/1.6	18	0-1.6 SAA		\ \	0.0	1039
16	9	18	7-8-8-8	2.0/1.6	16	0-1.6 SAA			0.0	1041
18	10	20	6-6-8-8	2.0/1.5	14	0-1.5 SAA			0.0	1051
20	11	22	6-7-7-6	2.0/1.5	14	0-1.5 SAA, wet at about 21.8' bgs		=	0.0	1058
22	12	24	6-8-6-7	2.0/1.5	14	0-1.5 SAA, saturated	Sand and Gravel	=	0.0	1100
24	13	26	4-11-9-10	2.0/1.3	20	0-1.3 SAA		=	0.0	1114
26	14	28	4-9-11-9	2.0/1.5	20	0-1.5 SAA		=	0.0	1118
28	15	30	17-12-10-17	2.0/1.5	22	0-1.5 SAA		=	0.0	1123
						End of Boring at 30 ft				
						Well Construction (bgs)				
						Screen: 20-30 ft				
						Riser: +2.5-20 ft				
						#0 Sand: 18-30 ft				
						#00 Sand: 16-18 ft				
						Grout: 0-16 ft				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-103S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/14/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/19/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	PID (ppm)	Field Testing Time
0	1	2	15-17-35-45	2.0/1.5	52	0-1.5 Very dense, dry, dark yellowish brown (10YR 4/2) and medium gray (N5) m-l angular GRAVEL, some m-c sand, little silt, trace f sand	Fill	\ \	0.0	7/14/11 1442
2	2	4	41-50/0.3'	0.8/0.8	>91	0-0.3 SAA. 0.3-0.8 Very hard ,dry, white (N9) to very light gray (N8) SILT sized particles and fine sand sized paricles, consolidated matrix	Solvay Waste	\ \	0.0	1445
4	3	6	26-16-76-80	2.0/1.5	92	0-1.5 Extremely dense, dry, medium light gray (N6) f-m SAND sized particles, cemented matrix		\ \	0.0	1515
6	4	8	10-22-22-50/0.3	1.8/1.8	44	0-1.8 SAA		\ \	0.0	1540
8	5	10	50/0.3'	0.3/0.3	>50	0-0.3 SAA		\ \	0.0	1600
10	6	12	5-28-40-10	2.0/1.5	68	0-1.5 SAA, wet		\ \	0.0	1610
12	7	14	2-3-4-10	2.0/0.2	7	0-0.2 SAA. Cemented piece stuck in nose of sampler		\ \	0.0	1615
14	8	16	2-2-6-2	2.0/1.0	8	0-1.0 SAA, consolidated matrix, medium dense		\ \	0.0	1627
16	9	18	6-14-2-2	2.0/1.2	16	0-2.0 SAA		\ \	0.0	1630
18	10	20	6-2-1-2	2.0/2.0	3	0-2.0 SAA		\ \	0.0	1638
20	11	22	1-9-4-3	2.0/2.0	13	0-2.0 SAA, greenish gray (5GY 6/1) mixed with white (N9)		\ \	0.0	1647
22	12	24	4-8-4-2	2.0/1.0	12	0-1.0 SAA		\ \	0.0	1650
24	13	26	2-2-7-2	2.0/2.0	9	0-2.0 Firm, wet, light gray (N7) medium dark gray (N4) SILT and SAND sized particles		\ \	1.5	7/15/11 840
26	14	28	2-6-8-11	2.0/2.0	14	0-2.0 Stiff, wet, light gray (N7) to medium dark gray (N4) bandy SILT and SAND sized particles in a slight cemented matrix		\ \	1.5	845
28	15	30	2-5-9-3	2.0/0.8	14	0-0.8 SAA		\ \	0.0	900
30	16	32	3-1-2-1	2.0/1.0	3	0-1.0 SAA (increase light gray (N7) to white (N9) and soft)		\ \	0.0	913
32	17	34	20-3-8-2	2.0/1.8	11	0-1.8 SAA, stiff, light gray (N7) to medium gray (N5)		\ \	0.2	920
34	18	36	26-8-4-4	2.0/0.5	12	0-0.5 SAA		\ \	0.0	930
36	19	38	4-4-4-52	2.0/2.0	8	0-2.0 SAA		\ \	0.0	935
38	20	40	9-5-4-3	2.0/0.4	9	0-0.4 SAA		\ \	0.0	950
40	21	42	3-3-5-2	2.0/2.0	8	0-2.0 SAA		\ \	0.0	1012
42	22	44	3-12-6-7	2.0/2.0	18	0-2.0 SAA hard		\ \	0.0	1020
44	23	46	4-5-5-3	2.0/0.1	10	0-0.1 SAA stiff		\ \	0.0	1027
46	24	48	10-18-20-23	2.0/0.2	38	0-0.2 SAA very hard		\ \	0.0	1036

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-103S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/14/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/19/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed				Field Testing PID (ppm)	Field Testing Time
48	25	50	18-32-52-23	2.0/2.0	84	0-1.0 Extremely hard, dry, dark yellowish brown (10YR 4/2) CLAY. 1.0-2.0 Hard dark yellowish brown to dusky brown (5Y 2/2) damp SILT and CLAY with trace f-m sand.	Silt and Clay		\		\	0.0	1110
50	26	52	3-12-11-11	2.0/1.75	23	0-0.25 Hard, damo, dark yellowish brown (10YR 4/2) CLAY. 0.25-1.75 hard, moist, moderate yellowish brown (10YR 5/4) Clayey SILT with many coarse distinct greenish black (5GY 4/1) mottling			\		\	0.0	1130
52	27	54	6-12-5-3	2.0/2.0	18	0-2.0 Hard, moist, olive gray (5Y 4/1) clayey SILT with common coars, distinct grayish black (N2) mottling			\		\	0.0	1136
54	28	56	6-55/0.0	1.0/1.0	>61	0-0.5 Very hard, dry, dark yellowish brown (10YR 4/2) CLAY. 0.5-1.0 very hard, damp, moderate yellowish brown (10YR 5/4) to olive gray (5Y 4/1) clayey SILT to SILT			\		\	0.0	1156
56	29	58	35-50/0.0	1.0/0.3	>85	0-0.3 Very hard, dry dark yellowish brown (10YR 4/2) CLAY with trace fine gravel, many coarse, distinct grayish black (N2) mottling. F-M angular gravel at bottom of spoon			\		\	0.0	1302
58	30	60	50/03	0.3/0.1	>50	0-0.1 Extremely dense, damp, olive gray (5Y 4/1) F-m-c angular GRAVEL and some silt with trace clay	Sand, silt and gravel		\		\	0.0	1332
60	31	62	9-26-23-15	2.0/0.75	49	0-0.75 Dense, saturated dark yellowish brown (10YR 4/2) f-m-c GRAVEL, little silt and fine sand	Silt, clay, gravel, trace sand		\		\	0.0	1403
60	32	62	60/0.5*	0.5/0.5	NA	0-0.5 Soft, saturated, dark yellowish brown (10YR 4/2) SILT, some clay, few m-l subrounded gravel, little m-c sand, trace large (~3") cobble	Sand, gravel, silt		\		\	0.0	7/19/11 914
62	33	64	13-36-30-20	2.0/0.5	66	0-0.5 Very dense, saturated s-m-l angular GRAVEL, some m-c sand, little siltm trace fine sand			\		\	0.0	935
64	34	66	5-41-46-18	2.0/1.0	87	0-1.0 SAA, wet to saturated						0.0	958
66	35	68	36-20-30-23	2.0/0.8	50	0-0.8 SAA, saturated, slightly matrix supported by silt and f-m sand						0.0	1005
68	36	70	13-25-35-18	2.0/1.0	60	0-1.0 Very dense, saturated, dark yellowish gray (10YR 4/2) m-c SAND and s-m-l angular gravel, trace silt	Sand and Gravel			=		0.0	1036
70	37	72	13-10-10-12	2.0/0.5	20	0-0.5 SAA, med dense				=		0.0	1100
72	38	74	17-12-19-15	2.0/1.0	31	0-1.0 SAA, dense				=		0.0	1115

* Denotes that a 3" split spoon was used to sample

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-103S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/14/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/19/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
74	39	76	11-11-9-9	2.0/1.3	20	0-1.3 Medium dense, saturated, dark yellowish brown (10YR 4/2) s-m GRAVEL, some m-c sand, few large subangular gravel, trace fine sand		=	0.0	1147
76	40	78	15-21-18-15	2.0/1.4	39	0-1.4 SAA		=	0.0	1155
						End of Boring at 78 ft				
						Well Construction (bgs) Screen: 68-78 ft (10 slot) Riser: +2.5-68 ft #0 Sand: 66-78 ft #00 Sand: 64-66 ft Grout: 0-64 ft				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-104I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/14/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/15/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy, Rick Navatka **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** \ **Sand Pack** \ **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	2-10-11-8	2.0/1/2	21	0.0'-1.2', pale brown (5YR 5/2) and medium gray SILT, little angular to sub-angular gravel, dry, medium dense, vegetation in upper portion	Fill	\		\	0.0	750
2	2	4	8-8-8-6	2.0/0.8	16	0.0'-0.8', moderate yellowish brown (10YR 5/4) SILT, little angular to sub-angular gravel, trace clay, wet, medium dense		\		\	0.0	759
4	3	6	3-3-3-4	2.0/0.0	6	No recovery	6'	\		\	NA	813
6	4	8	5-5-7-9	2.0/1.2	12	0.0'-1.2', grayish orange (10YR 7/4) CLAY, little silt, wet, medium dense, some oxide staining	Clay and Silt	\		\	0.0	818
8	5	10	3-5-6-7	2.0/1.4	11	0.0'-1.4', grayish orange (10YR 7/4) and dark yellowish orange (10YR 6/6) CLAY, little silt, wet, medium dense		\		\	0.0	835
10	6	12	2-2-5-8	2.0/1.1	7	0.0'-1.1', light brown (5YR 6/4) CLAY and SILT, trace very fine sand, saturated, medium dense		\		\	0.0	845
12	7	14	2-4-4-5	2.0/1.4	8	0.0'-1.4', pale brown (5YR 5/2) and light brown (5YR 6/4) CLAY, trace silt, wet, medium dense		\		\	0.0	1022
14	8	16	2-3-3-5	2.0/0.0	6	No recovery		\		\	NA	1031
16	9	18	2-2-3-1	2.0/2.0	5	0.0'-2.0', pale brown (5YR 5/2) and light brown (5YR 6/4) CLAY, trace silt, trace very fine sand, saturated, soft		\		\	0.0	1042
18	10	20	WH-0.5-1-2 3	2.0/2.0	3	0.0'-2.0', pale brown (5YR 5/2) CLAY, trace silt, saturated, soft		\		\	0.0	1046
20	11	22	WH-1.5-2	2.0/2.0	<1	0.0'-2.0', SAA, very soft		\		\	0.0	1056
22	12	24	2-3-3-3	2.0/2.0	6	0.0'-2.0', pale brown (5YR 5/2) CLAY, little silt, trace very fine sand, wet, soft	24'	\		\	0.0	1102
24	1	26	46-40-40-21	2.0/1.4	80	0.0'-1.4', dark yellowish orange (10YR 6/6), medium dark gray, and trace greenish gray (5G 6/1), fine-medium-coarse SAND and sub-angular to angular GRAVEL, wet, dense, oxide staining	Sand and Gravel	\		\	0.0	1422
26	2	28	17-30-17-24	2.0/1.5	47	0.0'-1.5', dark yellowish orange (10YR 6/6), pale brown (5YR 5/2), and greenish gray (5G 6/1), medium-coarse SAND and sub-angular to sub-rounded GRAVEL, trace silt, wet, dense, oxide staining		\		\	0.0	1430
28	3	30	17-18-15-15	2.0/0.7	33	0.0'-0.7', dark yellowish orange (10YR 6/6), greenish gray (5G 6/1), and brownish gray (5YR 4/1), medium-coarse SAND, and angular to sub-angular GRAVEL, trace silt, wet, medium dense		\		\	0.0	1450

Advanced 6' 1/4" HSA to 24.0' bgs with no sampling. Sample descriptions taken from SB915-MW-104S soil boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-104I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/14/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/15/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy, Rick Navatka **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
30	4	32	19-13-12-11	2.0/1.2	25	0.0'-1.2', dark yellowish orange (10YR 6/6), greenish gray (5G 6/1), and medium dark gray, fine-medium-coarse SAND, some sub-rounded gravel, trace silt, wet, dense, oxide staining	32'	\ \	0.0	1502
32	5	34	11-8-5-6	2.0/0.6	13	0.0'-0.6', dark yellowish orange (10YR 6/6) and medium dark gray to dark gray, angular to sub-rounded GRAVEL, trace silt and very fine sand, wet, loose	Gravel 34'	\ \	0.0	1507
34	6	36	14-9-8-12	2.0/0.9	17	0.0'-0.9', dark yellowish orange (10YR 6/6), greenish gray (5G 6/1), and medium dark gray to medium gray, fine-medium-coarse SAND, some angular to sub-rounded gravel, little silt, wet, medium dense, oxide staining	Sand and Gravel	\ \	0.0	1521
36	7	38	8-7-8-4	2.0/0.8	15	0.0'-0.8', dark yellowish orange (10YR 6/6), and medium light gray, sub-rounded to sub-angular GRAVEL, little fine-medium-coarse sand, trace silt, wet, loose		\ \	0.0	1527
38	8	40	NA-NA-NA-NA	2.0/0.0	NA	No recovery, broken rollerbit in the drill string		\ \	NA	1605
40	9	42	34-24-19-19	2.0/2.0	43	0.0'-2.0', dark yellowish orange (10YR 6/6), and medium dark gray to dark gray, medium-coarse SAND and fine-medium sub-rounded to sub-angular GRAVEL, trace silt, trace clay, matrix supported, wet, medium dense		\ \	0.0	1622
42	10	44	21-11-11-7	2.0/1.2	22	0.0'-2.0', SAA, saturated, loose		\ \	0.0	1634
44	11	46	14-9-15-10	2.0/0.8	24	0.0'-0.8', SAA, wet, medium dense, oxide staining		\ \	0.0	1648
46	12	48	11-8-10-8	2.0/0.9	18	0.0'-0.9', dark yellowish orange (10YR 6/6) and medium gray to medium light gray, fine-medium-coarse SAND and fine-medium-coarse angular to sub-rounded GRAVEL, trace silt, wet, very loose		\ \	0.0	1653
NA	NA	NA	NA-NA-NA-NA	NA	NA	Borehole abandoned at 48.0' bgs. Borehole moved due to risks associated with broken rollerbit along borehole wall. Advance 6' 1/4" HSA to 40.0' bgs with no sampling. Resume sampling at 40.0' bgs to confirm sample descriptions.		\ \	NA	NA
40	13	42	7-7-6-6	2.0/0.8	13	0.0'-0.8', dark yellowish orange (10YR 6/6), and medium dark gray to dark gray, medium-coarse SAND and fine-medium sub-rounded to sub-angular GRAVEL, trace silt, trace clay, matrix supported, wet, medium dense		\ \	0.0	2/15/20121 150
42	14	44	7-8-7-12	2.0/1.2	15	0.0'-1.2', SAA, saturated, loose		\ \	0.0	1201

Advanced 6' 1/4" HSA to 24.0' bgs with no sampling. Sample descriptions taken from SB915-MW-104S soil boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-104I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/14/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/15/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy, Rick Navatka **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
44	15	46	7-16-12-13	2.0/0.4	28	0.0'-0.4', light brown (5YR 6/4) fine-medium-coarse angular to sub-rounded GRAVEL, trace silt and fine sand, saturated, loose		\ \	0.0	1312
46	16	48	8-8-8-7	2.0/1.1	16	0.0'-1.1', dark yellowish orange (10YR 6/6) and medium gray to medium light gray, fine-medium-coarse SAND and fine-medium-coarse angular to sub-rounded GRAVEL, trace silt, wet, very loose		\ \	0.0	1317
48	17	50	35-14-12-18	2.0/1.1	26	0.0'-1.1', pale brown (5YR 5/2), dark yellowish orange (10YR 6/6), and medium dark gray, fine-medium-coarse angular to sub-rounded GRAVEL, some medium-coarse sand, trace silt, matrix supported, wet, medium dense		\ \	0.0	1336
50	18	52	23-18-18-13	2.0/0.6	36	0.0'-0.6', light brown (5YR 6/4) and medium dark gray, medium-coarse angular to sub-angular GRAVEL, trace fine-medium sand, trace silt, wet, loose		\ \	0.0	1354
52	19	54	9-12-12-9	2.0/1.0	24	0.0'-1.0', grayish orange (10YR 7/4), greenish gray (5G 6/1), and medium gray to medium dark gray, fine-medium-coarse SAND and fine-medium-coarse sub-angular to sub-rounded GRAVEL, little silt, matrix supported, moist, medium dense		\ \	0.0	1401
54	20	56	22-28-30-27	2.0/1.2	58	0.0'-1.2', SAA, wet, very dense		\ \	0.0	1422
56	21	58	15-10-9-7	2.0/0.7	19	0.0'-0.7', SAA, wet, loose to medium dense			0.0	1428
58	22	60	9-25-50/0.4	1.4/1.0	>75	0.0'-1.4', grayish orange (10YR 7/4) and medium gray to medium dark gray, angular to sub-rounded GRAVEL, some medium-coarse sand, trace silt, matrix supported, wet, very dense			0.0	1451
60	23	62	60/0.4	0.4/0.4	>60	0.0'-0.4', grayish orange (10YR 7/4) and medium gray, angular to subangular, medium-coarse GRAVEL, trace fine-medium sand, trace silt, saturated, loose	62'		0.0	1507
62	24	64	5-16-25-11	2.0/1.4	41	Grayish orange (10YR 7/4), medium dark gray to dark gray, f-m subangular to subrounded GRAVEL, little clay, trace fine sand and silt, matrix supported, wet, very dense	Gravel with Clay	=	0.0	1538
64	25	66	12-25-22-12	2.0/1.2	47	0.0'-1.2', SAA, wet, dense		=	0.0	1554

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-104I
Client: Honeywell **Proj. Loc:** Settling Basins 9-15 Camillus, NY **File No.:** 1163/48127	**Sampler:** 2" Split Spoon **Hammer:** 140-lb drop **Fall:** 30"	**Location:** SB915 **Start Date:** 2/14/2012 **End Date:** 2/15/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy, Rick Navatka **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
66	26	68	38-20-18-20	2.0/1.3	38	0.0'-1.3', grayish orange (10YR 7/4), medium dark gray, medium gray, and light brown (5YR 5/6), fine-medium-coarse angular to sub-rounded GRAVEL, little clay, trace silt, trace fine-medium sand, wet, very dense, oxide staining, matrix supported		=	0.0	1603
68	27	70	9-13-26-35	2.0/0.8	39	0.0'-0.8', SAA, wet, dense		=	0.0	1622
70	28	72	19-16-13-18	2.0/0.9	29	0.0'-0.9', grayish orange (10YR 7/4), medium gray, and medium dark gray, fine-medium sub-angular to rounded GRAVEL, little clay, trace silt, trace fine-medium sand, medium dense to dense, wet, matrix supported		=	0.0	1630
						End of Boring @ 72' bgs				
						Well Construction (bgs) Screen: 62-72 ft (10 slot) Riser: +2.5-62.0 ft #0 Sand: 60.0-72.0 ft #00 Sand: 57-60 ft Grout: 0-57 ft				

Advanced 6' 1/4" HSA to 24.0' bgs with no sampling. Sample descriptions taken from SB915-MW-104S soil boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-104S
Client: Honeywell **Proj. Loc: Settling Basins 9-15 Camillus, NY** **File No.: 1163/48127**	**Sampler: 2" Split Spoon** **Hammer: 140-lb drop** **Fall: 30"**	**Location: SB915** **Start Date: 2/14/2012** **End Date: 2/14/2012**
Boring Company: Parratt-Wolff **Foreman: Rick Navatka** **OBG Geologist: Rob Hornung**		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	PID (ppm)	Field Testing: Time
0	1	2	2-10-11-8	2.0/1.2	21	0.0'-1.2', pale brown (5YR 5/2) and medium gray SILT, little angular to sub-angular gravel, dry, medium dense, vegetation in upper portion	Fill	\ \	0.0	750
2	2	4	8-8-8-6	2.0/0.8	16	0.0'-0.8', moderate yellowish brown (10YR 5/4) SILT, little angular to sub-angular gravel, trace clay, wet, medium dense		\ \	0.0	759
4	3	6	3-3-3-4	2.0/0.0	6	No recovery	6'	\ \	NA	813
6	4	8	5-5-7-9	2.0/1.2	12	0.0'-1.2', grayish orange (10YR 7/4) CLAY, little silt, wet, medium dense, some oxide staining	Clay with Silt	\ \	0.0	818
8	5	10	3-5-6-7	2.0/1.4	11	0.0'-1.4', grayish orange (10YR 7/4) and dark yellowish orange (10YR 6/6) CLAY, little silt, wet, medium dense		\ \	0.0	835
10	6	12	2-2-5-8	2.0/1.1	7	0.0'-1.1', light brown (5YR 6/4) CLAY and SILT, trace very fine sand, saturated, medium dense			0.0	845
12	7	14	2-4-4-5	2.0/1.4	8	0.0'-1.4', pale brown (5YR 5/2) and light brown (5YR 6/4) CLAY, trace silt, wet, medium dense			0.0	1022
14	8	16	2-3-3-5	2.0/0.0	6	No recovery		=	NA	1031
16	9	18	2-2-3-1	2.0/2.0	5	0.0'-2.0', pale brown (5YR 5/2) and light brown (5YR 6/4) CLAY, trace silt, trace very fine sand, saturated, soft		=	0.0	1042
18	10	20	WH-0.5-1-2 3	2.0/2.0	3	0.0'-2.0', pale brown (5YR 5/2) CLAY, trace silt, saturated, very soft		=	0.0	1046
20	11	22	WH-1.5-2	2.0/2.0	<1	0.0'-2.0', SAA		=	0.0	1056
22	12	24	2-3-3-3	2.0/2.0	6	0.0'-2.0', pale brown (5YR 5/2) CLAY, little silt, trace very fine sand, wet, soft		=	0.0	1102
						End of Boring @ 24' bgs				

Well Construction (bgs)
Screen: 14-24 ft (10 slot)
Riser: +2.5-14 ft
#0 Sand: 12-24 ft
#00 Sand: 9-12 ft
Grout: 0-9 ft

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-105BR
Client: Honeywell **Proj. Loc:** Settling Basins 9-15 Camillus, NY **File No.:** 1163/48127	**Sampler:** 2" Split Spoon **Hammer:** 140-lb drop **Fall:** 30"	**Location:** SB915 **Start Date:** 11/9/2011 **End Date:** 11/15/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	1-6-6-9	2.0/1.7	12	0-1.7 Medium, moist, duskey yellowish brown (10YR 2/2) SILT, trace vegetation 0-0.2, trace f. Sand throughout	Silt, trace fine sand		0.0	825
2	2	4	10-11-15-19	2.0/1.5	26	0-1.5 SAA, trace woody material, naturally occuring			0.0	828
4	3	6	WR-7-15-17	2.0/1.0	22	0-0.8 SAA. 0.8-1.0 Hard, dry, pale yellowish brown (10YR 6/2) SILT matrix supporting mc sand, thinly laminated	4.8' Silt, thinly laminated		0.0	842
6	4	8	14-24-31-30	2.0/0.0	55	No recovery			NA	845
8	5	10	12-13-20-23	2.0/1.2	33	0-1.2 Hard, dry, pale yellowish brown (10YR 6/2) SILT, thinly laminated, some laminations are hard rock	9' Weathered Rock		0.0	1014
10	6	12	17-60/0.2	0.7/0.3	>77	0-0.3 SAA, dry			0.0	1016
12	7	14	27-50-50/0.1	1.1/1.1	>100	0-1.1 SAA, very hard, wet, dark yellowish brown (10YR 4/2)	13.8' Bedrock		0.0	1043
14	8	16	50/0.2	0.2/0.2	>50	0-0.2 Olive gray (5Y 4/1) SHALE			0.0	1100
16	-	18	-	-	-	Drilled to 18' and set 4" steel casing 0-18' bgs				
18	-	21	-	-	-	Used roller bit to drill down to 21' bgs				
21	-	63.4	-	-	-	Cored from 21' to 63.4' to find groundwater				
						See core log for details				
						Well Construction Details (bgs)				
						Screen: 48.4-63.4 ft				
						Riser: +2.5-48.4 ft				
						#0 Sand: 45.4-63.4 ft				
						#00 Sand: 42.4-45.4 ft				
						Grout: 0-42.4 ft				

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13202

CORE LOG

Hole No.: SB915-MW-105BR | Job No.: 48127 | Date: 11/10/11

Sheet 1 of 1 | Project: SB915 Closure

Formation / Member / Unit	Run No. / Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1	5 8 9 9	21.5 25.5	0-1.5 SHALE, dark yellowish brown (10YR 4/2) fine grain, thinly laminated. Fractures (horizontal) @ 0.15', 0.25', 0.8', 1.1', 1.2', 1.35', 1.4', 1.5'. All fractures weathered with trace clay deposits in 1.35 fracture, oxidation of clay. 1.5-4.0 SHALE, greenish gray (5GY 6/1) fine grain thinly laminated. Open vertical fracture from 1.5'-3.5' multiple horizontal fractures @ 1.8', 1.9'-2.2' highly fractured (crumbled) 2.3', 2.6', 2.89', 3.25', 3.4', and 3.5'. Highly weathered and fractured 3.5-4.0'. Lost ~150 gallons of water	4	100%	14%
	2	12 10 8 7 10	25.5 30.5	0-2.8' SHALE, greenish gray (5GY 6/1), fine grain, thinly laminated, highly fractured and highly weathered. 0-0.8' Highly fractured and mainly large gravel and small cobble size pieces of rock, more competent 0.8-2.2' fractures @ 1.0', 1.2', 1.35', 1.5', 1.65', 1.75', 2.0', 2.05'. Highly fractures and crumbled 2.2-2.7' 2.7-3.9' Color change to dark yellowish brown (10YR 4/2) fractures @ 2.9', 3.2', 3.6', 3.9'. 3.9-4.0 Greenish gray, highly weathered, soft. Lost ~200 gallons of water for whole run.	4	80%	10%
	3	7 10 8 10 7	30.5 35.5	0-4.0 SHALE, greenish gray (5GY 6/1) fine grain, thinly laminated, highly fractured and extremely weather. Zones of completely weathered rock down to silt and clay and rock fragments 3.0-3.8'. 3.8-4.0' multiple horizontal and vertical fractures throughout, main horizontal fractures @ 0.8', 1.1', 14', 1.8', 2.2', 2.4', 2.6'. Lost ~200 gallons of water for whole run.	4	80%	0%
	4		35.5 40.5	0-2.5' Highly weathered greenish gray (5GY 6/1) SHALE, weathered to soft silt and clay with m-c sand and smc, gravel sized rock fragments. Lost ~120 gallons of water for whole run.	2.5	50%	0%
	5		40.5 45.5	0-2.6 Highly weathered greenish gray (5GY 6/1) SHALE, weathered to soft silt and clay with medium to coarse sand and small to medium to large gravel sized rock fragments. Lost ~120 gallons of water.	2.6	51%	0%
	6		45.5 49.3	0-3.2 Highly weathered greenish gray (5GY 6/1) SHALE, weathered to soft silt and clay with medium to coarse sand and small to medium to large gravel sized rock fragments. Lost ~120 gallons of water.	3.2	65%	0%
	7		49.3 54.3	SHALE, greenish gray (5GY 6/1) fine grain, thinly laminated. 49.3-50.2 highly weathered and multiple horizontal and vertical fractures @ 50.4, 50.7, 51.1, 52.0, 52.3-54.3 Highly weathered and fractured mostly medium to large gravel sized fragments of rock and some silt and clay with medium to coarse sized rock fragments.	4.75	91%	13%

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13202

CORE LOG

Hole No.: SB915-MW-105BR | Job No.: 48127 | Date: 11/14/11

Sheet 1 of 2 | Project: SB915 Closure

Formation / Member / Unit	Run No. / Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	8		54.3 58.4	SHALE, greenish gray (5GY 6/1) 54.3-54.8 dark reddish brown (10R 3/4) 54.8-57.1, fine grain, thinly laminated, highly fractured and crumbled 54.3-54.8, more competant 54.8-55.3. Fractures @ 55.3, highly fractured and weathered 55.3-57.1.	3.8	75%	11%
	9		58.4 63.4	SHALE, dark reddish brown (10R 3/4) fine grain, thinly laminated 58.4-62.1 highly fractured, moderately weathered, horizontal fractures @ 58.9, 59.5, 59.8, highly weathered 61.4-62.0, color change to greenish gray (5GY 6/1) SHALE, fine grain, highly weathered mostly soft silt and clay, little medium to coarse sand and small to medium to large angular gravel size pieces of rock	4.8	95%	0%

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-105S
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 11/9/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 11/10/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	PID (ppm)	Field Testing Time
0	1	2	1-6-6-9	2.0/1.7	12	0-1.7 Medium, moist, duskey yellowish brown (10YR 2/2) SILT, trace vegetation 0-0.2, trace f. Sand throughout	Silt, trace fine sand		0.0	NA
2	2	4	10-11-15-19	2.0/1.5	26	0-1.5 SAA, trace woody material, naturally occuring	4'		0.0	NA
4	3	6	1-50/0.4	0.9/0.9	>51	0-0.6 Soft, moist, dusky yellowish brown (10YR 2/2), SILT, trace fine sand. 0.6-0.9 Hard, dry, pale yellowish brown (10YR 2/2), SILT.	Hard Silt	=	0.0	1348
6	4	8	25-22-22-6	2.0/1.0	44	SAA.		=	0.0	1414
8	5	10	15-29-30-32	2.0/1.0	59	SAA.		=	0.0	1417
10	6	12	9-26-26-50/0.3	1.8/1.2	52	SAA.		=	0.0	1431
12	7	14	27-50/0.3	0.8/0.8	>77	SAA.		=	0.0	1445
						End of Boring at 14 ft bgs.				
						Well Construction Details (bgs)				
						Screen: 4 - 14 ft bgs				
						Riser: +2.5 - 4 ft bgs				
						#0 Sand: 3 - 14 ft bgs				
						#00 Sand: 1-3 ft bgs				

Drilled to 4 ft bgs. Soil descriptions taken from SB915-MW-105BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-106I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/17/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/17/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy **OBG Geologist:** Rob Hornung		**Screen** = \ Grout **Riser** \ Sand Pack \ Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	4-6-12-10	2.0/1.3	18	0.0'-1.3', pale brown (5YR 5/2), light brown (5YR 6/4), light brownish gray (5YR 6/1), and light gray SILT, some medium coarse angular to sub-angular gravel, trace fine sand, dry, medium dense, vegetation in upper portion	Fill	\ \	0.0	749
							2'			
2	2	4	6-7-8-7	2.0/0.9	15	0.0'-0.9', pale brown (5YR 5/2), light brown (5YR 6/4), and medium light gray CLAY and SILT, little medium sub-angular to sub-rounded gravel, trace fine sand, wet, medium dense	Clay and Silt	\ \	0.0	755
4	3	6	2-2-4-6	2.0/0.0	6	No recovery	6'	\ \	NA	803
6	4	8	8-6-7-8	2.0/1.2	13	0.0'-1.2', pale reddish brown (10R 5/4) and medium gray CLAY, trace medium angular to sub-angular gravel, wet, medium dense	Clay	\ \	0.0	809
8	5	10	2-1-2-2	2.0/0.5	3	0.0'-0.5', pale reddish brown (10R 5/4) CLAY, trace medum sub-angular to sub-rounded gravel, wet, soft		\ \	0.0	817
10	6	12	2-1-2-3	2.0/0.1	3	0.0'-0.1', SAA		\ \	0.0	826
12	7	14	2-4-6-8	2.0/2.0	10	0.0'-2.0', pale reddish brown (10R 5/4) and light brown (5YR 6/4) CLAY, wet, medium dense		\ \	0.0	833
							14'			
14	8	16	3-2-3-5	2.0/1.0	5	0.0'-1.0', light brown (5YR 6/4), CLAY, little silt, wet, soft	Clay with Silt	\ \	0.0	846
16	9	18	7-7-9-8	2.0/2.0	16	0.0'-2.0', SAA, medium dense		\ \	0.0	851
18	1	20	2-2-3-3	2.0/2.0	5	0.0'-2.0', pale brown (5YR 5/2) CLAY, trace silt, moist, medium dense		\ \	0.0	1054
20	2	22	1-2-2-1	2.0/2.0	4	0.0'-2.0', SAA, wet, soft	22'	\ \	0.0	1106
22	3	24	2-3-3-2	2.0/2.0	6	0.0'-2.0', pale brown (5YR 5/2) CLAY, wet, very soft	clay	\ \	0.0	1111
24	4	26	WH-0.5-1-1-1	2.0/1.7	2	0.0'-1.7', SAA		\ \	0.0	1118
26	5	28	1-2-2-1	2.0/2.0	4	0.0'-2.0', SAA	28'	\ \	0.0	1127
28	6	30	WH-2.0	2.0/1.7	<1	0.0'-1.7', pale brown (5YR 5/2) CLAY, trace silt, wet, very soft	Clay with Silt		0.0	1136
30	7	32	WH-1.0-1-1	2.0/2.0	1	0.0'-2.0', pale brown (5YR 5/2) CLAY, trace silt, wet, very soft			0.0	1146
32	8	34	WH-1.0-2-3	2.0/2.0	2	0.0'-2.0', pale brown (5YR 5/2) CLAY, little silt, wet, very soft			0.0	1154
34	9	36	WH-2.0	2.0/2.0	<1	0.0'-2.0', pale brown (5YR 5/2) CLAY, some silt, wet, very soft		=	0.0	1258
36	10	38	WH-1.0-1-2	2.0/1.5	1	0.0'-1.5', pale brown (5YR 5/2) SILT, some clay, saturated, very soft		=	0.0	1304
38	11	40	2-5-5-6	2.0/2.0	10	0.0'-1.3', pale brown (5YR 5/2) CLAY and SILT, saturated, very soft, 1.3'-2.0', pale brown (5YR 5/2) SILT, trace clay, trace very fine sand, saturated, soft		=	0.0	1313
40	12	42	4-5-5-4	2.0/2.0	10	0.0'-2.0', pale brown (5YR 5/2) SILT, trace clay, trace very fine sand, saturated, soft		=	0.0	1325
42	13	44	WH-0.5-1-4-4	2.0/2.0	5	0.0'-2.0', SAA		=	0.0	1330
						End of Boring @ 44' bgs				

No samples were collected from 0-18' bgs. Sample descriptions are taken from SB915-MW-106S soil boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-106I
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 2/17/2012
File No.: 1163/48127	Fall: 30"	End Date: 2/17/2012
Boring Company: Parratt-Wolff Foreman: Joe Percy OBG Geologist: Rob Hornung		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
						Well Construction (bgs)				
						Screen: 34-44 ft (10 slot)				
						Riser: +2.5-34 ft				
						#0 Sand: 32-44 ft				
						#00 Sand: 29-32 ft				
						Grout: 0-29 ft				

Note: No samples were collected from 0-18'. Sample descriptions are from MW-106S

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-106S
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/17/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/17/2012
Boring Company: Parratt-Wolff **Foreman:** Rick Navatka **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	4-6-12-10	2.0/1.3	18	0.0'-1.3', pale brown (5YR 5/2), light brown (5YR 6/4), light brownish gray (5YR 6/1), and light gray SILT, some medium coarse angular to sub-angular gravel, trace fine sand, dry, medium dense, vegetation in upper portion	Fill	\ \	0.0	749
2	2	4	6-7-8-7	2.0/0.9	15	0.0'-0.9', pale brown (5YR 5/2), light brown (5YR 6/4), and medium light gray CLAY and SILT, little medium sub-angular to sub-rounded gravel, trace fine sand, wet, medium dense	2' Clay and Silt	\ \	0.0	755
4	3	6	2-2-4-6	2.0/0.0	6	No recovery	6'		NA	803
6	4	8	8-6-7-8	2.0/1.2	13	0.0'-1.2', pale reddish brown (10R 5/4) and medium gray CLAY, trace medium angular to sub-angular gravel, wet, medium dense	Clay		0.0	809
8	5	10	2-1-2-2	2.0/0.5	3	0.0'-0.5', pale reddish brown (10R 5/4) CLAY, trace medum sub-angular to sub-rounded gravel, wet, soft		=	0.0	817
10	6	12	2-1-2-3	2.0/0.1	3	0.0'-0.1', SAA		=	0.0	826
12	7	14	2-4-6-8	2.0/2.0	10	0.0'-2.0', pale reddish brown (10R 5/4) and light brown (5YR 6/4) CLAY, wet, medium dense	14'	=	0.0	833
14	8	16	3-2-3-5	2.0/1.0	5	0.0'-1.0', light brown (5YR 6/4), CLAY, little silt, wet, soft	Clay with Silt	=	0.0	846
16	9	18	7-7-9-8	2.0/2.0	16	0.0'-2.0', SAA, medium dense		=	0.0	851

End of Boring @ 18' bgs

Well Construction (bgs)
Screen: 8-18 ft (10 slot)
Riser: +2.0-8 ft
#0 Sand: 6-18 ft
#00 Sand: 3-6 ft
Grout: 0-3 ft

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-107BR
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 11/15/2011**
File No.: 1163/48127	**Fall: 30"**	**End Date: 12/2/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Doug Richmond		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	2-1-2-1	2.0/0.5	3	0-0.5 Soft, wet, light olive gray (5Y 6/1), SILT, trace m-c sand and little vegetation.	Silt, sand, vegetation	\		\	0.0	1527
2	2	4	4-5-4-7	2.0/2.0	9	0-0.5 SAA, moist. 0.5-2.0 Medium dense, moist, moderate yellowish brown (10YR 5/4), SILT, trace clay.	Silt	\		\	0.0	1530
4	3	6	4-4-6-7	2.0/2.0	10	SAA (0.5-2.0)		\		\	0.0	1542
6	4	8	7-9-9-9	2.0/2.0	18	SAA, wet.		\		\	0.0	1545
8	5	10	5-4-4-5	2.0/2.0	8	SAA, saturated, increasing clay content with depth.	10'	\		\	0.0	11/16/11 0915
10	6	12	1-2-2-2	2.0/2.0	4	Soft, saturated, brownish gray (5YR 4/1), SILT and CLAY, cohesive.	Silt & Clay	\		\	0.0	918
12	7	14	WH-WH-2-2	2.0/2.0	2	SAA, very cohesive.		\		\	0.0	940
14	8	16	WR-WR-WR-WR	2.0/2.0	<1	SAA, cohesive.		\		\	0.0	947
16	9	18	WH-WH-WH-WH	2.0/2.0	<1	SAA, very cohesive.		\		\	0.0	950
18	10	20	WH-WH-WH-WH	2.0/2.0	<1	SAA, moderately cohesive.		\		\	0.0	1018
20	11	22	WH-WH-WH-WH	2.0/2.0	<1	SAA, very cohesive.		\		\	0.0	1023
22	12	24	WH-WH-WH-WH	2.0/2.0	<1	SAA, cohesive, interbedded lenses of silt, some clay throughout.		\		\	0.0	1048
24	13	26	WH-WH-WH-WH	2.0/1.5	<1	SAA, increase in silt content.	26'	\		\	0.0	1055
26	14	28	WH-WH-WH-3	2.0/1.5	<1	Soft, saturated, brownish gray (5YR 4/1),SILT, few interbedded bands of clay.	Silt, some clay	\		\	0.0	1100
28	15	30	3-4-9-17	2.0/1.5	13	Stiff, saturated, brownish gray (5YR 4/1), f SAND and SILT.	Silt, F. Sand	\		\	0.0	1138
30	16	32	7-6-7-3	2.0/2.0	13	SAA, trace fine sand.		\		\	0.0	1145
32	17	34	2-2-3-1	2.0/2.0	5	SAA, few thin lenses of silt and clay.	Silt	\		\	0.0	1258
34	18	36	WH-WH-WH-WH	2.0/1.5	<1	SAA, no clay, silt only.		\		\	0.0	1313
36	19	38	6-1-1-4	2.0/2.0	2	Soft, saturated, brownish gray (5YR 4/1) SILT, trace clay in interbedded lenses.		\		\	0.0	1318
38	20	40	2-3-3-4	2.0/2.0	6	SAA, grading to silt and f sand with depth, no clay.	Silt & F. Sand	\		\	0.0	1350
40	21	42	3-3-6-6	2.0/2.0	9	Stiff, saturated, brownish gray (5YR 4/1) SILT and f SAND.		\		\	0.0	1358
42	22	44	2-6-6-14	2.0/2.0	12	0-1.5 SAA, few lenses of silt, some clay. 1.5-2.0 Medium dense, saturated, brownish gray (5YR 4/1) f-m SAND, little silt.	Fm Sand & Silt	\		\	0.0	1425
44	23	46	WH-3-3-7	2.0/1.2	6	0-1.6 Loose, saturated, brownish gray (5YR 4/1), f-m SAND, trace silt.		\		\	0.0	1440
46	24	48	5-6-9-9	2.0/1.5	15	SAA, medium dense, moist.		\		\	0.0	1444

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-107BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 11/15/2011
File No.: 1163/48127	Fall: 30"	End Date: 12/2/2011
Boring Company: Parratt-Wolff Foreman: Doug Richmond OBG Geologist: Jonathan Bone		Screen = \ Grout Riser \ Sand Pack \ Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
48	25	50	5-20-28-30	2.0/1.5	48	SAA, trace c sand and small gravel.	FMC Sand	\		\	0.0	1538
50	26	52	3-7-11-19	2.0/1.5	18	Medium dense, saturated, brownish gray (5YR 4/1) f-m-c SAND, little small gravel.	Sand & Gravel	\		\	0.0	1542
52	27	54	15-15-12-17	2.0/1.5	27	0-1.0 SAA, no gravel. 1.0-1.3 Stiff, saturated, brownish gray (5YR 4/1) SILT. 1.3-1.5 Medium dense, saturated, brownish gray (5YR 4/1), f-m-c SAND, trace small gravel.	FMC Sand, Silt, & Gravel	\		\	0.0	11/17 800
54	28	56	8-11-18-14	2.0/0.5	29	Medium dense, saturated, brownish gray (5YR 4/1) f-m-c SAND, subrounded, few s-m rounded gravel.		\		\	0.0	835
56	29	58	8-19-21-28	2.0/1.0	35	0-0.5 Very stiff, saturated, brownish gray (5YR 4/1) SILT. 0.5-1.0 Dense, saturated, medium gray (N5), greenish gray (5GY 6/1), and dusky red (9R 3/4) m-c SAND matrix supporting s-m angular to subrounded gravel.	Silt	\		\	0.0	840
58	30	60	35-28-36-20	2.0/1.0	64	Very dense, saturated, medium gray (N5) f-m-c SAND and s-m-c subangular gravel, trace silt, well graded.	Sand & Gravel	\		\	0.0	933
60	31	62	14-28-26-22	2.0/1.0	54	SAA.		\		\	0.0	940
62	32	64	20-16-16-19	2.0/1.3	32	SAA	64.6'	\		\	0.0	1039
64	33	66	15-12-19-24	2.0/1.5	31	0-0.6 SAA. 0.6-1.5 Hard, wet, grayish red (10YR 4/2) SILT matrix, supporting few small angular gravel, trace sand.	Till	\		\	0.0	1120
66	34	68	24-46-40/0.4	1.4/0.8	>96	SAA (0.6-1.5).		\		\	0.0	1130
68	35	70	25-35-41-60	2.0/1.2	76	0-1.2 SAA. Band of m-c sand and f-m-c angular gravel, little silt supporting sand and gravel.	70'	\		\	0.0	1315
70	36	72	41-35-30-48	2.0/0.8	65	Very dense, saturated, medum gray (N5) and grayish brown (5YR 3/2) m-c SAND and f-m-c GRAVEL, little silt, supporting sand and gravel.	Sand & Gravel	\		\	0.0	1320
72	37	74	53-50/0.3	0.8/0.8	>103	SAA, extremely dense.		\		\	0.0	1411
74	38	76	40-42-48-47	2.0/1.5	90	SAA.		\		\	0.0	1450
76	39	78	36-50/0.4	0.9/0.3	>86	SAA		\		\	0.0	1508
78	40	80	100-50-50-35	2.0/1.5	100	SAA.		\		\	0.0	1554
80	41	82	51-39-50/0.3	1.3/1.3	>89	SAA.		\		\	0.0	1610
82	42	84	NA-NA-NA-NA	NA	NA	Hard drilling 82-84, unable to drive spoon. Drill to 84 ft bgs, to resume sampling (hard and smooth drilling).		\		\	NA	11/18 0845

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-107BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 11/15/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 12/2/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** \ **Sand Pack** \ **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
84	43	86	52-60-52-50	2.0/1.5	112	SAA.		\ \	0.0	915
86	44	88	20-50/0.3	0.8/0.0	>70	No recovery		\ \	NA	923
88	45	90	42-50/0.3	0.8/0.2	>92	Greenish gray (5GY 6/1) SHALE in split spoon nose.		\ \	0.0	1031
90	46	92	30-32-47-50/0.2	1.7/1.7	>79	Very dense, saturated,medium gray (N5), f-m-c SAND, few m-c subrounded gravel, large chunks of greenish gray shale in split spoon nose.		\ \	0.0	1130
92	47	94	51-45-52-46	2.0/1.0	97	Extremely dense, saturated, medium gray (N5), f-m SAND with little silt matrix, supporting c sand and f-m-c angular gravel.	FM Sand & Silt, matrix supported Gravel	\ \	0.0	1318
94	48	96	24-27-25-24	2.0/1.5	62	Very dense, saturated, medium gray (N5) f-m-c SAND, few f-m gravel, grading to medium gray f-m sand, trace silt.	Sand & Gravel	\ \	0.0	1345
96	49	98	9-22-42-42	2.0/2.0	64	SAA.	FM Sand & Silt	\ \	0.0	1358
98	50	100	20-27-29-25	2.0/1.5	56	SAA.		\ \	0.0	1445
100	51	102	10-9-22-34	2.0/1.8	31	SAA.		\ \	0.0	1502
102	52	104	24-37-50/0.3	1.3/1.3	>87	Very dense, saturated, medium gray (N5) m-c SAND, some f sand, few f-m gravel, large piece of gravel in split spoon nose.	Sand & Gravel	\ \	0.0	11/21 0945
104	53	106	75/0.3	0.3/0.3	>75	SAA, slightly matrix supported bu silt and fine sand.	106'	\ \	0.0	1050
106	54	108	60/0.3	0.3/0.1	>60	Very dense, wet, grayish red (10R 4/2) SILT matrix supporting m-c sand and few f-m-c angular gravel.	Till	\ \	0.0	1130
108	55	110	106-50/0.3*	0.8/0.8	NA*	3 in spoon used. SAA.		\ \	0.0	1330
110	56	112	145/0.7*	0.7/0.7	NA*	3 in. spoon used. SAA. Drilled to 110 ft bgs with a 10 in roller bit. Set and grout 6 in steel casing 0-110 ft bgs.	113.2'	\ \	0.0	1420
112	57	114	41-65-50/0.2	1.2/1.2	>115	Very dense, moist, grayish red (10R 4/2) SILT matrix supporting m-c sand and few f-m-c angular to subangular gravel, piece of weathered greenish gray (5GY 6/1) shale in spoon nose.	Bedrock	\ \	0.0	11/30 1300
114	58	116	100/0.15	0.15/0.15	>100	Greenish gray (5GY 6/1) weathered SHALE.			0.0	1345
116	59	118	50/0.1	0.1/0.1	>50	SAA. 4 in. Steel casing set 0-117 ft bgs (4 ft into bedrock). Bedrock core from 117-130 ft bgs. See SB915-MW-107BR Core Log for details.			0.0	1441

*3 in Split Spoon **HQ Core Barrel

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-107BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 11/15/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 12/2/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
118		120	NA**	NA	NA**	SHALE		=		
120		122	NA**	NA	NA**	SHALE		=		
122		124	NA**	NA	NA**	SHALE		=		
124		126	NA**	NA	NA**	SHALE		=		
126		128	NA**	NA	NA**	SHALE		=		
128		130	NA**	NA	NA**	SHALE		=		
						End of Boring at 130 ft bgs				
						Well Construction Details:				
						Screen: 120-130 ft bgs				
						Riser: +2.5-120 ft bgs				
						Sandpack (#0 Sand): 118-130 ft bgs				
						Seal (#00 Sand): 115-118 ft bgs				
						Grout: 0-115 ft bgs				

**HQ Core Barrel

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13202

CORE LOG

Hole No.: SB915-MW-107BR | Job No.: | Date: 12/2/11

Sheet 1 of 1 | Project: SB915 Closure

Formation / Member / Unit	Run No. / Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1	18	117.0 120.0	SHALE; greenish gray (5GY 6/1) 117-117.8, medium gray (N5) 117.8-119.2, greenish gray 119.2-120.0; fine grained, thinly laminated; Horizontal fractures at 117.3, 117.4, 117.65, 117.8, 119.1; Highly fractured and moderately weathered 118.2-118.5 and 119.4-119.7.	2.85	94%	44%
	2	NA	120.0 125.0	SHALE; grrenish gray (5GY 6/1); fine grained, thinly laminated; Horizontal fractures at 120.1, 120.2, 120.55, 120.7, 121.1, 121.55, 122.0, 123.8, 124.3, 124.7; Highly fractured and moderately weathered with some gypsum remineralization and clay deposits at 121.1-123.4.	4.65	93%	46%
	3	NA	126.0 130.0	SHALE; greenish gray (5GY 6/1); fine grained, thinly laminated; Horizontal fractures at 125.3, 125.5, 125.8, 125.95, 126.1, 126.23, 126.3, 126.5, 126.7, 126.8, 126.9, 127.0, 127.25, 127.5, 127.65, 128.05, 128.9, 129.35, 129.75.	5	100%	38%

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-107D
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 12/8/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 12/8/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** \ **Sand Pack** \ **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	2-1-2-1	2.0/0.5	3	0-0.5 Soft, wet, light olive gray (5Y 6/1), SILT, trace m-c sand and little vegetation.	Silt, sand, vegetation	\		\	0.0	1527
2	2	4	4-5-4-7	2.0/2.0	9	0-0.5 SAA, moist. 0.5-2.0 Medium dense, moist, moderate yellowish brown (10YR 5/4), SILT, trace clay.	Silt	\		\	0.0	1530
4	3	6	4-4-6-7	2.0/2.0	10	SAA (0.5-2.0)		\		\	0.0	1542
6	4	8	7-9-9-9	2.0/2.0	18	SAA, wet.		\		\	0.0	1545
8	5	10	5-4-4-5	2.0/2.0	8	SAA, saturated, increasing clay content with depth.	10'	\		\	0.0	11/16/11 0915
10	6	12	1-2-2-2	2.0/2.0	4	Soft, saturated, brownish gray (5YR 4/1), SILT and CLAY, cohesive.	Silt & Clay	\		\	0.0	918
12	7	14	WH-WH-2-2	2.0/2.0	2	SAA, very cohesive.		\		\	0.0	940
14	8	16	WR-WR-WR-WR	2.0/2.0	<1	SAA, cohesive.		\		\	0.0	947
16	9	18	WH-WH-WH-WH	2.0/2.0	<1	SAA, very cohesive.		\		\	0.0	950
18	10	20	WH-WH-WH-WH	2.0/2.0	<1	SAA, moderately cohesive.		\		\	0.0	1018
20	11	22	WH-WH-WH-WH	2.0/2.0	<1	SAA, very cohesive.		\		\	0.0	1023
22	12	24	WH-WH-WH-WH	2.0/2.0	<1	SAA, cohesive, interbedded lenses of silt, some clay throughout.		\		\	0.0	1048
24	13	26	WH-WH-WH-WH	2.0/1.5	<1	SAA, increase in silt content.	26'	\		\	0.0	1055
26	14	28	WH-WH-WH-3	2.0/1.5	<1	Soft, saturated, brownish gray (5YR 4/1),SILT, few interbedded bands of clay.	Silt, some clay	\		\	0.0	1100
28	15	30	3-4-9-17	2.0/1.5	13	Stiff, saturated, brownish gray (5YR 4/1), f SAND and SILT.	Silt, F. Sand	\		\	0.0	1138
30	16	32	7-6-7-3	2.0/2.0	13	SAA, trace fine sand.		\		\	0.0	1145
32	17	34	2-2-3-1	2.0/2.0	5	SAA, few thin lenses of silt and clay.	Silt	\		\	0.0	1258
34	18	36	WH-WH-WH-WH	2.0/1.5	<1	SAA, no clay, silt only.		\		\	0.0	1313
36	19	38	6-1-1-4	2.0/2.0	2	Soft, saturated, brownish gray (5YR 4/1) SILT, trace clay in interbedded lenses.		\		\	0.0	1318
38	20	40	2-3-3-4	2.0/2.0	6	SAA, grading to silt and f sand with depth, no clay.	Silt & F. Sand	\		\	0.0	1350
40	21	42	3-3-6-6	2.0/2.0	9	Stiff, saturated, brownish gray (5YR 4/1) SILT and f SAND.		\		\	0.0	1358
42	22	44	2-6-6-14	2.0/2.0	12	0-1.5 SAA, few lenses of silt, some clay. 1.5-2.0 Medium dense, saturated, brownish gray (5YR 4/1) f-m SAND, little silt.	Fm Sand & Silt	\		\	0.0	1425
44	23	46	WH-3-3-7	2.0/1.2	6	0-1.6 Loose, saturated, brownish gray (5YR 4/1), f-m SAND, trace silt.		\		\	0.0	1440
46	24	48	5-6-9-9	2.0/1.5	15	SAA, medium dense, moist.		\		\	0.0	1444

No Samples collected from 0-96 ft bgs. Sample descriptions are from the SB915-MW-107BR boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-107D
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 12/8/2011
File No.: 1163/48127	Fall: 30"	End Date: 12/8/2011
Boring Company: Parratt-Wolff Foreman: Doug Richmond OBG Geologist: Jonathan Bone		Screen = \ Grout Riser \ Sand Pack \ Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
48	25	50	5-20-28-30	2.0/1.5	48	SAA, trace c sand and small gravel.	FMC Sand	\ \	0.0	1538
50	26	52	3-7-11-19	2.0/1.5	18	Medium dense, saturated, brownish gray (5YR 4/1) f-m-c SAND, little small gravel.	Sand & Gravel	\ \	0.0	1542
52	27	54	15-15-12-17	2.0/1.5	27	0-1.0 SAA, no gravel. 1.0-1.3 Stiff, saturated, brownish gray (5YR 4/1) SILT. 1.3-1.5 Medium dense, saturated, brownish gray (5YR 4/1), f-m-c SAND, trace small gravel.	FMC Sand, Silt, & Gravel	\ \	0.0	11/17 800
54	28	56	8-11-18-14	2.0/0.5	29	Medium dense, saturated, brownish gray (5YR 4/1) f-m-c SAND, subrounded, few s-m rounded gravel.		\ \	0.0	835
56	29	58	8-19-21-28	2.0/1.0	35	0-0.5 Very stiff, saturated, brownish gray (5YR 4/1) SILT. 0.5-1.0 Dense, saturated, medium gray (N5), greenish gray (5GY 6/1), and dusky red (9R 3/4) m-c SAND matrix supporting s-m angular to subrounded gravel.	Silt	\ \	0.0	840
58	30	60	35-28-36-20	2.0/1.0	64	Very dense, saturated, medium gray (N5) f-m-c SAND and s-m-c subangular gravel, trace silt, well graded.	Sand & Gravel	\ \	0.0	933
60	31	62	14-28-26-22	2.0/1.0	54	SAA.		\ \	0.0	940
62	32	64	20-16-16-19	2.0/1.3	32	SAA	64.6'	\ \	0.0	1039
64	33	66	15-12-19-24	2.0/1.5	31	0-0.6 SAA. 0.6-1.5 Hard, wet, grayish red (10YR 4/2) SILT matrix, supporting few small angular gravel, trace sand.	Till	\ \	0.0	1120
66	34	68	24-46-40/0.4	1.4/0.8	>96	SAA (0.6-1.5).		\ \	0.0	1130
68	35	70	25-35-41-60	2.0/1.2	76	0-1.2 SAA. Band of m-c sand and f-m-c angular gravel, little silt supporting sand and gravel.	70'	\ \	0.0	1315
70	36	72	41-35-30-48	2.0/0.8	65	Very dense, saturated, medum gray (N5) and grayish brown (5YR 3/2) m-c SAND and f-m-c GRAVEL, little silt, supporting sand and gravel.	Sand & Gravel	\ \	0.0	1320
72	37	74	53-50/0.3	0.8/0.8	>103	SAA, extremely dense.		\ \	0.0	1411
74	38	76	40-42-48-47	2.0/1.5	90	SAA.		\ \	0.0	1450
76	39	78	36-50/0.4	0.9/0.3	>86	SAA		\ \	0.0	1508
78	40	80	100-50-50-35	2.0/1.5	100	SAA.		\ \	0.0	1554
80	41	82	51-39-50/0.3	1.3/1.3	>89	SAA.		\ \	0.0	1610
82	42	84	NA-NA-NA-NA	NA	NA	Hard drilling 82-84, unable to drive spoon. Drill to 84 ft bgs, to resume sampling (hard and smooth drilling).		\ \	NA	11/18 0845

No Samples collected from 0-96 ft bgs. Sample descriptions are from the SB915-MW-107BR boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-107D
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 12/8/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 12/8/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
84	43	86	52-60-52-50	2.0/1.5	112	SAA.		\		\	0.0	915
86	44	88	20-50/0.3	0.8/0.0	>70	No recovery		\		\	NA	923
88	45	90	42-50/0.3	0.8/0.2	>92	Greenish gray (5GY 6/1) SHALE in split spoon nose.		\		\	0.0	1031
90	46	92	30-32-47-50/0.2	1.7/1.7	>79	Very dense, saturated,medium gray (N5), f-m-c SAND, few m-c subrounded gravel, large chunks of greenish gray shale in split spoon nose.		\		\	0.0	1130
92	47	94	51-45-52-46	2.0/1.0	97	Extremely dense, saturated, medium gray (N5), f-m SAND with little silt matrix, supporting c sand and f-m-c angular gravel.	FM Sand & Silt, matrix supported Gravel				0.0	1318
94	48	96	24-27-25-24	2.0/1.5	62	Very dense, saturated, medium gray (N5) f-m-c SAND, few f-m gravel, grading to medium gray f-m sand, trace silt.	Sand & Gravel				0.0	1345
96	49	98	6-8-34-50	2.0/0.8	NA	0-0.8 Very dense, saturated, medium gray (N5) f-m SAND, little silt	FM Sand & Silt		=		0.0	12/8/11 1310
98	50	100	48-50/0.4	2.0/0.8	>98	0-0.8 SAA, trace silt			=		0.0	1320
100	51	102	19-20-20-35	2.0/1.0	40	0-1.0 SAA, trace c. sand			=		0.0	1440
102	52	104	63/0.4	0.4/0.4	>63	0-0.4 Very dense, saturated, medium gray (N5) m-c SAND, some fine sand, few s-m gravel, large piece of gravel in split spoon nose.	Sand & Gravel		=		0.0	1505
104	53	106	7-47-40-50/0.4	1.8/1.0	>87	0-1.0 SAA, slightly matrix supported by silt and f sand			=		0.0	1540
						End of Boring at 106 ft bgs						
						Well Construction Details:						
						Screen: 96-106 ft bgs						
						Riser: +2.5-96 ft bgs						
						Sandpack (#0 Sand): 94-106ft bgs						
						Seal (#00 Sand): 92-94 ft bgs						
						Grout: 0-92 ft bgs						

No Samples collected from 0-96 ft bgs. Sample descriptions are from the SB915-MW-107BR boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-107I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 12/9/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 12/11/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** \ **Sand Pack** \ **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	2-1-2-1	2.0/0.5	3	0-0.5 Soft, wet, light olive gray (5Y 6/1), SILT, trace m-c sand and little vegetation.	Silt, sand, vegetation	\		\	0.0	1527
2	2	4	4-5-4-7	2.0/2.0	9	0-0.5 SAA, moist. 0.5-2.0 Medium dense, moist, moderate yellowish brown (10YR 5/4), SILT, trace clay.	Silt	\		\	0.0	1530
4	3	6	4-4-6-7	2.0/2.0	10	SAA (0.5-2.0)		\		\	0.0	1542
6	4	8	7-9-9-9	2.0/2.0	18	SAA, wet.		\		\	0.0	1545
8	5	10	5-4-4-5	2.0/2.0	8	SAA, saturated, increasing clay content with depth.	10'	\		\	0.0	11/16/11 0915
10	6	12	1-2-2-2	2.0/2.0	4	Soft, saturated, brownish gray (5YR 4/1), SILT and CLAY, cohesive.	Silt & Clay	\		\	0.0	918
12	7	14	WH-WH-2-2	2.0/2.0	2	SAA, very cohesive.		\		\	0.0	940
14	8	16	WR-WR-WR-WR	2.0/2.0	<1	SAA, cohesive.		\		\	0.0	947
16	9	18	WH-WH-WH-WH	2.0/2.0	<1	SAA, very cohesive.		\		\	0.0	950
18	10	20	WH-WH-WH-WH	2.0/2.0	<1	SAA, moderately cohesive.		\		\	0.0	1018
20	11	22	WH-WH-WH-WH	2.0/2.0	<1	SAA, very cohesive.		\		\	0.0	1023
22	12	24	WH-WH-WH-WH	2.0/2.0	<1	SAA, cohesive, interbedded lenses of silt, some clay throughout.		\		\	0.0	1048
24	13	26	WH-WH-WH-WH	2.0/1.5	<1	SAA, increase in silt content.	26'	\		\	0.0	1055
26	14	28	WH-WH-WH-3	2.0/1.5	<1	Soft, saturated, brownish gray (5YR 4/1),SILT, few interbedded bands of clay.	Silt, some clay	\		\	0.0	1100
28	15	30	3-4-9-17	2.0/1.5	13	Stiff, saturated, brownish gray (5YR 4/1), f SAND and SILT.	Silt, F. Sand	\		\	0.0	1138
30	16	32	7-6-7-3	2.0/2.0	13	SAA, trace fine sand.		\		\	0.0	1145
32	17	34	2-2-3-1	2.0/2.0	5	SAA, few thin lenses of silt and clay.	Silt	\		\	0.0	1258
34	18	36	WH-WH-WH-WH	2.0/1.5	<1	SAA, no clay, silt only.		\		\	0.0	1313
36	19	38	6-1-1-4	2.0/2.0	2	Soft, saturated, brownish gray (5YR 4/1) SILT, trace clay in interbedded lenses.		\		\	0.0	1318
38	20	40	2-3-3-4	2.0/2.0	6	SAA, grading to silt and f sand with depth, no clay.	Silt & F. Sand	\		\	0.0	1350
40	21	42	3-3-6-6	2.0/2.0	9	Stiff, saturated, brownish gray (5YR 4/1) SILT and f SAND.					0.0	1358
42	22	44	2-6-6-14	2.0/2.0	12	0-1.5 SAA, few lenses of silt, some clay. 1.5-2.0 Medium dense, saturated, brownish gray (5YR 4/1) f-m SAND, little silt.	Fm Sand & Silt				0.0	1425
44	23	46	WH-3-3-7	2.0/1.2	6	0-1.6 Loose, saturated, brownish gray (5YR 4/1), f-m SAND, trace silt.					0.0	1440
46	24	48	5-8-7-5	2.0/2.0	15	0-2.0 Soft, saturated, brownish gray (5YR 4/1) f-m SAND, trace silt	FM Sand		=		0.0	12/9/11 1207
48	25	50	5-6-2-2	2.0/2.0	8	0-2.0 SAA			=		0.0	1210
50	26	52	4-2-1-8	2.0/1.5	3	0-1.5 SAA, little silt			=		0.0	1230
52	27	54	9-7-16-20	2.0/1.5	23	0-1.3 SAA, little c. sand, trace silt. 1.3-1.5 Loose saturated, brownish gray (5YR 4/1) m-c SAND, little s-m gravel, trace f sand	FMC Sand, Silt		=		0.0	1235

No samples collected from 0-46', sample descriptions taken from SB915-MW-107BR boring log

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-107I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 12/9/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 12/11/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
54	28	56	18-14-12-17	2.0/1.0	26	0-1.0 SAA (1.3-1.5) little silt	Sand & Gravel	=	0.0	1255
						End of Boring at 56 ft bgs				
						Well Construction Details:				
						Screen: 46-56 ft bgs				
						Riser: +2.5-46 ft bgs				
						Sandpack (#0 Sand): 44-56ft bgs				
						Seal (#00 Sand): 40.5-44 ft bgs				
						Grout: 0-40.5 ft bgs				

No samples collected from 0-46', sample descriptions taken from SB915-MW-107BR boring log

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-107S
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 12/13/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 12/13/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ Grout **Riser** Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	2-1-2-1	2.0/0.5	3	0-0.5 Soft, wet, light olive gray (5Y 6/1), SILT, trace m-c sand and little vegetation.	Silt, sand, vegetation	\		\	0.0	1527
2	2	4	4-5-4-7	2.0/2.0	9	0-0.5 SAA, moist. 0.5-2.0 Medium dense, moist, moderate yellowish brown (10YR 5/4), SILT, trace clay.	Silt	\		\	0.0	1530
4	3	6	4-4-6-7	2.0/2.0	10	SAA (0.5-2.0)					0.0	1542
6	4	8	7-9-9-9	2.0/2.0	18	SAA, wet.					0.0	1545
8	5	10	5-4-4-5	2.0/2.0	8	SAA, saturated, increasing clay content with depth.	10'				0.0	11/16/11 0915
10	6	12	WH-WH-1-2	2.0/0.7	1	0-0.7 Very soft, saturated, brownish gray (5YR 4/1) SILT & CLAY, cohesive	Silt & Clay		=		0.0	12/13/11 0930
12	7	14	WH-2-2-2	2.0/2.0	4	0-2.0 SAA			=		0.0	933
14	8	16	4-5-5-5*	2.0/2.0	NA	0-2.0 SAA			=		0.0	948
16	9	18	3-2-4-5	2.0/0.5	6	0-0.5 SAA			=		0.0	953
18	10	20	3-WH-1-WH	2.0/1.0	1	0-1.0 SAA			=		0.0	1002
						End of Boring at 20 ft bgs						
						Well Construction Details:						
						Screen: 10-20 ft bgs						
						Riser: +2.5-10 ft bgs						
						Sandpack (#0 Sand): 8-20ft bgs						
						Seal (#00 Sand): 5-8 ft bgs						
						Grout: 0-5 ft bgs						

No samples collected from 0-10', sample descriptions taken from SB915-MW-107BR boring log

* Indicates that a 3 " split spoon was used

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-108BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 10/14/2011
File No.: 1163/48127	Fall: 30"	End Date: 1/4/2012
Boring Company: Parratt-Wolff Foreman: Doug Richmond OBG Geologist: Jonathan Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	5-6-4-3	2.0/1.7	10	0-0.3 Soft, moist, brownish gray (5YR 4/1) SILT, little fine to medium sand, trace coarse sand and vegetation. 0.3-1.0 Soft to loose, moist, black (N1) fmc SAND sized slag, little small gravel sized slag. 1.0-1.7 Firm, moist, light brown (5YR 5/6) SILT		\		\	0.0	10/14/11 1352
2	2	4	4-8-8-8	2.0/1.5	16	0-1.5 SAA (1.0-1.7)		\		\	0.0	1355
4	3	6	2-2-3-4	2.0/1.8	5	0-1.8 SAA		\		\	0.0	1403
6	4	8	4-5-5-6	2.0/1.5	10	0-1.5 SAA		\		\	0.0	1405
8	5	10	3-3-5-5	2.0/2.0	8	0-2.0 SAA		\		\	0.0	1415
10	6	12	4-2-2-3	2.0/2.0	4	0-0.5 SAA, little very fine sand. 0.5-2.0 Loose, moist, moderate yellowish brown (10YR 5/4) fine SAND		\		\	0.0	1423
12	7	14	2-4-3-4	2.0/1.8	7	0-1.8 Loose, moist, moderate yellowish brown (10YR 5/4) fine SAND		\		\	0.0	1425
14	8	16	3-3-4-4	2.0/1.3	7	0-1.3 SAA		\		\	0.0	1436
16	9	18	4-2-5-8	2.0/2.0	7	0-2.0 SAA, wet 16-17' Saturated 17-18'		\		\	0.0	1442
18	10	20	2-3-3-3	2.0/1.5	6	0-1.5 SAA, little silt		\		\	0.0	1450
20	11	22	6-5-5-15	2.0/1.2	10	0-1.0 Loose, saturated, dusky yellowish brown (10YR 2/2) fine SAND grading to fine to medium sand. 1.0-1.2 SAA, color, change to light brown (5YR 5/6)		\		\	0.0	10/17/11 0945
22	12	24	3-11-12-27	2.0/1.5	23	0-1.0 Loose, saturated, moderate brown (5YR 3/4) fine to medium to coarse SAND, little SILT, trace coarse sand and small gravel, subrounded 1.0-1.3 Stiff, moist, grayish red (10R 4/2) SILT with trace fine sand matrix supporting few coarse sand and small gravel, subangular 1.3-1.5 Medium dense, moist, dark yellowish brown (10YR 4/2) fine to medium to coarse SAND little silt supporting few small to medium angular gravel		\		\	0.0	948
24	13	26	12-12-22-26	2.0/1.2	34	0-1.2 Dense, saturated, brownish gray (5YR 4/1) and dark yellowish brown (10YR 4/2) fine to medium to coarse SAND and small to medium to large angular gravel, some silt, some intervals with silt matrix supporting sand and gravel		\		\	0.0	1015
26	14	28	8-8-17-12	2.0/0.8	25	0-0.8 Very dense, wet, grayish red (10R 4/2) SILT with trace fine sand matrix supporting trace medium to coarse angualr sand and small to medium subangular to subrounded gravel		\		\	0.0	1018

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-108BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 10/14/2011
File No.: 1163/48127	Fall: 30"	End Date: 1/4/2012
Boring Company: Parratt-Wolff Foreman: Doug Richmond OBG Geologist: Jonathan Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
28	15	30	4-1-8-15	2.0/1.0	15	0-1.0 SAA, stiff		\		\	0.0	1045
30	16	32	8-10-14-17	2.0/1.5	24	0-1.5 SAA, very stiff		\		\	0.0	1100
32	17	34	14-19-17-20-	2.0/0.8	36	0-0.8 SAA		\		\	0.0	1105
34	18	36	7-14-9-19	2.0/1.3	23	0-1.3 SAA		\		\	0.0	1135
36	19	38	13-14-16-16	2.0/1.0	30	0-1.0 SAA		\		\	0.0	1140
38	20	40	10-13-14-14	2.0/1.8	27	0-1.8 SAA		\		\	0.0	1245
40	21	42	5-6-13-15	2.0/2.0	19	0-2.0 SAA		\		\	0.0	1327
42	22	44	7-7-10-14	2.0/1.0	17	0-1.0 SAA		\		\	0.0	1330
44	23	46	9-15-19-16	2.0/1.5	34	0-1.5 SAA		\		\	0.0	1400
46	24	48	21-23-33-40	2.0/1.0	56	0-1.0 SAA		\		\	0.0	1405
48	25	50	23-42-50/0.3	1.3/0.3	>96	0-0.3 SAA, hard		\		\	0.0	1430
50	26	52	34-37-31-55	2.0/1.5	68	0-1.0 SAA 1.0-1.5 Increase in fine to medium sand content in matrix, interval of non matrix supported fine to medium sand 1.2-1.3'		\		\	0.0	1500
52	27	54	17-40-50/0.4	1.4/0.3	>90	0-0.3 Very dense, saturated brownish gray (5YR 4/1) fine to medium SAND, little silt		\		\	0.0	1510
54	28	56	22-25-23-30	2.0/1.5	50	0-1.5 SAA, fine to medium to coarse SAND, no silt, well graded, well rounded		\		\	0.0	1550
56	29	58	28-31-41-52	2.0/1.0	72	0-1.0 SAA, little coarse sand		\		\	0.0	1555
58	30	60	21-19-20-21	2.0/1.5	39	0-1.5 SAA		\		\	0.0	1620
60	31	62	16-25-25-50/0.4	1.9/1.4	50	0-0.9 SAA 0.9-1.4 Very dense, saturated, medium gray (N5) medium to coarse sand and small to meidum well rounded gravel, well graded.		\		\	0.0	10/18/11 848
62	32	64	52-50/0.2	0.8/0.8	>102	0-0.5 SAA, trace silt 0.5-0.8 Very desne, moist, grayish red (10R 4/2) SILT with trace clay matrix, supporting little medium to coarse sand and few small to medium angular greenish gray (5GY 6/1) shale pieces		\		\	0.0	900
64	33	66	40-50/0.2	0.7/0.5	>90	0-0.5 SAA (0.5-0.8)		\		\	0.0	938

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-108BR
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 10/14/2011**
File No.: 1163/48127	**Fall: 30"**	**End Date: 1/4/2012**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Doug Richmond		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
66	34	68	39-50/0.3	0.8/0.8	>89	0-0.4 Very dense, saturated, greenish gray (5GY 6/1) fine SAND, thin band (0.1') of dense grayish red (10R 4/2) SILT with trace clay matrix supporting little medium to coarse sand and small gravel. 0.4-0.8 Very dense, wet, grayish red (10R 4/2) SILT matrix and greenish gray (5GY 6/1) find SAND matrix supporting trace small to medium angular gravel		\		\	0.0	1010
68	35	70	59-60/0.2	0.7/0.7	>119	0-0.7 SAA, alternating intervals (0.2-0.3') of trace fine SAND and matrix supporting SILT within sand zones, some interbedding of grayish red silt		\		\	0.0	1055
70	36	72	*100/0.4	0.4/0.4	>100	0-0.4 Very dense, wet, grayish red (10R 4/2) SILT matrix, greenish gray (5GY 6/1) SILT and some clay matrix supporting fine and medium gravel, pieces of angular red and green shale		\		\	0.0	1130
						6" steel casing set at 0-68 ft bgs					NA	10/18/2011
72	37	74	33-50/0.4	0.9/0.9	>83	0-0.9 Very dense, moist, dark reddish brown (10R 3/4) SILT matrix supporting few coarse sand sized fragments of greenish gray (5GY 5/1) rock and medium to coarse sand		\		\	0.0	12/23/11 1045
74	38	76	50/0.3	0.3/0.3	>50	0-0.3 SAA, less greenish gray fragments, some dark reddish brown weathered rock fragments		\		\	0.0	1200
76	39	78	50-50/0.2	0.7/0.7	>100	0-0.5 SAA 0.5-0.7 Extremely hard, dry, greenish gray (5GY 6/1) very weathered shale		\		\	0.0	1330
78	40	80	*50/0.1	0.1/0.0	>50	No Recovery					NA	1400
80	41	82	*50/0.0	0.0/0.0	>50	No Recovery					NA	1/2/12 0905
						4" Steel Casing set 0-80 ft bgs. Cored Bedrock 80-93 ft bgs			=		NA	
82		84	-	-	-	Bedrock			=		NA	
84		86	-	-	-	Bedrock			=		NA	
86		88	-	-	-	Bedrock			=		NA	
88		90	-	-	-	Bedrock			=		NA	
90		92	-	-	-	Bedrock			=		NA	
92		94	-	-	-	Bedrock						
						End of Boring at 93 ft bgs						
						Well Construction Details:						
						Screen: 83-93 ft bgs						
						Riser: +2.5-83 ft bgs						
						Sandpack (#0 Sand): 81-93 ft bgs						
						Seal (#00 Sand): 78-81 ft bgs						
						Grout: 0-78 ft bgs						

*3" Split Spoon used

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13202

CORE LOG

Hole No.: SB915-MW-108BR | Job No.: 48127 | Date: 1/3/2012
Sheet 1 of 1 | Project: SB915 Closure

Formation / Member / Unit	Run No. / Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1		80.0 81.0 82.0 83.0 84.0	SHALE, medium dark gray (N4) fine grain, thinly laminated, slightly weather, fractures at 80.5', 80.40', 80.8', 81.4', 81.9', changeds to greenish gray (5GY 6/1) at 81.9', vertical fracture from 81.9' to 83.8', healed with gypsum, horizontal fractures at 83.8 and 84.1'.	4.7	93%	78%
	2		85.0 86.0 87.0 88.0 89.0	SHALE, greenish gray (5GY 6/1) fine grain, thinly laminated, horizontal fractures at 85.3', 85.8'. Vertical fracture 85.8 to 86.25, horizontal fractures at 86.25', 86.5', 86.6', 87.4', 86.5', 86.7', 88.55'. 88.8', 89.2', 89.3', 89.6'. Gypsum mineralization in fractures, not healed, slightly weathered.	5	100%	57%
	3		90.0 91.0 92.0 93.0	SHALE, greenish gray (5GY 6/1) fine grain, thinly laminated, horizontal fractures at 90.1', 90.5', 90.0', 91.1', 91.3', 91.7', 91.9', 92.1', 92.8'.	3.2	100%	41%

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-108D
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 1/5/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 1/5/2012
Boring Company: Parratt-Wolff **Foreman:** Rick Navodka **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	5-6-4-3	2.0/1.7	10	0-0.3 Soft, moist, brownish gray (5YR 4/1) SILT, little fine to medium sand, trace coarse sand and vegetation. 0.3-1.0 Soft to loose, moist, black (N1) fmc SAND sized slag, little small gravel sized slag. 1.0-1.7 Firm, moist, light brown (5YR 5/6) SILT		\		\	0.0	10/14/11 1352
2	2	4	4-8-8-8	2.0/1.5	16	0-1.5 SAA (1.0-1.7)		\		\	0.0	1355
4	3	6	2-2-3-4	2.0/1.8	5	0-1.8 SAA		\		\	0.0	1403
6	4	8	4-5-5-6	2.0/1.5	10	0-1.5 SAA		\		\	0.0	1405
8	5	10	3-3-5-5	2.0/2.0	8	0-2.0 SAA		\		\	0.0	1415
10	6	12	4-2-2-3	2.0/2.0	4	0-0.5 SAA, little very fine sand. 0.5-2.0 Loose, moist, moderate yellowish brown (10YR 5/4) fine SAND		\		\	0.0	1423
12	7	14	2-4-3-4	2.0/1.8	7	0-1.8 Loose, moist, moderate yellowish brown (10YR 5/4) fine SAND		\		\	0.0	1425
14	8	16	3-3-4-4	2.0/1.3	7	0-1.3 SAA		\		\	0.0	1436
16	9	18	4-2-5-8	2.0/2.0	7	0-2.0 SAA, wet 16-17' Saturated 17-18'		\		\	0.0	1442
18	10	20	2-3-3-3	2.0/1.5	6	0-1.5 SAA, little silt		\		\	0.0	1450
20	11	22	6-5-5-15	2.0/1.2	10	0-1.0 Loose, saturated, dusky yellowish brown (10YR 2/2) fine SAND grading to fine to medium sand. 1.0-1.2 SAA, color, change to light brown (5YR 5/6)		\		\	0.0	10/17/11 0945
22	12	24	3-11-12-27	2.0/1.5	23	0-1.0 Loose, saturated, moderate brown (5YR 3/4) fine to medium to coarse SAND, little SILT, trace coarse sand and small gravel, subrounded 1.0-1.3 Stiff, moist, grayish red (10R 4/2) SILT with trace fine sand matrix supporting few coarse sand and small gravel, subangular 1.3-1.5 Medium dense, moist, dark yellowish brown (10YR 4/2) fine to medium to coarse SAND little silt supporting few small to medium angular gravel		\		\	0.0	948
24	13	26	12-12-22-26	2.0/1.2	34	0-1.2 Dense, saturated, brownish gray (5YR 4/1) and dark yellowish brown (10YR 4/2) fine to medium to coarse SAND and small to medium to large angular gravel, some silt, some intervals with silt matrix supporting sand and gravel		\		\	0.0	1015
26	14	28	8-8-17-12	2.0/0.8	25	0-0.8 Very dense, wet, grayish red (10R 4/2) SILT with trace fine sand matrix supporting trace medium to coarse angualr sand and small to medium subangular to subrounded gravel		\		\	0.0	1018

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-108D
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 1/5/2012
File No.: 1163/48127	Fall: 30"	End Date: 1/5/2012
Boring Company: Parratt-Wolff Foreman: Rick Navodka OBG Geologist: Jonathan Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
28	15	30	4-1-8-15	2.0/1.0	15	0-1.0 SAA, stiff		\ \	0.0	1045
30	16	32	8-10-14-17	2.0/1.5	24	0-1.5 SAA, very stiff		\ \	0.0	1100
32	17	34	14-19-17-20-	2.0/0.8	36	0-0.8 SAA		\ \	0.0	1105
34	18	36	7-14-9-19	2.0/1.3	23	0-1.3 SAA		\ \	0.0	1135
36	19	38	13-14-16-16	2.0/1.0	30	0-1.0 SAA		\ \	0.0	1140
38	20	40	10-13-14-14	2.0/1.8	27	0-1.8 SAA		\ \	0.0	1245
40	21	42	5-6-13-15	2.0/2.0	19	0-2.0 SAA		\ \	0.0	1327
42	22	44	7-7-10-14	2.0/1.0	17	0-1.0 SAA		\ \	0.0	1330
44	23	46	9-15-19-16	2.0/1.5	34	0-1.5 SAA		\ \	0.0	1400
46	24	48	21-23-33-40	2.0/1.0	56	0-1.0 SAA		\ \	0.0	1405
48	25	50	23-42-50/0.3	1.3/0.3	>96	0-0.3 SAA, hard		\ \	0.0	1430
50	26	52	34-37-31-55	2.0/1.5	68	0-1.0 SAA 1.0-1.5 Increase in fine to medium sand content in matrix, interval of on matris supported fine to medium sand 1.2-1.3'		\ \	0.0	1500
52	1	54	22-36-35-42	2.0/2.0	71	0-2.0 Very dense, saturated, brownish gray (5YR 4/1) fine to medium to coarse SAND, trace silt		\ \	0.0	1/5/12 1120
54	2	56	25-25-40-50/0.3	1.8/1.5	65	0-1.5 Very dense, saturated, medium gray (N5) medium to coarse SAND, well rounded, and few small well rounded gravel, well sorted		\ \	0.0	1130
56	3	58	31-27-44-47	2.0/1.5	71	0-1.5 SAA, increase in fine sand		\ \	0.0	1150
58	4	60	20-18-22-27	2.0/1.5	40	0-1.5 Dense, saturated, brownish gray (5YR 4/1) fine to medium sand, few medium to large rounded gravel throughout		\ \	0.0	1338
60	5	62	15-22-34-55	2.0/1.5	56	0-1.5 SAA		\ \	0.0	1350
						End of Boring at 62 ft bgs				
						Well Construction Details: Screen: 52-62 ft bgs Riser: +2.5-52 ft bgs Sandpack (#0 Sand): 50-62 ft bgs Seal (#00 Sand): 47-50 ft bgs Grout: 0-47 ft bgs				

No Samples were collected from 0-52 ft bgs. Drilled to 52 ft bgs and started split spoon sampling. See SB915-MW-108BR log for details

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-108S
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 1/6/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 1/6/2012
Boring Company: Parratt-Wolff **Foreman:** Rick Navodka **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	5-6-4-3	2.0/1.7	10	0-0.3 Soft, moist, brownish gray (5YR 4/1) SILT, little fine to medium sand, trace coarse sand and vegetation. 0.3-1.0 Soft to loose, moist, black (N1) fmc SAND sized slag, little small gravel sized slag. 1.0-1.7 Firm, moist, light brown (5YR 5/6) SILT		\		\	0.0	10/14/11 1352
2	2	4	4-8-8-8	2.0/1.5	16	0-1.5 SAA (1.0-1.7)		\		\	0.0	1355
4	3	6	2-2-3-4	2.0/1.8	5	0-1.8 SAA		\		\	0.0	1403
6	4	8	4-5-5-6	2.0/1.5	10	0-1.5 SAA		\		\	0.0	1405
8	5	10	3-3-5-5	2.0/2.0	8	0-2.0 SAA		\		\	0.0	1415
10	6	12	4-2-2-3	2.0/2.0	4	0-0.5 SAA, little very fine sand. 0.5-2.0 Loose, moist, moderate yellowish brown (10YR 5/4) fine SAND					0.0	1423
12	7	14	2-4-3-4	2.0/1.8	7	0-1.8 Loose, moist, moderate yellowish brown (10YR 5/4) fine SAND					0.0	1425
14	8	15	3-3-4-4	2.0/1.3	1.3	0-1.3 SAA			=		0.0	1436
15	1	17	2-4-5-4	2.0/2.0	9	0-2.0 Loose, wet, moderate yellowish brown (10YR 5/4) fine SAND	Fine sand		=		0.0	1/6/12 1150
17	2	19	5-5-7-5	2.0/1.5	12	0-1.5 SAA, saturated			=		0.0	1154
19	3	21	1-2-2-1	2.0/2.0	4	0-2.0 SAA, trace silt			=		0.0	1213
21	4	23	3-4-4-4	2.0/2.0	8	0-2.0 SAA, little medium sand			=		0.0	1215
23	5	25	3-4-6-14	2.0/2.0	10	0-2.0 Loose, saturated, brownish gray (5YR 4/1) fine to medium sand	Fine medium sand		=		0.0	1218
						End of Boring at 25 ft bgs						
						Well Construction Details: Screen: 15-25 ft bgs Riser: +2.5-15 ft bgs Sandpack (#0 Sand): 13-25 ft bgs Seal (#00 Sand): 10-13 ft bgs Grout: 0-10 ft bgs						

No Samples were collected from 0-15 ft bgs. Drilled to 15 ft bgs and started split spoon sampling. See SB915-MW-108BR log for details

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-109I
Client: Honeywell **Proj. Loc:** Settling Basins 9-15 Camillus, NY **File No.:** 1163/48127	**Sampler:** 2" Split Spoon **Hammer:** 140-lb drop **Fall:** 30"	**Location:** SB915 **Start Date:** 2/1/2012 **End Date:** 2/2/2012
Boring Company: Parratt-Wolff **Foreman:** Rick Navatka **OBG Geologist:** Rob Hornung		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed				Field Testing PID (ppm)	Field Testing Time
0	1	2	2-3-7-7	2.0/1.0	10	0.0'-0.6', dark yellowish brown (10YR 4/2) organic SILT with vegetation, wet, soft, 0.6'-1.0', dark gray and black fine to medium SAND, little sub-rounded gravel, saturated, medium dense	Organic Silt with vegetation 0.6' Fill	\		\		0.0	1457
2	2	4	6-12-12-10	2.0/1.6	24	0.0'-1.6', dark gray and black fine to medium SAND, little sub-rounded gravel, saturated, dense	4.2'	\		\		0.0	1502
4	3	6	11-18-9-18	2.0/1.4	27	0.0'-0.2', SAA, medium dense, 0.2'-0.9', yellowish gray (5Y 8/1), bluish white (5B 9/1), and olive gray (5Y 4/1), SOLVAY WASTE, 0.9'-1.4', dark gray and black fine to medium SAND, trace gravel, saturated, medium dense	Solvay Waste 4.9' Fill	\		\		0.0	1517
6	4	8	12-10-11-24	2.0/2.0	21	0.0'-2.0', black and olive black (5Y 2/1) fine to medium SAND, trace sub-rounded gravel, wet, very dense, roots and vegetation in upper portion		\		\		0.0	1556
8	5	10	1-3-21-13	2.0/2.0	24	0.0'-2.0', black, olive black (5Y 2/1), and grayish yellow (5Y 8/4) fine to medium SAND, little sub-angular to sub-rounded gravel, saturated, loose to very dense		\		\		0.0	1613
10	6	12	12-16-13-8	2.0/0.8	29	0.0'-0.8', black and olive black (5Y 2/1) fine to medium SAND, some sub-angular gravel, saturated, medium dense		\		\		0.0	1626
12	7	14	1-2-1-2	2.0/2.0	3	0.0'-1.7', SAA, saturated, loose, 1.7'-2.0', pale brown (5YR 5/2) and dark yellowish brown (10YR 4/2) CLAY and SILT	13.7' Clay and Silt	\		\		0.0	1631
14	8	16	1-1-4-4	2.0/1.4	5	0.0'-1.2', dusky brown (5YR 2/2) and dusky yellowish brown (10YR 2/2) CLAY and SILT, wet, soft, 1.2'-1.4' light brown (5YR 5/6) organics and peat		\		\		0.0	1646
16	9	18	3-3-4-4	2.0/1.2	7	0.0'-1.2' pale brown (5YR 5/2) and dusky brown (5YR 2/2) CLAY and SILT, wet, soft		\		\		0.0	1658
18	10	20	WH-2.0	2.0/2.0	<1	0.0'-2.0' pale brown (5YR 5/2) CLAY, little silt, trace fine sand, wet, soft		\		\		0.0	2/2/12 814
20	11	22	2-3-1-1	2.0/1.2	4	0.0'-0.5', pale red (10R 6/2) CLAY, little silt, 0.5'-1.2', grayish brown (5YR 3/2) CLAY, little silt, trace fine sand, wet, soft		\		\		0.0	824
22	12	24	3-4-5-5	2.0/2.0	9	0.0'-1.3', SAA, very soft, saturated, 1.3'-2.0', pale brown (5YR 5/2), fine SAND, little silt, medium dense	23.3' Sand with Silt	\		\		0.0	847
24	13	26	WH-1.5-1	2.0/1.3	<1	0.0'-1.3', pale brown (5YR 5/2) and brownish black (5YR 2/1), fine SAND, little silt, trace clay, wet, soft		\		\		0.0	853
26	14	28	3-4-5-6	2.0/1.7	9	0.0'-1.7', pale brown (5YR 5/2) and brownish black (5YR 2/1), fine SAND, trace silt, wet, soft		\		\		0.0	900
28	15	30	WH-1.0-2-3	2.0/1.3	2	0.0'-1.3', SAA, saturated, soft		\		\		0.0	910

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-109I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/1/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/2/2012
Boring Company: Parratt-Wolff **Foreman:** Rick Navatka **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
30	16	32	WH-0.5-3-3-4	2.0/1.0	6	0.0'-1.0', pale brown (5YR 5/2), fine SAND, trace silt, wet, soft		\ \	0.0	919
32	17	34	4-4-5-6	2.0/2.0	9	0.0'-2.0', SAA, wet, medium dense	34.0'	\ \	0.0	927
34	18	36	8-15-11-10	2.0/2.0	26	0.0'-2.0', dusky yellow (5Y 6/4) and pale yellowish brown (10YR 6/2), medium to coarse SAND, moist, dense	Sand	\ \	0.0	946
36	19	38	7-8-7-8	2.0/2.0	15	0.0'-2.0', SAA, wet, medium dense	38.0'	\ \	0.0	1003
38	20	40	WH-1.0-2-3	2.0/2.0	2	0.0'-2.0', pale red (5R 6/2) SILT, little very fine sand, trace clay, saturated, soft	Silt		0.0	1017
40	21	42	WH-1.0-2-2	2.0/0.6	2	0.0'-0.6', SAA, saturated, soft			0.0	1031
42	22	44	3-1-2-3	2.0/2.0	3	0.0'-2.0', SAA, wet, soft		=	0.0	1037
44	23	46	WH-2.0	2.0/2.0	<1	0.0'-2.0', SAA, saturated, soft		=	0.0	1058
46	24	48	WH-2.0	2.0/2.0	<1	0.0'-2.0', SAA, saturated, soft		=	0.0	1106
48	25	50	WH-1.0-6-8	2.0/2.0	6	0.0'-1.2', SAA, 1.2'-2.0', moderate reddish orange (10R 6/6), fine to medium SAND, trace sub-angular to sub-rounded gravel, saturated, loose	49.2' Sand and Gravel	=	0.0	1124
50	26	52	WH-0.5-5-10-8	2.0/1.1	15	0.0'-1.1', moderate reddish orange (10R 6/6) fine to medium SAND, trace sub-angular to sub-rounded gravel, saturated, loose to medium dense		=	0.0	1142
52	27	54	9-14-75/0.5	1.5/1.5	14	0.0'-1.0', pale brown (5YR 5/2) and pale yellowish brown (10YR 6/2), fine to medium SAND, trace sub-rounded gravel, saturated, medium dense, 1.0'-1.5', pale reddish brown (10R 5/4) CLAY, dry, very dense	53.0' Till	=	0.0	1243
54	28	54.3	50/0.3	0.3/0.3	>50	0.0'-0.3', pale reddish brown (10R 5/4) CLAY, dry, very dense			0.0	1301
						End of Boring @ 54.3' bgs				

Well Construction (bgs)
Screen: 43-53 ft (10 slot)
Riser: +2.5-43.0 ft
#0 Sand: 41-53 ft
#00 Sand: 38-41 ft
Grout: 0-38 ft

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-109S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/3/2012**
File No.: 1163/48127	**Fall: 30"**	**End Date: 2/3/2012**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Rick Navatka		**Riser Sand Pack**
OBG Geologist: Rob Hornung		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	2-3-7-7	2.0/1.0	10	0.0'-0.6', dark yellowish brown (10YR 4/2) organic SILT with vegetation, wet, soft, 0.6'-1.0', dark gray and black fine to medium SAND, little sub-rounded gravel, saturated, medium dense	Organic Silt with Vegetation 0.6' Fill	\ \	0.0	NA
2	2	4	6-12-12-10	2.0/1.6	24	0.0'-1.6', dark gray and black fine to medium SAND, little sub-rounded gravel, saturated, dense		\ \	0.0	NA
4	1	6	10-13-15-10	2.0/2.0	28	0.0'-2.0', brownish black (5YR 2/1) and olive gray (5Y 4/1) medium-coarse SAND, little angular gravel, trace silt, saturated, very dense, roots and vegetation in upper portion		=	0.0	2/3/12 1105
6	2	8	15-15-18-15	2.0/2.0	33	0.0'-2.0', grayish black and brownish black (5YR 2/1) medium-coarse SAND, some sub-rounded to sub-angular gravel, saturated, very dense		=	0.0	1114
8	3	10	7-7-11-12	2.0/2.0	18	0.0'-2.0', SAA, saturated, medium dense		=	0.0	1129
10	4	12	10-10-10-4	2.0/2.0	20	0.0'-2.0', SAA		=	0.0	1142
12	5	14	3-2-3-3	2.0/1.5	5	0.0'-1.0', brownish black (5YR 2/1) and olive black (5Y 2/1) fine-medium-coarse SAND, trace sub-rounded to sub-angular gravel, 1.0'-1.5', pale brown (5YR 5/2) CLAY and SILT, wet, soft	13.0' Clay and Silt	=	0.0	1148
						End of Boring @ 14' bgs				
						Well Construction (bgs) Screen: 4-14 ft (10 slot) Riser: +2.5-4 ft #0 Sand: 3-14 ft #00 Sand: 2-3 ft Grout: 0-2 ft				

Advance 6' 1/4" hollow stem augers to 4.0' bgs with no sampling. Sample descriptions above taken from SB915-MW-109I soil boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-110S
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/6/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/6/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	4-5-8-8	2.0/1.6	13	0.0'-1.6', pale brown (5YR 5/2) and dark yellowish brown (10YR 4/2) organic rich SILT and CLAY, trace sub-angular gravel, dry, medium dense, vegetation in upper portion	Silt and Clay	\ \	0.0	1058
2	2	4	11-8-7-7	2.0/1.9	15	0.0'-1.9', pale brown (5YR 5/2) and olive gray (5Y 4/1) organic rich SILT and CLAY, dry in upper portion, wet at basal end, medium dense			0.0	1101
4	3	6	2-1-2-3	2.0/0.8	3	0.0'-0.8', brownish gray (5YR 4/1) SILT and CLAY, trace fine sand, wet, soft			0.0	1110
6	4	8	3-2-3-2	2.0/0.0	5	No recovery			NA	1115
8	5	10	2-1-1-2	2.0/0.0	2	No recovery		=	NA	1119
10	6	12	1-2-3-3	2.0/1.2	5	0.0'-1.2', pale brown (5YR 5/2) CLAY, little silt, trace fine sand, wet, soft		=	0.0	1127
12	7	14	5-7-7-9	2.0/2.0	14	0.0'-2.0', SAA, trace silt and fine sand, wet, medium dense		=	0.0	1131
14	8	16	2-2-2-2	2.0/1.8	4	0.0'-1.8', SAA, trace silt, no sand, wet, soft		=	0.0	1139
16	9	18	4-4-4-5	2.0/1.7	8	0.0'-1.7', SAA		=	0.0	1145
						End of Boring @ 18' bgs				
						Well Construction (bgs)				
						Screen: 8-18 ft (10 slot)				
						Riser: +2.5-8 ft				
						#0 Sand: 6-18 ft				
						#00 Sand: 3-6 ft				
						Grout: 0-3 ft				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-111BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/10/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 1/16/2012
Boring Company: Parratt-Wolff **Foreman:** Rick Navatka, Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** \ **Sand Pack** \ **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	4-7-6-4	2.0/0.2	13	0.0'-0.2', brownish black (5YR 2/1) SILT, trace fine sand, some thin roots and vegetation	Organic rich Silt	\		\	0.0	1320
2	2	4	6-3-2-2	2.0/0.0	5	No recovery	4'	\		\	NA	1322
4	3	6	WH-1.5-3	2.0/0.4	<1	0.0'-0.4', dark yellowish brown (10YR 4/2) SILT and CLAY, coarse sand sized balls of silt throughout, moist, soft	Silt and Clay	\		\	0.0	1330
6	4	8	2-2-4-3	2.0/1.0	6	0.0'-0.5', SAA, 0.5'-1.0', grayish brown (5YR 3/2) SILT, trace clay	6.5' Silt	\		\	0.0	1335
8	5	10	WH-1.0-2-2	2.0/1.2	2	0.0'-1.2', SAA, very trace clay, little fine sand, trace small shells	10'	\		\	0.0	1343
10	6	12	WH-2.0	2.0/1.8	<1	0.0'-1.8', grayish brown (5YR 3/2) SILT, some fine sand, trace white shells, very trace thin vegetation, moist-wet	Silt with Fine Sand and Vegetation	\		\	0.0	1352
12	7	14	WH-1.0-3-3	2.0/2.0	3	0.0'-2.0', SAA, increase in fine sand and shell content, little thin layers of organic vegetation		\		\	0.0	1357
14	8	16	WH-1.5-1	2.0/1.6	<1	0.0'-1.4', SAA, 1.4'-1.6', brownish gray (5YR 6/1), SILT and CLAY, cohesive	16'	\		\	0.0	1405
16	9	18	1-2-1-2	2.0/2.0	3	0.0'-2.0', light brownish gray (5YR 6/1), SILT, little fine sand, trace clay	Silt with Fine Sand	\		\	0.0	1413
18	10	20	WH-1.0-1-2	2.0/2.0	1	0.0'-2.0', SAA		\		\	0.0	1418
20	11	21	4-1	2.0/1.0	1	0.0'-1.0', SAA		\		\	0.0	1626
21	12	23	WH-1.0-2-2	2.0/2.0	2	0.0'-2.0', light brownish gray (5YR 6/1), SILT, little fine sand, trace clay	23.8'	\		\	0.0	1629
23	13	25	2-5-5-7	2.0/1.0	10	0.0'-0.8', SAA, 0.8'-1.0', brownish gray (5YR 4/1), fine to medium SAND, saturated, loose	Fine to Medium Sand	\		\	0.0	1644
25	14	27	2-2-6-8	2.0/2.0	8	0.0'-2.0', SAA		\		\	0.0	1650
27	15	29	5-7-10-15	2.0/1.2	17	0.0'-1.2', SAA		\		\	0.0	10/11/11 0848
29	16	31	2-7-7-9	2.0/1.2	14	0.0'-1.2', SAA, with fine SAND from 0.6'-1.2'		\		\	0.0	853
31	17	33	4-5-6-7	2.0/1.3	11	0.0'-0.4', SAA, 0.4'-1.3', brownish gray (5YR 4/1) fine to medium SAND, little well rounded coarse sand, well graded	31.4' Fine-Medium-Coarse Sand	\		\	0.0	913
33	18	35	3-4-9-7	2.0/1.3	13	0.0'-1.3', SAA		\		\	0.0	929
35	19	37	4-6-7-7	2.0/1.4	13	0.0'-.1.4', SAA, trace coarse sand		\		\	0.0	934
37	20	39	2-4-6-10	2.0/1.0	10	0.0'-1.0', SAA		\		\	0.0	1012
39	21	41	3-6-9-14	2.0/1.5	15	0.0'-1.5', SAA	41'	\		\	0.0	1017
41	22	43	4-7-9-11	2.0/1.3	16	0.0'-1.3', brownish gray (5YR 4/1) fine SAND, saturated, medium dense	Fine Sand	\		\	0.0	1045
43	23	45	3-5-6-9	2.0/1.3	11	0.0'-1.3', SAA, trace silt	45'	\		\	0.0	1104

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-111BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 10/10/2011
File No.: 1163/48127	Fall: 30"	End Date: 1/16/2012
Boring Company: Parratt-Wolff Foreman: Rick Navatka, Doug Richmond OBG Geologist: Jonathan Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
45	24	47	4-5-8-7	2.0/1.5	13	0.0'-1.5', brownish gray (5YR 4/1), greenish gray (5GY 6/1), and dark reddish brown (10R 3/4) grains of fine-medium-coarse SAND, sub-rounded to rounded trace small gravel	Fine-Medium-Coarse Sand	\		\	0.0	1105
							47'					
47	25	49	4-7-15-31	2.0/1.3	22	0.0'-1.3', SAA, increase in small to medium sub-rounded gravel	Sand and Gravel	\		\	0.0	1250
49	26	51	37-51-37-52	2.0/2.0	88	0.0'-2.0', SAA, some small-medium-large sub-rounded to angular gravel, well graded, very dense					0.0	1300
51	27	53	24-32-51	1.5/1.2	32	0.0'-1.2', SAA, decrease in fine SAND, very dense					0.0	1352
53	28	55	33-43-33-49	2.0/1.5	76	0-1.5 SAA					NA	1450
55	29	57	43-60/0.4	0.9/0.9	>103	0-0.9 SAA, increase in medium-large angular gravel					NA	1508
57	30	59	43-50-38-50	2.0/0.9	88	0-1.5 SAA, some rounded and subrounded gravel					0.0	1618
59	31	61	25-38-44-36	2.0/0.5	82	0-0.5 SAA					0.0	1630
61	32	63	14-20-25-27	2.0/1.5	45	0-1.5 Dense, saturated, medium gray (N5) medium-course SAND (rounded), some fine sand, few small rounded gravel, well graded					0.0	10/12/11 0915
63	33	65	20-23-24-27	2.0/1.5	47	0-1.5 SAA					0.0	955
65	34	67	20-27-36-32	2.0/1.6	63	0-1.6 SAA, trace large subrounded gravel					0.0	1007
67	35	69	25-35-47-32	2.0/1.5	82	0-1.5 SAA, medium-course SAND, varies in color, medium gray (N5) greenish gray (5GY 6/1) and dark reddish brown (10R 3/4) slightly matrix supported by fine-medium-course sand and trace silt (1.0-1.5)					0.0	1100
69	36	71	27-26-35-45	2.0/1.5	61	0-1.5 SAA, not matrix supported					0.0	1115
71	37	73	32-27-29-24	2.0/1.5	56	0-1.5 Very dense, saturated, medium gray (N5) medium-coarse subrounded to rounded SAND, few small subrounded gravel, trace subangular large gravel, trace fine sand					0.0	1248
73	38	75	22-24-22-22	2.0/1.5	46	0-1.5 SAA					0.0	1320
75	39	77	23-17-25-26	2.0/1.5	42	0-1.5 SAA, trace silt, slightly holding sand and gravel together (matrix supported)						
77	40	79	27-30-33-33	2.0/1.6	63	0-1.6 SAA					0.0	1331
79	41	81	18-28-40-46	2.0/1.5	68	0-1.5 SAA, no silt, no matrix supported					0.0	1414
81	42	83	29-39-36-28	2.0/1.5	75	0-1.5 SAA, trace silt					0.0	1425
83	43	85	28-50/0.4	0.9/0.5	>78	0-0.5 SAA, large chunk of gravel in split spoon nose					0.0	1520

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-111BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/10/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 1/16/2012
Boring Company: Parratt-Wolff **Foreman:** Rick Navatka, Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ Grout **Riser** Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
85	44	87	70-50/0.3	0.8/0.5	>120	0-0.5 SAA, matrix supported by brownish gray (5YR 4/1) SILT, large gravel in split spoon nose			0.0	1625
87	45	89	27-16-19-23	2.0/1.5	35	0-1.5 Dense, saturated, graying brown (5YR 3/2) fine-medium SAND, little silt			0.0	10/13/11 0926
89	46	91	10-21-28-32	2.0/1.6	49	0-1.6 SAA, very dense			0.0	945
91	47	93	9-11-17-18	2.0/1.6	28	0-1.6 SAA, medium dense			0.0	1125
93	48	95	4-9-22-38	2.0/1.5	31	0-1.5 Dense, saturated, brownish gray (5YR 4/1) fine-medium SAND, little silt, trace course sand and very trace small gravel	93'		0.0	1314
95	49	97	40-47-47-50	2.0/1.3	95	0-1.3 Very dense, saturated, pale brown (5YR 5/2) fine-medium SAND and SILT matrix supporting little coarse sand and trace small gravel	Till		0.0	1333
97	50	99	31-74-50/0.3	1.3/0.2	>124	0-0.2 Extremely dense, wet, grayish red (5R 4/2) SILT matrix supporting few coarse sand and small-large angular gravel			0.0	1510
99	51	101	35-66-55/0.2	1.2/1.2	>121	0-1.2 SAA			0.0	1600
101	52	103	55-50/0.2	0.7/0.7	>105	0-0.7 SAA			0.0	1645
103	53	105	100/0.3	0.3/0.3	>100	0-0.7 SAA. 0.2-0.3 Dark Gray (N3) SHALE, possibly bedrock				10/14/11 0855
						6" Steel Casing set 0-101' bgs, grouted into place				1/10/2012
104	54	106	50/0.3	0.3/0.3	>50	0-0.3 Extremely dense, wet, grayish red (5R 4/2) SILT matrix supporting few coarse SAND and small-large angular gravel			0.0	1/11/12 1208
106	55	108	50/0.3	0.3/0.3	>50	0-0.3 SAA			0.0	1300
108	56	110	50/0.3	0.3/0.3	>50	0-0.3 SAA			0.0	1429
110	57	112	50/0.3	0.3/0.3	>50	0-0.3 SAA			0.0	1530
112	58	114	50/0.3	0.3/0.3	>50	0-0.3 SAA			0.0	1605
116	59	118	50-50/0.1	0.6/0.6	>50	0-0.6 SAA			0.0	1/12/12 0755
118	60	120	50/0.3	0.3/0.3	>50	0-0.3 SAA, some weathered green shale fragments			0.0	852
120	61	122	50/0.5	0.5/0.5	>50	0-0.5 SAA, trace geen shale fragments			0.0	1035
122	62	124	50/0.3	0.3/0.3	>50	0-0.3 SAA			0.0	1125
124	63	126	50/0.1	0.1/0.1	>50	0-0.1 Grayish Green (5G 5/2) weather shale, fissile			0.0	1300
126	64	128	50/0.1	0.1/0.1	>50	0-0.1 SAA, ream out hole to 126' bgs, install 4" casing			0.0	1345
						4" Steel casing installed 0-128' bgs				1/13/2012
128		130	-	-	-	Shale				1/17/2012
130		132	-	-	-	Shale				
132		134	-	-	-	Shale		=		
134		136	-	-	-	Shale		=		
136		138	-	-	-	Shale		=		
138		140	-	-	-	Shale		=		
140		142	-	-	-	Shale		=		

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-111BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 10/10/2011
File No.: 1163/48127	Fall: 30"	End Date: 1/16/2012
Boring Company: Parratt-Wolff Foreman: Rick Navatka, Doug Richmond OBG Geologist: Jonathan Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
						Bedrock core 128-141' bgs, See core log for details				
						Well Construction Details (bgs)				
						Screen: 131-141 ft				
						Riser: +2.5-131 ft				
						#0 Sand: 129-142 ft				
						#00 Sand: 126-129 ft				
						Grout: 0-126 ft				

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13202

CORE LOG

Hole No.: SB915-MW-111BR | Job No.: 48127
Sheet 1 of 1 | Project: SB915 Closure

Formation / Member / Unit	Run No. / Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1		128.0 129.0 130.0 131.0 131.7	SHALE; greenish gray (5GY 6/1) fine grained, thinly laminated, highly fractured 128.0-129.3, mostly crumbled rock, transition to medium gray (N5) SHALE at 129.3, horizontal fractures at 129.4, 129.6, highly weathered and crumbled 129.8 - 130.5, horizontal fractures at 130.5, 130.9.	2.8	75%	0%
	2		132.7 133.7 134.7 135.7 136.7	SHALE; medium gray (N5), fine grain, thinly laminated, moderately weathered horizontal fractures at 131.8, 131.9, 132.0, 132.1, 132.4, 132.45, 132.5, 132.55, 132.5, 132.75, 132.9, 133.0, 133.2, 133.55, 133.9, 134.3, 135.2, 135.8, 136.5, 136.8	5	100%	5%

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-111D
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 10/10/2012
File No.: 1163/48127	Fall: 30"	End Date: 1/23/2012
Boring Company: Parratt-Wolff Foreman: Rick Navatka, Doug Richmond OBG Geologist: Jonathan Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	4-7-6-4	2.0/0.2	13	0.0'-0.2', brownish black (5YR 2/1) SILT, trace fine sand, some thin roots and vegetation	Organic rich Silt	\		\	0.0	1320
2	2	4	6-3-2-2	2.0/0.0	5	No recovery	4'	\		\	NA	1322
4	3	6	WH-1.5-3	2.0/0.4	<1	0.0'-0.4', dark yellowish brown (10YR 4/2) SILT and CLAY, coarse sand sized balls of silt throughout, moist, soft	Silt and Clay	\		\	0.0	1330
6	4	8	2-2-4-3	2.0/1.0	6	0.0'-0.5', SAA, 0.5'-1.0', grayish brown (5YR 3/2) SILT, trace clay	6.5' Silt	\		\	0.0	1335
8	5	10	WH-1.0-2-2	2.0/1.2	2	0.0'-1.2', SAA, very trace clay, little fine sand, trace small shells	10'	\		\	0.0	1343
10	6	12	WH-2.0	2.0/1.8	<1	0.0'-1.8', grayish brown (5YR 3/2) SILT, some fine sand, trace white shells, very trace thin vegetation, moist-wet	Silt with Fine Sand and Vegetation	\		\	0.0	1352
12	7	14	WH-1.0-3-3	2.0/2.0	3	0.0'-2.0', SAA, increase in fine sand and shell content, little thin layers of organic vegetation		\		\	0.0	1357
14	8	16	WH-1.5-1	2.0/1.6	<1	0.0'-1.4', SAA, 1.4'-1.6', brownish gray (5YR 6/1), SILT and CLAY, cohesive	16'	\		\	0.0	1405
16	9	18	1-2-1-2	2.0/2.0	3	0.0'-2.0', light brownish gray (5YR 6/1), SILT, little fine sand, trace clay	Silt with Fine Sand	\		\	0.0	1413
18	10	20	WH-1.0-1-2	2.0/2.0	1	0.0'-2.0', SAA		\		\	0.0	1418
20	11	21	4-1	2.0/1.0	1	0.0'-1.0', SAA		\		\	0.0	1626
21	12	23	WH-1.0-2-2	2.0/2.0	2	0.0'-2.0', light brownish gray (5YR 6/1), SILT, little fine sand, trace clay		\		\	0.0	1629
23	13	25	2-5-5-7	2.0/1.0	10	0.0'-0.8', SAA, 0.8'-1.0', brownish gray (5YR 4/1), fine to medium SAND, saturated, loose	23.8' Fine to Medium Sand	\		\	0.0	1644
25	14	27	2-2-6-8	2.0/2.0	8	0.0'-2.0', SAA		\		\	0.0	1650
27	15	29	5-7-10-15	2.0/1.2	17	0.0'-1.2', SAA		\		\	0.0	10/11/11 0848
29	16	31	2-7-7-9	2.0/1.2	14	0.0'-1.2', SAA, with fine SAND from 0.6'-1.2'		\		\	0.0	853
31	17	33	4-5-6-7	2.0/1.3	11	0.0'-0.4', SAA, 0.4'-1.3', brownish gray (5YR 4/1) fine to medium SAND, little well rounded coarse sand, well graded	31.4' Fine-Medium-Coarse Sand	\		\	0.0	913
33	18	35	3-4-9-7	2.0/1.3	13	0.0'-1.3', SAA		\		\	0.0	929
35	19	37	4-6-7-7	2.0/1.4	13	0.0'-.1.4', SAA, trace coarse sand		\		\	0.0	934
37	20	39	2-4-6-10	2.0/1.0	10	0.0'-1.0', SAA		\		\	0.0	1012
39	21	41	3-6-9-14	2.0/1.5	15	0.0'-1.5', SAA	41'	\		\	0.0	1017
41	22	43	4-7-9-11	2.0/1.3	16	0.0'-1.3', brownish gray (5YR 4/1) fine SAND, saturated, medium dense	Fine Sand	\		\	0.0	1045
43	23	45	3-5-6-9	2.0/1.3	11	0.0'-1.3', SAA, trace silt	45'	\		\	0.0	1104

No samples collected 0-87 ft bgs. Drilled using mud rotarty to 87 ft bgs and collected samples from 87-97 ft bgs. See SB915-MW-111BR boring log for sample descripions 0-87 ft.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-111D
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 10/10/2012
File No.: 1163/48127	Fall: 30"	End Date: 1/23/2012
Boring Company: Parratt-Wolff		Screen = \ Grout
Foreman: Rick Navatka, Doug Richmond		Riser Sand Pack
OBG Geologist: Jonathan Bone		Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
45	24	47	4-5-8-7	2.0/1.5	13	0.0'-1.5', brownish gray (5YR 4/1), greenish gray (5GY 6/1), and dark reddish brown (10R 3/4) grains of fine-medium-coarse SAND, sub-rounded to rounded trace small gravel	Fine-Medium-Coarse Sand	\ \	0.0	1105
							47'			
47	25	49	4-7-15-31	2.0/1.3	22	0.0'-1.3', SAA, increase in small to medium sub-rounded gravel	Sand and Gravel	\ \	0.0	1250
49	26	51	37-51-37-52	2.0/2.0	88	0.0'-2.0', SAA, some small-medium-large sub-rounded to angular gravel, well graded, very dense		\ \	0.0	1300
51	27	53	24-32-51	1.5/1.2	32	0.0'-1.2', SAA, decrease in fine SAND, very dense		\ \	0.0	1352
53	28	55	33-43-33-49	2.0/1.5	76	0-1.5 SAA		\ \	NA	1450
55	29	57	43-60/0.4	0.9/0.9	>103	0-0.9 SAA, increase in medium-large angular gravel		\ \	NA	1508
57	30	59	43-50-38-50	2.0/0.9	88	0-1.5 SAA, some rounded and subrounded gravel		\ \	0.0	1618
59	31	61	25-38-44-36	2.0/0.5	82	0-0.5 SAA		\ \	0.0	1630
61	32	63	14-20-25-27	2.0/1.5	45	0-1.5 Dense, saturated, medium gray (N5) medium-course SAND (rounded), some fine sand, few small rounded gravel, well graded		\ \	0.0	10/12/11 0915
63	33	65	20-23-24-27	2.0/1.5	47	0-1.5 SAA		\ \	0.0	955
65	34	67	20-27-36-32	2.0/1.6	63	0-1.6 SAA, trace large subrounded gravel		\ \	0.0	1007
67	35	69	25-35-47-32	2.0/1.5	82	0-1.5 SAA, medium-course SAND, varies in color, medium gray (N5) greenish gray (5GY 6/1) and dark reddish brown (10R 3/4) slightly matrix supported by fine-medium-course sand and trace silt (1.0-1.5)		\ \	0.0	1100
69	36	71	27-26-35-45	2.0/1.5	61	0-1.5 SAA, not matrix supported		\ \	0.0	1115
71	37	73	32-27-29-24	2.0/1.5	56	0-1.5 Very dense, saturated, medium gray (N5) medium-coarse subrounded to rounded SAND, few small subrounded gravel, trace subangular large gravel, trace fine sand		\ \	0.0	1248
73	38	75	22-24-22-22	2.0/1.5	46	0-1.5 SAA		\ \	0.0	1320
75	39	77	23-17-25-26	2.0/1.5	42	0-1.5 SAA, trace silt, slightly holding sand and gravel together (matrix supported)		\ \		
77	40	79	27-30-33-33	2.0/1.6	63	0-1.6 SAA		\ \	0.0	1331
79	41	81	18-28-40-46	2.0/1.5	68	0-1.5 SAA, no silt, no matrix supported		\ \	0.0	1414
81	42	83	29-39-36-28	2.0/1.5	75	0-1.5 SAA, trace silt		\ \	0.0	1425
83	43	85	28-50/0.4	0.9/0.5	>78	0-0.5 SAA, large chunk of gravel in split spoon nose		\ \	0.0	1520

No samples collected 0-87 ft bgs. Drilled using mud rotarty to 87 ft bgs and collected samples from 87-97 ft bgs. See SB915-MW-111BR boring log for sample descripions 0-87 ft.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-111D
Client: Honeywell	Sampler: 2" Split Spoon	Location: SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 10/10/2012
File No.: 1163/48127	Fall: 30"	End Date: 1/23/2012
Boring Company: Parratt-Wolff Foreman: Rick Navatka, Doug Richmond OBG Geologist: Jonathan Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
85	44	87	70-50/0.3	0.8/0.5	>120	0-0.5 SAA, matrix supported by brownish gray (5YR 4/1) SILT, large gravel in split spoon nose			0.0	1625
87	45	89	23-25-33-48	2.0/2.0	58	0-2.0 Very dense, saturated, brownish gray (5YR 4/1) fine to medium SAND, little coarse sand, trace silt		=	0.0	1/20/12 1400
89	46	91	14-18-29-21	2.0/2.0	42	0-2.0 SAA		=	0.0	1415
91	47	93	21-24-28-33	2.0/1.5	52	0-1.5 SAA, no coarse sand		=	0.0	1/23/12 0830
93	48	95	17-31-46-50	2.0/2.0	77	0-1.8 SAA, trace coarse sand. 1.8-2.0 SAA slightly matrix supported by dusky red (5R 3/4) and greenish gray (5GY 6/1) medium to coarse sand sized chunks of silt		=	0.0	920
95	49	97	5-20-44-38	2.0/1.3	66	0-1.0 Dense, saturated, brownish gray (5YR 4/1) fine to medium SAND, few small to medium gravel and coarse sand. 1.0-1.3 Very dense, wet, grayish red (5R 4/2) SILT matrix supporting medium to coarse sand and small to medium gravel		=	0.0	1055
						End of Boring @ 97 ft				
						Well Construction Details (bgs) Screen: 87-97 ft Riser: +2.5-87 ft #0 Sand: 85-97 ft #00 Sand: 82-85 ft Grout: 0-82 ft				

No samples collected 0-87 ft bgs. Drilled using mud rotarty to 87 ft bgs and collected samples from 87-97 ft bgs. See SB915-MW-111BR boring log for sample descripions 0-87 ft.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-111I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/24/2012**
File No.: 1163/48127	**Fall: 30"**	**End Date: 1/25/2012**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Rick Navatka		**Riser Sand Pack**
OBG Geologist: Rob Hornung		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	4-7-6-4	2.0/0.2	13	0.0'-0.2', brownish black (5YR 2/1) SILT, trace fine sand, some thin roots and vegetation	Organic rich Silt	\ \	0.0	NA
2	2	4	6-3-2-2	2.0/0.0	5	No recovery	4'	\ \	NA	NA
4	3	6	WH-1.5-3	2.0/0.4	<1	0.0'-0.4', dark yellowish brown (10YR 4/2) SILT and CLAY, coarse sand sized balls of silt throughout, moist, soft	Silt and Clay	\ \	0.0	NA
6	4	8	2-2-4-3	2.0/1.0	6	0.0'-0.5', SAA, 0.5'-1.0', grayish brown (5YR 3/2) SILT, trace clay	6.5' Silt	\ \	0.0	NA
8	5	10	WH-1.0-2-2	2.0/1.2	2	0.0'-1.2', SAA, very trace clay, little fine sand, trace small shells	10'	\ \	0.0	NA
10	6	12	WH-2.0	2.0/1.8	<1	0.0'-1.8', grayish brown (5YR 3/2) SILT, some fine sand, trace white shells, very trace thin vegetation, moist-wet	Silt with Fine Sand and Vegetation	\ \	0.0	NA
12	7	14	WH-1.0-3-3	2.0/2.0	3	0.0'-2.0', SAA, increase in fine sand and shell content, little thin layers of organic vegetation		\ \	0.0	NA
14	8	16	WH-1.5-1	2.0/1.6	<1	0.0'-1.4', SAA, 1.4'-1.6', brownish gray (5YR 6/1), SILT and CLAY, cohesive	16'	\ \	0.0	NA
16	9	18	1-2-1-2	2.0/2.0	3	0.0'-2.0', light brownish gray (5YR 6/1), SILT, little fine sand, trace clay	Silt with Fine Sand	\ \	0.0	NA
18	10	20	WH-1.0-1-2	2.0/2.0	1	0.0'-2.0', SAA		\ \	0.0	NA
20	11	21	4-1	2.0/1.0	1	0.0'-1.0', SAA		\ \	0.0	NA
21	12	23	WH-1.0-2-2	2.0/2.0	2	0.0'-2.0', light brownish gray (5YR 6/1), SILT, little fine sand, trace clay	23.8'	\ \	0.0	NA
23	13	25	2-5-5-7	2.0/1.0	10	0.0'-0.8', SAA, 0.8'-1.0', brownish gray (5YR 4/1), fine to medium SAND, saturated, loose	Fine to Medium Sand	\ \	0.0	NA
25	14	27	2-2-6-8	2.0/2.0	8	0.0'-2.0', SAA		\ \	0.0	NA
27	15	29	5-7-10-15	2.0/1.2	17	0.0'-1.2', SAA		\ \	0.0	NA
29	16	31	2-7-7-9	2.0/1.2	14	0.0'-1.2', SAA, with fine SAND from 0.6'-1.2'		\ \	0.0	NA
31	17	33	4-5-6-7	2.0/1.3	11	0.0'-0.4', SAA, 0.4'-1.3', brownish gray (5YR 4/1) fine to medium SAND, little well rounded coarse sand, well graded	31.4' Fine-Medium-Coarse Sand	\ \	0.0	NA
33	18	35	3-4-9-7	2.0/1.3	13	0.0'-1.3', SAA		\ \	0.0	NA
35	19	37	4-6-7-7	2.0/1.4	13	0.0'-.1.4', SAA, trace coarse sand		\ \	0.0	NA
37	20	39	2-4-6-10	2.0/1.0	10	0.0'-1.0', SAA		\ \	0.0	NA
39	21	41	3-6-9-14	2.0/1.5	15	0.0'-1.5', SAA	41'	\ \	0.0	NA
41	22	43	4-7-9-11	2.0/1.3	16	0.0'-1.3', brownish gray (5YR 4/1) fine SAND, saturated, medium dense	Fine Sand	\ \	0.0	NA
43	23	45	3-5-6-9	2.0/1.3	11	0.0'-1.3', SAA, trace silt	45'	\ \	0.0	NA
45	24	47	4-5-8-7	2.0/1.5	13	0.0'-1.5', brownish gray (5YR 4/1), greenish gray (5GY 6/1), and dark reddish brown (10R 3/4) grains of fine-medium-coarse SAND, sub-rounded to rounded trace small gravel	Fine-Medium-Coarse Sand 47'	\ \	0.0	NA

Advanced 6' 1/4" hollow stem augers to 10.0' bgs. Switch over to roller bit with mud rotary from 10.0' bgs to 52.0' bgs. Sample descriptions above taken from SB915-MW-111BR soil boring log. Installed temporary 4" casing from +3.0' to 64.0' bgs to prevent borehole from collapse.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-111I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 1/24/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 1/25/2012
Boring Company: Parratt-Wolff **Foreman:** Rick Navatka **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
47	25	49	4-7-15-31	2.0/1.3	22	0.0'-1.3', SAA, increase in small to medium sub-rounded gravel	Sand and Gravel	\ \	0.0	NA
49	26	51	37-51-37-52	2.0/2.0	88	0.0'-2.0', SAA, some small-medium-large sub-rounded to angular gravel, well graded, very dense			0.0	NA
51	27	53	24-32-51	1.5/1.2	32	0.0'-1.2', SAA, decrease in fine SAND, very dense			0.0	NA
52	1	52.2	50/0.2	0.2/0.0	>50*	No recovery			NA	1/24/2012 1620
52.2	2	54	NA	NA	NA	Augered down from 52.2' bgs to 54.0' bgs utilizing roller bit with mud rotary to remove material from borehole causing spoon refusal			NA	1/25/2012 810
54	3	56	56-41-43-58	2.0/2.0	84	0.0'-2.0', brownish gray (5YR 4/1) and greenish gray (5G 6/1) fine to medium SAND and sub-rounded to rounded GRAVEL, saturated, medium dense		=	0.0	852
56	4	58	26-27-41	1.5/1.5	27	0.0'-1.5', SAA, increase in medium to coarse sand, decrease in sub-rounded to rounded gravel		=	0.0	909
58	5	60	27-43-69-90	2.0/1.5	112*	0.0'-1.5', brownish gray (5YR 4/1) and olive gray (5Y 4/1) medium to coarse SAND, matrix supported, little sub-rounded to rounded gravel, 1.0'-1.5' sub-angular to sub-rounded gravel		=	0.0	1020
60	6	62	50/0.4	0.4/0.4	>50	0.0'-0.4', brownish gray (5YR 4/1) and olive gray (5Y 4/1) medium to coarse SAND, matrix supported, little sub-angular to sub-rounded cobbles and pebbles		=	0.0	1032
62	7	64	6-20-27-29	2.0/2.0	47	0.0'-1.5', brownish gray (5YR 4/1) and olive gray (5Y 4/1) medium to coarse SAND, matrix supported, sub-rounded to sub-angular cobbles and pebbles, sub-rounded gravel from 1.0'-1.5', dark reddish brown (10R 3/4) fine-medium-coarse SAND from 1.5'-2.0'		=	0.0	1113
						End of Boring @ 64' bgs				
						Well Construction (bgs)				
						Screen: 54-64 ft (10 slot)				
						Riser: +2.5-54 ft				
						#0 Sand: 52-64 ft				
						#00 Sand: 49-52 ft				
						Grout: 0-49 ft				

Advanced 6' 1/4" hollow stem augers to 10.0' bgs. Switch over to roller bit with mud rotary from 10.0' bgs to 52.0' bgs. Sample descriptions above taken from SB915-MW-111BR soil boring log. Installed temporary 4" casing from +3.0' to 64.0' bgs to prevent borehole from collapse.
* indicates 3" spoon was used, N value is not applicable.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-111S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/26/2012**
File No.: 1163/48127	**Fall: 30"**	**End Date: 1/26/2012**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Rick Navatka		**Riser Sand Pack**
OBG Geologist: Rob Hornung		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	4-7-6-4	2.0/0.2	13	0.0'-0.2', brownish black (5YR 2/1) SILT, trace fine sand, some thin roots and vegetation	Organic rich Silt	\		\	0.0	NA
2	2	4	6-3-2-2	2.0/0.0	5	No recovery	4'	\		\	NA	NA
4	3	6	WH-1.5-3	2.0/0.4	<1	0.0'-0.4', dark yellowish brown (10YR 4/2) SILT and CLAY, coarse sand sized balls of silt throughout, moist, soft	Silt and Clay	\		\	0.0	NA
6	4	8	2-2-4-3	2.0/1.0	6	0.0'-0.5', SAA, 0.5'-1.0', grayish brown (5YR 3/2) SILT, trace clay	6.5' Silt	\		\	0.0	NA
8	5	10	WH-1.0-2-2	2.0/1.2	2	0.0'-1.2', SAA, very trace clay, little fine sand, trace small shells	10'				0.0	NA
10	6	12	WH-2.0	2.0/1.8	<1	0.0'-1.8', grayish brown (5YR 3/2) SILT, some fine sand, trace white shells, very trace thin vegetation, moist-wet	Silt with Fine Sand and Vegetation				0.0	NA
12	7	14	WH-1.0-3-3	2.0/2.0	3	0.0'-2.0', SAA, increase in fine sand and shell content, little thin layers of organic vegetation	13'				0.0	NA
13	1	15	WH-2.0	2.0/1.4	<1	0.0'-1.4', dusky brown (5YR 2/2) SILT and CLAY, trace fine sand, roots and vegetation in upper portion, wet, soft	Silt and Clay 15'		=		0.0	1/26/12 935
15	2	17	WH-2.0	2.0/1.4	<1	0.0'-1.4', pale brown (5YR 5/2) and pale yellowish brown (10YR 6/2) fine SAND and SILT, trace clay, saturated	Fine Sand and Silt		=		0.0	945
17	3	19	WH-0.5-2-2-1	2.0/2.0	4	0.0'-2.0', SAA, saturated, loose	19'		=		0.0	954
19	4	21	WH-1.0-1-2	2.0/2.0	1	0.0'-0.5', pale yellowish brown (10YR 6/2) and 0.5'-2.0' pale brown (5yr 5/2), SILT and CLAY, some fine sand from 1.5'-2.0', saturated, loose	Silt and Clay		=		0.0	1006
21	5	23	3-4-6-9	2.0/2.0	10	0.0'-1.3', pale yellowish brown (10YR 6/2) SILT and CLAY, some fine sand, 1.3'-2.0' light brown (5YR 5/6) and light brownish gray (5YR 6/1) fine to medium SAND, saturated, loose	22.3' Sand		=		0.0	1017
						End of Boring @ 23' bgs						

Well Construction (bgs)
Screen: 13-23 ft (10 slot)
Riser: +2.5-13 ft
#0 Sand: 11-23 ft
#00 Sand: 8-11 ft
Grout: 0-8 ft

Advanced 6' 1/4" hollow stem augers to 13.0' bgs with no sampling. Sample descriptions above taken from SB915-MW-111BR soil boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-112I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 1/27/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 1/31/2012
Boring Company: Parratt-Wolff **Foreman:** Rick Navatka **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** \ **Sand Pack** \ **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	4-8-11-9	2.0/1.4	19	0.0'-0.6', medium gray angular GRAVEL with vegetation, 0.6'-1.4', greenish black (5G 2/1) organic rich SILT and fine SAND, moist, dense	Fill	\ \	0.0	NA
2	2	4	4-11-8-8	2.0/1.2	19	0.0-1.2', greenish black (5G 2/1) organic rich SILT and fine to medium SAND, little angular to sub-angular gravel, wet, medium dense		\ \	0.0	NA
4	3	6	10-11-19-20	2.0/1.9	30	0.0'-0.5', olive gray (5Y 4/1) sub-angular to angular GRAVEL, trace fine sand, 0.5'-1.9', olive black (5Y 2/1), fine-medium-coarse SAND, little sub-angular gravel, trace silt, matrix supported, saturated, dense	6'	\ \	0.0	NA
6	4	8	55-30-36-29	2.0/2.0	66	0.0'-2.0', greenish black (5G 2/1) medium to coarse SAND and SILT, some sub-angular to sub-rounded gravel, saturated, dense from 0.0'-1.0', loose from 1.0'-2.0'	Sand and Silt with Gravel	\ \	0.0	NA
8	5	10	3-4-3-8	2.0/2.0	7	0-0'-0.7', greenish black (5GY 2/1) and olive gray (5Y 4/1) medium to coarse SAND and SILT, some sub-angular gravel, 0.7'-2.0', SILT and CLAY	8.7' Silt and Clay	\ \	0.0	NA
10	6	12	2-4-5-6	2.0/1.5	9	0.0'-1.5', olive gray (5Y 4/1) SILT and CLAY, trace fine sand, 1.2'-1.5' fine SAND, some silt, saturated	11.2' Fine Sand and Silt with Silt and Clay	\ \	0.0	NA
12	7	14	3-4-5-5	2.0/2.0	9	0.0'-1.3', olive gray (5Y 4/1) SILT and CLAY, trace fine to medium sand, 1.3'-2.0', fine SAND and SILT, saturated		\ \	0.0	NA
14	8	16	1-2-2-1	2.0/2.0	4	0.0'-0.5', olive gray (5Y 4/1) SILT and CLAY, trace fine to medium sand, 0.5'-2.0', dark yellowish orange (10YR 6/6) fine SAND and SILT, saturated	14.5' Fine Sand and Silt	\ \	0.0	NA
16	9	18	2-3-2-2	2.0/2.0	5	0.0'-2.0', olive gray (5Y 4/1) fine SAND and SILT, saturated		\ \	0.0	NA
18	10	20	WH-1.0-2-2	2.0/1.2	2	0.0'-1.2', SAA		\ \	0.0	NA
20	1	22	2-2-2-2	2.0/1.8	4	0.0'-1.8', dark yellowish brown (10YR 6/6) fine SAND and SILT, saturated, loose		\ \	0.0	1/30/2012 1116
22	2	24	2-2-2-2	2.0/2.0	4	0.0'-2.0', SAA		\ \	0.0	1138
24	3	26	5-6-8-11	2.0/1.4	14	0.0'-1.4', pale brown (5YR 5/2) fine SAND and SILT, saturated, medium dense to dense		\ \	0.0	1159
26	4	28	6-6-10-9	2.0/1.8	16	0.0'-1.8', SAA, medium dense		\ \	0.0	1207
28	5	30	4-5-5-7	2.0/1.4	10	0.0'-1.4', SAA, some silt		\ \	0.0	1312
30	6	32	4-9-11-14	2.0/1.4	20	0.0'-1.4', SAA, dense, little silt		\ \	0.0	1328
32	7	34	8-8-10-10	2.0/1.4	18	0.0'-1.4', SAA		\ \	0.0	1337
34	8	36	4-6-8-9	2.0/1.0	14	0.0'-1.0', SAA, medium dense, trace silt		\ \	0.0	1350
36	9	38	4-8-9-10	2.0/1.0	17	0.0'-1.0', SAA, dense		\ \	0.0	1357
38	10	40	6-8-11-11	2.0/1.6	19	0.0'-1.6', SAA, some silt	40'	\ \	0.0	1415

Advanced 10' 1/4" hollow stem augers to 10.0' bgs. Switched over to mud rotary with roller bit from 10.0' bgs to 20.0' bgs. Sample descriptions above are taken from SB915-MW-112S soil boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-112I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/27/2012**
File No.: 1163/48127	**Fall: 30"**	**End Date: 1/31/2012**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Rick Navatka		**Riser Sand Pack**
OBG Geologist: Rob Hornung		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
40	11	42	3-4-6-8	2.0/1.5	10	0.0'-1.5', pale brown (5YR 5/2) SILT, trace fine sand, saturated, medium dense	Silt 42'	\ \	0.0	1434
42	12	44	9-9-12-12	2.0/1.5	21	0.0'-1.5', pale brown (5YR 5/2) fine SAND, little silt, saturated, dense	Silt and Sand	\ \	0.0	1440
44	13	46	4-5-10-10	2.0/1.5	15	0.0'-1.5', SAA, some silt	46'		0.0	1502
46	14	48	5-14-30-39	2.0/1.5	44	0.0'-1.5', pale brown (5YR 5/2) and dark greenish gray (5GY 4/1) medium to coarse SAND, little sub-angular gravel, trace silt, saturated, loose	Sand and Gravel		0.0	1522
48	15	50	8-22-25-28	2.0/1.6	47	0.0'-1.6', SAA, some silt			0.0	1547
50	16	52	15-25-35-44	2.0/1.3	60	0.0'-0.8', dark gray and greenish gray (5GY 6/1) sub-angular to angular GRAVEL, some silt, trace fine sand, 0.8'-1.3', pale reddish brown (10R 5/4) CLAY	50.8' Till 52'	=	0.0	1623
52	17	54	41-30-24-18	2.0/1.8	54	0.0'-0.4', medium dark gray to dark gray sub-angular to angular GRAVEL, trace silt, 0.4'-1.8', pale reddish brown (10R 5/4) and light brownish gray (5YR 6/1) fine-medium-coarse SAND	Sand and Gravel	=	0.0	1634
54	18	56	10-13-13-13	2.0/1.5	26	0.0'-0.6', pale brown (5YR 5/2) and dark gray sub-angular to angular GRAVEL, some silt, 0.6'-1.5' pale reddish brown (10R 5/4) fine-medium-coarse SAND		=	0.0	1/31/2012 0950
56	19	58	21-49-50/0.4	1.4/1.4	>99	0.0'-0.8', light olive gray (5Y 6/1) and pale reddish brown (10R 5/4) fine-medium-coarse SAND, little sub-rounded gravel, trace silt, 0.8'-1.4' pale reddish brown (10R 5/4) CLAY, dry, very dense	56.8' Till	=	0.0	1001
58	20	60	21-26-50-50	2.0/1.0	76	0.0'-1.0', pale brown (5YR 5/2) and pale reddish brown (10R 5/4) CLAY, dry, very dense		=	0.0	1056
						End of Boring @ 60' bgs				

Well Construction (bgs)
Screen: 50-60 ft (10 slot)
Riser:
#0 Sand: 48-60 ft
#00 Sand: 45-48 ft
Grout: 0-45 ft

Advanced 10' 1/4" hollow stem augers to 10.0' bgs. Switched over to mud rotary with roller bit from 10.0' bgs to 20.0' bgs. Sample descriptions above are taken from SB915-MW-112S soil boring log.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-112S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/27/2012**
File No.: 1163/48127	**Fall: 30"**	**End Date: 1/27/2012**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Rick Navatka		**Riser Sand Pack**
OBG Geologist: Rob Hornung		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	4-8-11-9	2.0/1.4	19	0.0'-0.6', medium gray angular GRAVEL with vegetation, 0.6'-1.4', greenish black (5G 2/1) organic rich SILT and fine SAND, moist, dense	Fill	\ \	0.0	840
2	2	4	4-11-8-8	2.0/1.2	19	0.0-1.2', greenish black (5G 2/1) organic rich SILT and fine to medium SAND, little angular to sub-angular gravel, wet, medium dense		\ \	0.0	851
4	3	6	10-11-19-20	2.0/1.9	30	0.0'-0.5', olive gray (5Y 4/1) sub-angular to angular GRAVEL, trace fine sand, 0.5'-1.9', olive black (5Y 2/1), fine-medium-coarse SAND, little sub-angular gravel, trace silt, matrix supported, saturated, dense	6.0'	\ \	0.0	857
6	4	8	55-30-36-29	2.0/2.0	66	0.0'-2.0', greenish black (5G 2/1) medium to coarse SAND and SILT, some sub-angular to sub-rounded gravel, saturated, dense from 0.0'-1.0', loose from 1.0'-2.0'	Sand and Silt with Gravel		0.0	906
8	5	10	3-4-3-8	2.0/2.0	7	0-0'-0.7', greenish black (5GY 2/1) and olive gray (5Y 4/1) medium to coarse SAND and SILT, some sub-angular gravel, 0.7'-2.0', SILT and CLAY	8.7'		0.0	939
10	6	12	2-4-5-6	2.0/1.5	9	0.0'-1.5', olive gray (5Y 4/1) SILT and CLAY, trace fine sand, 1.2'-1.5' fine SAND, some silt, saturated	Silt and Clay 11.2'	=	0.0	946
12	7	14	3-4-5-5	2.0/2.0	9	0.0'-1.3', olive gray (5Y 4/1) SILT and CLAY, trace fine to medium sand, 1.3'-2.0', fine SAND and SILT, saturated	Fine Sand and Silt with Silt and Clay 14.5'	=	0.0	1007
14	8	16	1-2-2-1	2.0/2.0	4	0.0'-0.5', olive gray (5Y 4/1) SILT and CLAY, trace fine to medium sand, 0.5'-2.0', dark yellowish orange (10YR 6/6) fine SAND and SILT, saturated	Fine Sand and Silt	=	0.0	1016
16	9	18	2-3-2-2	2.0/2.0	5	0.0'-2.0', olive gray (5Y 4/1) fine SAND and SILT, saturated		=	0.0	1027
18	10	20	WH-1.0-2-2	2.0/1.2	2	0.0'-1.2', SAA		=	0.0	1031
						End of Boring @ 20' bgs				

Well Construction (bgs)
Screen: 10-20 ft (10 slot)
Riser: +2.0-10 ft
#0 Sand: 8-20 ft
#00 Sand: 5-8 ft
Grout: 0-5 ft

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-113S
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/10/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/10/2012
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Joe Percy, Doug Richmond		**Riser** **Sand Pack**
OBG Geologist: Robert Hornung		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	NA	2.0/1.7	NA	0.0'-0.8', brownish black (5YR 2/1), 0.8'-1.7' black, SILT, some fine sand, trace angular to sub-angular gravel, dry, medium dense	Fill	\ \	0.0	935
2	2	4	NA	2.0/1.6	NA	0.0'-1.6', black SILT, some fine sand, trace angular to sub-angular gravel, wet, medium dense		\ \	0.0	940
4	3	6	NA	2.0/1.0	NA	0.0'-1.0', brownish black (5YR 2/1) SILT, some fine sand, trace angular gravel, saturated, medium dense		\ \	0.0	948
6	4	8	NA	2.0/1.0	NA	0.0'-1.0', SAA, little angular to sub-rounded gravel, wet, loose		\ \	0.0	954
8	5	10	NA	2.0/0.9	NA	0.0'-0.3', SAA, little sub-angular to sub-rounded gravel, 0.3'-0.9' pale brown (5YR 5/2) SILT, some clay, moist, medium dense	8.3' Silt with Clay	\ \	0.0	1000
10	6	12	NA	2.0/1.3	NA	0.0'-1.3', moderate yellowish brown (10YR 5/4) SILT, some clay, moist, soft to medium dense		\ \	0.0	1011
12	7	14	NA	0.5/0.5	NA	0.0'-0.5', moderate yellowish brown (10YR 5/4) SILT, trace clay, moist, loose		\ \	0.0	1014
14	8	16	NA	2.0/0.2	NA	0.0'-0.2', SAA, dry, medium dense	16'		0.0	1028
16	9	18	NA	2.0/1.8	NA	0.0'-1.8', olive gray (5Y 4/1) and brownish gray (5YR 4/1) CLAY and PEAT, organic rich, gastropod skeletal remains, moist, soft	Clay, Peat, and Marl		0.0	1031
18	10	20	NA	2.0/1.2	NA	0.0'-0.9', olive gray (5Y 4/1) and greenish gray (5GY 6/1) interbedded PEAT and MARL, some clay, gastropod skeletal fragments, 0.9'-1.2' light brown (5YR 5/6) WOODY DEBRIS, wet, soft		=	0.0	1038
20	11	22	NA	2.0/1.1	NA	0.0'-1.1', olive gray (5Y 4/1) CLAY, some peat, trace woody debris, saturated, soft		=	0.0	1048
22	12	24	NA	2.0/1.0	NA	0.0'-1.0', light olive gray (5Y 6/1) fine-medium-coarse SAND, trace sub-angular to sub-rounded gravel, trace silt, saturated, loose	23.0' Sand	=	0.0	1053
24	13	26	NA	2.0/0.0	NA	No recovery		=	NA	1101
26	14	28	NA	2.0/0.5	NA	0.0'-0.5', light brownish gray (5YR 6/1) SILT, trace clay, wet, medium dense	26.0' Silt	=	0.0	1107
						End of Boring @ 28' bgs				

Well Construction (bgs)
Screen: 18-28 ft (10 slot)
Riser: +2.0-18 ft
#0 Sand: 16-28 ft
#00 Sand: 13-16 ft
Grout: 0-13 ft

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-114BR
Client: Honeywell **Proj. Loc:** Settling Basins 9-15 Camillus, NY **File No.:** 1163/48127	**Sampler:** 2" Split Spoon **Hammer:** 140-lb drop **Fall:** 30"	**Location:** SB915 **Start Date:** 11/1/2011 **End Date:** 11/3/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	2-4-5-2	2.0/1.0	9	0-0.8 Very soft, moist, wet, brownish gray (5YR 4/1) SILT and find SAND, some thick roots, few coarse sand and small to medium gravel. 0.8-1.0 Medium, dry, grayish red (10R 4/2) SILT matrix supporting small, medium, large gravel		\ \	0.0	11/1/11 1345
2	2	4	10-4-6-6	2.0/0.2	10	0-0.2 SAA (0.8-1.0) few medium to coarse sand supported in matrix, saturated.		\ \	0.0	1348
4	3	6	WH-3-4-3	2.0/1.0	7	0-1.0 Soft, saturated, dark yellowish brown (10YR 4/2) SILT, some fine sand, trace clay and roots, trace large rounded gravel		\ \	NA	1358
6	4	8	4-2-4-4	2.0/2.0	6	0-1.0 SAA. 1.0-2.0 Soft, wet, moderate yellowish brown (10YR 5/4) SILT and fine SAND matrix supporting medium to coarse sand, some small gravel		\ \	0.0	1401
8	5	10	5-5-4-7	2.0/1.2	9	0-1.2 SAA, transitioning to grayish red (10YR 4/2) in color, and matrix becoming less fine sand with depth		\ \	0.0	1520
10	6	12	7-8-8-20	2.0/1.0	16	0-1.0 SAA, all grayish red (10R 4/2) some small, medium, large gravel, matrix silt and fine to medium sand in end of spoon		\ \	0.0	1525
12	7	14	15-13-14-10	2.0/1.0	27	0-0.5 SAA, with few greenish gray, coarse sand sized chunks of weathered shale, trace large gravel, moist. 0.5-1.2 Medium dense, wet, grayish red (10R 4/2) and dark yellowish brown (10YR 4/2) fine to medium sand, some silt, few fine to medium to coarse sand and small angular gravel. 1.2-1.5 Medium dense, wet, grayish red, silt and fine sand		\ \	0.0	1549
14	8	16	21-17-19-26	2.0/0.5	38	0-0.5 Hard, moist, grayish red (10R 4/2) SILT matrix supporting few coarse sand and small to medium to large angular gravel		\ \	0.0	1612
16	9	18	27-22-24-23	2.0/0.8	46	0-0.8 SAA, very hard		\ \	0.0	1620
18	10	20	50/0.2	0.2/0.2	>50	0-0.2 Dark Greenish gray (5GY 4/1) SHALE, highly fractured, weathered		\ \	0.0	11/2/11 0927
20		24	-	-	-	Drilled to 24' bgs and set 4" steel casing 0-24', Grouted to grade				
24		26	-	-	-	Used roller bit to drill from 24-26' Rock cored using HQ sized barrel See Core Log for details				11/3/2011
26		28	-	-	-	Shale		=		
28		30	-	-	-	Shale		=		
30		32	-	-	-	Shale		=		
32		34	-	-	-	Shale		=		
34		36	-	-	-	Shale		=		
36		38	-	-	-	Shale				
						Well Construction (bgs)				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-114BR
Client: Honeywell Proj. Loc: Settling Basins 9-15 Camillus, NY File No.: 1163/48127	Sampler: 2" Split Spoon Hammer: 140-lb drop Fall: 30"	Location: SB915 Start Date: 11/1/2011 End Date: 11/3/2011
Boring Company: Parratt-Wolff Foreman: Doug Richmond OBG Geologist: Jonathan Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
						Screen: 27-37 ft (10 slot)				
						Riser: +2.5-37 ft				
						#0 Sand: 25-37 ft				
						#00 Sand: 22-25 ft				
						Grout: 0-22 ft				

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13202

CORE LOG

11/3/2011

Hole No.: SB915-MW-114BR | Job No.: 48127

Sheet 1 of 1 | Project: SB915 Closure

Formation / Member / Unit	Run No. / Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1	20 15 16 6.5	26.0 27.0 28.0 29.0 29.5	SHALE, greenish gray (5GY 6/1) fine grain, thinly laminated, moderately fractured, gypsum remineralization in some of the fractures. Horizontal fractures at 26.15, 26.25, 26.45, 26.70, (gypsum) Vertical fracture from 27.0-27.5, Horizontal fractures at 27.5, 27.9, 30.4, 30.6 (gypsum), 30.7, 30.8 (gypsum). Lost approximately 200 gallons of water.	3.5	100%	56%
	2	5 6.5 6.5 7 6.5	30.0 31.0 32.0 33.0 34.0	SHALE, greenish gray (5GY 6/1) fine grain, thinly laminated, few fractures, gypsum healing in multiple fractures. Horizontal fractures at 30.1, 31.2, 31.65, 32.65, 32.6, 32.8. Vertical fractures from 33.1-33.4. Horizontal fractures at 34.1. Lost approximately 100 gallons of water.	5	100%	82%
	3	3.5 3 12.5 10.5	35.0 36.0 37.0 38.0 39.2	SHALE, greenish gray (5GY 6/1) fine grain, thinly laminated, few fractures, gypsum healing in multiple fractures. Horizontal fractures at 34.6, 35.1, 35.8, 36.2, 36.45, 36.8. Lost approximately 130 gallons of water.	2.7	100%	85%

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-115BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/26/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 11/4/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	4	-	-	-	Hand Cleared to 4' bgs	4' Silt			10/26/2011
4	1	6	7-10-10-5	2.0/1.0	20	0-1.0 Very stiff, moist, moderate brown (5YR 4/4) Grayish brown (5YR 3/2) and medium bluish gray (SB 5/1) SILT, little clay			0.0	1238
6	2	8	7-8-8-9	2.0/1.0	16	0-1.0 SAA			0.0	1240
8	3	10	WH-WH-3-2	2.0/1.0	3	0-0.5 SAA. 0.5-1.0 Soft, moist, brownish black (5YR 2/1) SILT, trace fine sand and vegetation			0.0	1245
10	4	12	WH-3-3-2	2.0/1.2	6	0-1.2 Medium stiff, wet, dark, yellowish brown (10YR 4/2) SILT, little clay			0.0	1253
12	5	14	6-6-8-8	2.0/1.5	14	0-1.5 SAA (4-6') Saturated			0.0	1258
14	6	16	1-1-2-2	2.0/2.0	3	0-2.0 Soft, saturated, dark yellowish brown (10YR 4/2) SILT and CLAY, very cohesive			0.0	1311
16	7	18	4-5-7-6	2.0/2.0	12	0-2.0 SAA			0.0	1315
18	8	20	WH-1-2-1	2.0/2.0	3	0-2.0 Very soft, saturated brownish gray (5YR 4/1) SILT and CLAY, very cohesive	Silt & Clay		0.0	1325
20	9	22	WH-WH-WH-WH	2.0/2.0	<1	0-2.0 SAA			0.0	1517
22	10	24	WH-WH-WH-WH	2.0/2.0	<1	0-2.0 SAA			0.0	1542
24	11	26	WH-WH-WH-WH	2.0/2.0	<1	0-2.0 SAA			0.0	1544
26	12	28	WH-WH-WH-WH	2.0/2.0	<1	0-2.0 SAA			0.0	1615
28	13	30	WOR (2.0')	2.0/2.0	<1	0-2.0 SAA			0.0	10/27/11 0845
30	14	32	WOR-WOR-3-3	2.0/2.0	3	0-2.0 SAA, interbedded layers of silt and little fine sand throughout, grading to mostly silt and fine sand in bottom	Silt, clay, interbedded layers of silt & fine sand		0.0	848
32	15	34	1-1-2-3	2.0/1.5	3	0-1.5 SAA, slight increase in silt and fine sand			0.0	907
34	16	36	WOR-2-3-1	2.0/1.2	5	0-1.5 Soft, saturated, brownish gray (5YR 4/1) SILT, little fine sand, trace clay in interbedded layers	Silt & Fine Sand		0.0	928
36	17	38	4-6-6-5	2.0/2.0	12	0-1.2 SAA			0.0	934
38	18	40	3-2-3-3	2.0/1.5	5	0-2.0 Soft, saturated, brownish gray (5YR 4/1) fine SAND, some silt, trace thing laminations of clay throughout			0.0	1022
40	19	42	3-3-3-7	2.0/1.5	6	0-1.5 SAA, no clay			0.0	1025
42	20	44	6-6-7-6	2.0/1.5	13	0-1.5 Medium dense, saturated, brownish gray (5YR 4/1) fine to medium SAND and SILT	F-M Sand		0.0	1050
44	21	46	2-2-5-6	2.0/1.0	7	0-1.0 SAA, no silt			0.0	1120
46	22	48	10-9-9-11	2.0/2.0	18	0-2.0 SAA			0.0	1125
48	23	50	3-3-5-6	2.0/1.0	8	0-1.0 SAA			0.0	1145

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-115BR
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 10/26/2011**
File No.: 1163/48127	**Fall: 30"**	**End Date: 11/4/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Doug Richmond		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
50	24	52	2-2-5-5	2.0/2.0	7	0-0.2 Loose, saturated, medium dark gray (N4) medium to coarse SAND, some rounded small to medium gravel. 0.2-2.0 Soft, saturated, brownish gray (5YR 4/2) SILT and CLAY	Sand & Gravel transitioning to Silt & Clay		0.0	1150
52	25	54	1-WH-WH-2	2.0/1.2	WH	0-1.2 Very soft, saturated, brownish gray (5YR 4/1) SILT, trace clay	Silt, trace clay		0.0	1325
54	26	56	10-12-6-8	2.0/1.5	20	0-0.2 Soft, saturated, moderate brown (5YR 4/1) SILT. 0.2-1.5 Medium dense, saturated, brownish gray (5YR 4/1) medium to coarse SAND, some small to medium subrounded gravel, little silt.	Sand & Gravel		0.0	1351
56	27	58	12-9-7-8	2.0/1.5	16	0-1.5 SAA (0.2-1.5')			0.0	1400
58	28	60	10-6-8-8	2.0/0.0	14	No recovery, re drove 3" Split spoon. Soft saturated, brownish gray (5YR 4/1) SILT and fine SAND matrix supporting medium to coarse sand, few small to medium gravel, trace large rounded gravel	Silt, sand & gravel matrix supported		0.0	1442
60	29	62	10-10-9-10	2.0/0.0	19	No recovery, re drove 3" Split spoon, SAA			0.0	1449
62	30	64	7-12-11-11*	2.0/2.0	NA	0-2.0 Medium desne, saturated, olive gray (5Y 4/1) fine to medium SAND, little coarse sand, trace silt	F-M Sand & Silt		0.0	10/28/11 0830
64	31	66	13-12-10-8*	2.0/2.0	NA	0-2.0 SAA			0.0	905
66	32	68	11-9-24-33*	2.0/2.0	NA	0-1.6 SAA, some small to medium subrounded gravel. 1.6-2.0 Very stiff, saturated, grayish red (10R 4/2) SILT and fine SAND matrix supporting fine to medium to coarse sand and some small to medium to large gravel			0.0	910
68	33	70	22-20-20-22	2.0/1.5	40	0-1.5 Hard, wet, grayish red (10R 4/2) SILT matrix supporting medium to coarse sand and few small to medium to large sub angular gravel	Till		0.0	1030
70	34	72	29-12-45-50/0.4'	1.9/1.0	59	0-0.8 SAA. 0.8-1.0 Hard, dry, greenish gray (5GY 6/1) weathered SHALE, more competant with depth	Bedrock		0.0	1050
72	35	74	75/0.2'	0.2/0.2	>75	0-0.1 SAA (0.8-1.0). 0.1-0.2 Medium dark gray (N4) highly fractured SHALE			0.0	1131
74		76				4" Steel casing set 0-76' bgs, 4.0' into bedrock. Grouted to grade				11/4/2011
76		79				Used 3 7/8" roller bit to drill from 76-79'				
79		89				Rock Core using HQ size barrel. See core log for details				
						Well Construction (bgs)				
						Screen: 79-89 ft (10 slot)				
						Riser: +2.5-79 ft				
						#0 Sand: 77-79 ft				
						#00 Sand: 74-77 ft				
						Grout: 0-74 ft				

* 3" Split spoon sampler was used, N value is NA

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13202

CORE LOG

11/4/2011

Hole No.: SB915-MW-115BR | Job No.: 48127
Sheet 1 of 1 | Project: SB915 Closure

Formation / Member / Unit	Run No. / Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
		19	80.0	SHALE, reddish brown, fine grain, thinly laminated, heavily fractures from 79.0-80.0. Horizontal fractures			
		23	81.0	at 80.1, 80.9, 81.3, 81.5, 81.75, 82.2, 82.7 (color change to greenish gray at 90.7) 83.3.			
	1	25	82.0		5	100%	63%
		28	83.0				
		20	84.0				
		6	85.0	SHALE, greenish gray (5GY 6/1) thinly laminated, horizontal fractures at 84.1, 84.4, 84.6,, 84.95 (color			
		8.5	86.0	change to reddish brown at 85.3) 85.3, 85.5, 86.0, 86.55, 87.0, 87.4, 88.4, 88.5.			
	2	9	87.0		5	89%	58%
		8	88.0				
		10	89.0				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-116S
Client: Honeywell **Proj. Loc: Settling Basins 9-15 Camillus, NY** **File No.: 1163/48127**	**Sampler: 2" Split Spoon** **Hammer: 140-lb drop** **Fall: 30"**	**Location: SB915** **Start Date: 2/13/2012** **End Date: 2/13/2012**
Boring Company: Parratt-Wolff **Foreman: Rick Navatka** **OBG Geologist: Rob Hornung**		**Screen = \ Grout** **Riser Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	4-5-8-10	2.0/1.1	13	0.0'-1.1', dark yellowish brown (10YR 4/2) and medium gray SILT, some angular to sub-rounded gravel, trace fine sand, dry, medium dense	Fill	\ \	0.0	1327
2	2	4	20-24-50/0.0	1.0/1.0	>74	0.0'-1.0', dark yellowish brown (10YR 4/2) and medium light gray angular to sub-angular GRAVEL, some silt, trace fine sand, dry, loose		\ \	0.0	1333
4	3	6	15-31-51-41	2.0/1.0	82	0.0'-1.0', dark yellowish brown (10YR 4/2), pale yellowish brown (10YR 6/2), and medium light gray SILT, some angular to sub-angular gravel, trace fine sand, dry, loose	6.0'		0.0	1348
6	4	8	37-50-50/0.4	1.4/0.6	>100	0.0'-0.6', pale reddish brown (10R 5/4) CLAY, little medium light gray sub-angular gravel, dry, very dense	Clay		0.0	1354
8	5	10	4-5-5-8	2.0/0.6	10	0.0'-0.6', pale brown (5YR 5/2) CLAY, trace fine sand, saturated, medium dense		=	0.0	1418
10	6	12	3-5-8-12	2.0/1.4	13	0.0'-1.4', pale brown (5YR 5/2) CLAY, saturated, very dense		=	0.0	1431
12	7	14	9-10-11-11	2.0/2.0	21	0.0'-2.0', SAA		=	0.0	1439
14	8	16	5-6-7-8	2.0/1.3	13	0.0'-1.3', SAA		=	0.0	1453
16	9	18	8-9-8-11	2.0/2.0	17	0.0'-2.0', SAA, medium dense		=	0.0	1500
						End of Boring @ 18' bgs				
						Well Construction (bgs)				
						Screen: 8-18 ft (10 slot)				
						Riser: +2.0-18 ft				
						#0 Sand: 6-18 ft				
						#00 Sand: 4-6 ft				
						Grout: 0-4 ft				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-117S
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/20/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/20/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy, Rick Navatka **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	3-9-20-16	2.0/1.3	29	0.0'-1.3', dark yellowish brown (10YR 4/2), moderate yellowish brown (10YR 5/4), and medium gray SILT, some fine-medium-coarse angular to sub-angular gravel, trace clay, dry, dense	Fill	\ \	0.0	1303
2	2	4	15-15-13-15	2.0/1.0	28	0.0'-0.5', brownish gray (5YR 4/1) and medium gray SILT, little medium-coarse sub-angular to angular gravel, dry, dense, 0.5'-1.0', pale reddish brown (10R 5/4) and moderate yellowish brown (10YR 5/4) CLAY, trace fine angular gravel, dry, dense	2.5' Clay	\ \	0.0	1308
4	3	6	2-10-10-24	2.0/1.3	20	0.0'-1.3', pale reddish brown (10YR 5/4) CLAY, trace medium gray fine angular to sub-rounded gravel, dry, dense		\ \	0.0	1323
6	4	8	13-22-27-13	2.0/1.4	49	0.0'-1.4', pale reddish brown (10YR 5/4) CLAY, trace medium gray fine-medium angular to sub-rounded gravel, dry, dense		\ \	0.0	1328
8	5	10	5-4-10-12	2.0/1.2	14	0.0'-1.2', pale brown (5YR 5/2) and pale yellowish brown (10YR 6/2) CLAY, trace silt, moist, medium dense		\ \	0.0	1344
10	6	12	6-3-5-8	2.0/1.5	8	0.0'-1.5', pale brown (5YR 5/2) and moderate yellowish brown (10YR 5/4) CLAY, trace silt, moist, medium dense, mottling			0.0	1356
12	7	14	7-11-11-11	2.0/1.7	22	0.0'-1.7', moderate yellowish brown (10YR 5/4) CLAY, moist, medium dense			0.0	1406
14	8	16	2-2-3-2	2.0/2.0	5	0.0'-2.0', pale brown (5YR 5/2) and dark yellowish brown (10YR 6/6) CLAY, moist-wet, soft		=	0.0	1416
16	9	18	4-3-2-3	2.0/1.7	5	0.0'-1.7', pale brown (5YR 5/2) CLAY, wet, soft		=	0.0	1421
18	10	20	WH - 2.0	2.0/1.0	<1	0.0'-1.0', SAA, very soft		=	0.0	1437
20	11	22	WH - 2.0	2.0/2.0	<1	0.0'-2.0', SAA,	22.0'	=	0.0	1443
22	12	24	WH - 0.5-1-1-1	2.0/2.0	2	0.0'-2.0', pale brown (5YR 5/2) CLAY, some silt, wet, very soft	Clay with Silt	=	0.0	1447
						End of Boring @ 24' bgs				

Well Construction (bgs)
Screen: 14-24 ft (10 slot)
Riser: +2.5-14 ft
#0 Sand: 12-24 ft
#00 Sand: 9-12 ft
Grout: 0-9 ft

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-118BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/24/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 11/7/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	6-8-9-17	2.0/1.2	17	0-0.5 Soft, moist, brownish gray (5YR 4/1) SILT, trace f. sand and vegetation. 0.5-1.2 Hard, dry grayish red (10R 4/2) SILT matrix, supporting little m-c sand and small angular gravel	Silt Matrix Supporting Sand & Gravel	\ \	0.0	1457
2	2	4	16-19-27-21	2.0/1.2	46	0-1.2 SAA (0.5-1.2)		\ \	0.0	1502
4	3	6	7-6-4-4	2.0/0.4	10	0-0.4 SAA slightly moist, softer		\ \	0.0	1517
6	4	8	3-4-3-2	2.0/1.4	7	0-1.4 Soft to medium, grayish red (10R 4/2) SILT, trace c sand and small gravel, transitioning to dark yellowish brown (10YR 4/2) silt, some clay slightly cohesive	6.8' Silt some clay	\ \	0.0	1556
8	5	10	4-3-3-2	2.0/0.0	6	No Recovery		\ \	0.0	1613
10	6	12	WH-WH-2-1	2.0/0.8	2	0-0.8 Soft, saturated, brownish gray (5YR 4/1) SILT, some clay, interbedded lenses of silt with trace f sand throughout, slightly cohesive	Silt & Clay	\ \	0.0	1626
12	7	14	WH-WH-WH-WH	2.0/2.0	<1	0-2.0 SAA, cohesive		\ \	0.0	1631
14	8	16	WH-1-2-2	2.0/2.0	3	0-2.0 SAA, grading to slightly higher silt content with depth	Silt	\ \	0.0	1646
16	9	18	WH-1-2-2	2.0/2.0	3	0-2.0 Soft, saturated, brownish gray (5YR 4/2) SILT, trace clay and f sand		\ \	0.0	1658
18	10	20	2-2-3-4	2.0/2.0	5	0-2.0 SAA		\ \	0.0	
20	11	22	5-2-3-3	2.0/1.3	5	0-1.3 Soft to runny, saturated brownish gray (5YR 4/1) SILT, very trace f sand		\ \	0.0	10/25/11 824
22	12	24	3-3-3-3	2.0/2.0	6	0-2.0 SAA, slight increase in very f. sand	Silt V. Fine Sand	\ \	0.0	847
24	13	26	14-12-13-12	2.0/0.0	25	No Recovery		\ \	0.0	853
26	14	28	5-7-6-4	2.0/2.0	13	0-2.0 SAA (22-24')		\ \	0.0	900
28	15	30	4-3-4-2	2.0/2.0	7	0-2.0 SAA, little clay (1.5-2.0) slightly cohesive		\ \	0.0	910
30	16	32	5-8-8-8	2.0/1.5	16	0-1.0 SAA, no clay. 1.0-1.5 Loose, saturated medium dark gray (N4) f-m SAND	FM Sand	\ \	0.0	919
32	17	34	4-7-7-8	2.0/1.5	14	0-1.5 SAA (1.0-1.5')		\ \	0.0	927
34	18	36	4-5-6-8	2.0/2.0	11	0-1.5 Stiff, saturated, brownish gray (5YR 4/1) SILT and F. SAND. 1.5-2.0 Medium, saturated, brownish gray (5YR 4/1) f-m SAND	Silt and F. Sand	\ \	0.0	946
36	19	38	1-4-6-5	2.0/2.0	10	0-1.0 SAA (1.5-2.0). 1.0-2.0 Very soft, saturated, brownish gray (5YR 4/1) SILT and CLAY, very cohesive	Silt & Clay	\ \	0.0	1003
38	20	40	5-4-4-4	2.0/2.0	8	0-0.5 SAA (0-1.0). 0.5-2.0 SAA (1.0-2.0	FM Sand	\ \	0.0	1017
40	21	42	28-45-29-50/0.4	2.0/1.5	92	0-1.5 Very hard, moist, dark, reddish brown (10R 3/4) SILT, weathered shale	Dense Silt	\ \	0.0	1031
42	22	44	45-50/0.2	0.7/0.7	>95	0-0.7 SAA	Weathered Shale		0.0	1037

Temporary 4" steel casing set 0-20 ft bgs, used fluid rotarty to terminal depth

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-118BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/24/2011
File No.: 1163/48127	**Fall:** 30"	**End Date:** 11/7/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
44	23	46	75/0.3	0.3/0.3	>75	0-0.3 Very hard, dark reddish brown (10R 3/4) moist, SILT, weathered shale			0.0	1058
46		48	-	-	-	Set permanent 4" steel casing 0-44' bgs				
48		50	-	-	-	Drilled to 45' with 3 7/8" roller bit				
50		52	-	-	-	Cored Rock from 45-57 ' bgs				
52		54	-	-	-	See SB915-MW-118BR core log for details				
54		56	-	-	-					
56		58	-	-	-					
						Well Construction Details (bgs)				
						Screen: 47-57 ft				
						Riser: +2.5-47 ft				
						#0 Sand: 45-57 ft				
						#00 Sand: 42-45 ft				
						Grout: 0-42 ft				

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13202

CORE LOG

11/7/2011

Hole No.: SB915-MW-118BR | Job No.: 48127
Sheet 1 of 1 | Project: SB915 Closure

Formation / Member / Unit	Run No. / Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1		46.0 47.0 48.0 49.0 49.5	SHALE, reddish brown, fine grain, massive, heavily fractured throughout, crumbled	4.5	82%	22%
	2		50.5 51.5 52.5 53.5 54.5	SHALE, reddish brown, fine grain, massive, heavily fractured throughout, crumbled	5	58%	0%
	3		55.5 56.5 57.3	SHALE, reddish brown, fine grain, massive, heavily fractured throughout, crumbled	2.8	96%	0%

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-118S
Client: Honeywell **Proj. Loc:** Settling Basins 9-15 Camillus, NY **File No.:** 1163/48127	**Sampler:** 2" Split Spoon **Hammer:** 140-lb drop **Fall:** 30"	**Location:** SB915 **Start Date:** 11/8/2011 **End Date:** 11/8/2011
Boring Company: Parratt-Wolff **Foreman:** Doug Richmond **OBG Geologist:** Jonathan Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	4	-	-	-	Drilled to 4 ft bgs, see SB915-MW-118BR log for description	Fill Clay		-	-
4	1	6	5-6-7-7	2.0/2.0	NA	0-2.0 Medium dense, moist, grayish red (10YR 4/2) silt matrix supporting little m-c sand and small angular gravel	Silt, sand & gravel	=	0.0	1036
6	2	8	2-3-2-2	2.0/1.8	5	0-1.8 Soft to medium, grayish red SILT, trace c sand and small gravel transitioning to dark yellowish brown (10YR 4/2) silt, some clay, slightly cohesive	Silt & sand	=	0.0	1040
8	3	10	3-3-2-2	2.0/2.0	5	0-2.0 Soft, saturated, brownish gray (5YR 4/1) SILT, some clay, interbedded lenses of silt with little f sand throughout, cohesive in clay zones	Silt & Clay little f. sand lenses	=	0.0	1043
10	6	12	WH-WH-WH-WH	2.0/2.0	<1	0-2.0 SAA, slight increase in f sand in interbedded lenses		=	0.0	1148
12	5	14	WH-WH-1-1	2.0/2.0	1	0-2.0 SAA		=	0.0	1130
						End of Boring at 14 ft bgs				
						Well Construction (bgs)				
						Screen: 4-14 ft (10 slot)				
						Riser: +2.5-4ft				
						#0 Sand: 3-14 ft				
						#00 Sand: 1-3 ft				
						Concrete Pad: 0-1 ft				

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-36D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 1 **of** 7 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
0	1	2	WOH	2.0/0.3	WOH	light gray (N7), soft damp, solvay waste			24	905
							Solvay			
2	2	4	1	2.0/0.5	2	SAA	Waste		1.6	910
			1							
			1							
			1							
4	3	6	WOH	2.0/2.0	1	dark gray (N3) and light gray (N7), soft,			0.3	920
			1			wet, solvay waste				
			2							
6	4	8	1	2.0/2.0	2	SAA			0.1	930
			1							
			1							
			1							
8	5	10	2	2.0/1.5	2	SAA			0	940
			2							
			WOH							
10	6	12	WOH	2.0/0.5	WOH	SAA			0.2	955
12	7	14	WOH	2.0/1.0	2	SAA, saturated			0.6	1000
			1							
			1							
			1							
14	8	16	WOH	2.0/1.5	2	SAA			0	1005
			1				Solvay			
			1				Waste			
			1							
16	9	18	WOH	2.0/1.0	2	SAA			0.8	1010
			1							
			1							
			1							

Notes: See boring log for SB915-SB-36 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-36D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 2 **of** 7 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
18	10	20	WR	2.0/1.5	WR	SAA			0.2	1020
							Solvay			
20	11	22	WH	2.0/1.5	WH	SAA	Waste		0.6	1035
			WH							
			WH							
			1							
22	12	24	WH	2.0/1.5	WH	SAA			0.2	1043
			WH							
			WH							
			1							
24	13	26	WR	2.0/0.0	WR	No recovery			NA	1056
26	14	28	WR	2.0/1.0	WR	dark gray (N8), stiff, wet, solvay waste			1.8	1100
28	15	30	WH	2.0/1.5	WH	SAA			0.4	1105
30	16	32	WH	2.0/1.0	WH	SAA			1	1115
32	17	34	WH	2.0/1.0	WH	SAA			8.3	11233
							Solvay			
34	18	36	1	2.0/0.5	2	SAA, harder	Waste		5.7	1130
			1							
			1							
			4							

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-36D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 3 **of** 7 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
36	19	38	2	2.0/0.5	4	SAA, harder			1.8	1135
			2							
			2							
			3							
38	20	40	WH	2.0/1.0	1	dark gray (N3), stiff to soft, wet, solvay			18	1152
			WH			waste				
			1							
			5							
40	21	42	WH	2.0/1.0	1	SAA			1	1210
			WH				Solvay			
			1				Waste			
			2							
42	22	44	WH	2.0/1.0	1	SAA			0.1	1215
			WH							
			1							
			2							
44	23	46	WH	2.0/1.0	1	SAA			0	1335
			WH							
			1							
			1							
46	24	48	WH	2.0/1.0	WH	SAA			0	1345
48	25	50	WH	2.0/0.5	1	SAA			0	1355
50	26	52	WH	2.0/0.5	2	SAA			0	1403
			2							
			3							
52	27	54	WH	2.0/0.5	2	SAA			0	1410
			2							
			3							

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-36D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 4 **of** 7 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
54	28	56	WH	2.0/0.5	WH	SAA			1	1432
			WH							
56	29	58	WH	2.0/0.5	1	SAA			0	1450
			WH							
			1							
			1							
58	30	60	WH	2.0/0.5	1	SAA	Solvay Waste		0.3	1456
			WH							
			1							
			1							
										7/24/06
60	31	62	WR	2.0/2.0	WR	SAA up to 61.8'bg, then is grayish black (N2), soft, damp PEAT			0	920
							61.8'			
							Peat			
62	32	64	8	2.0/1.0	25	mod brown (5YR4/4) hard, damp, silty clay	62'		0	940
			12							
			13				Silty Clay			
			20				64'			
64	33	66	14	2.0/1.5	55	mod brown (5YR4/4) hard, wet, SILT and f sand, some clay - casing installed at 68'bg - mud rotary after this depth	Silt		0	1000
			25							
			30							
			23							
66		68	NA	NA	NA	No sample collected from 66'-68' 4" steel casing set at 68'				
										7/25/06
68	34	70	12	2.0/0.8	20	mod yellowish brown (10YR5/4) saturated, hard, SILT, trace to little f sand			0.3	910
			8							
			12							
			10							
70	35	72	7	2.0/1.4	24	SAA, SILT w/ some f sand, 6" layer w/ some clay from 70.8-71.3'			0.1	920
			7							
			17							
			20							

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-36D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 5 **of** 7 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
72	36	74	14	2.0/1.2	31	dark yellowish brown (10YR4/2) saturated, v. hard, SILT, little f sand	Silt		0.3	930
			16							
			15							
			4							
74	37	76	9	2.0/1.8	8	1.0' - SAA, some f sand, stiff 0.8' - SAA, SILT, little clay, trace f sand			0.2	1000
			6							
			2				75'			
			1							
76	38	78	WH	2.0/2.0	1	dark yellow brown (10YR4/2), wet, soft, SILT, some clay, very cohesive, slightly plastic	Silt/Clay		0	1005
			1							
			1							
78	39	80	12	2.0/1.2	13	dark yellow brown (10YR4/2), wet, stiff, compacted SILT, little f sand			0	1025
			10							
			3							
			14							
80	40	82	15	2.0/2.0	13	1.0'-SAA w/ trace clay, saturated. 0.5' - SAA SILT, little f sand. 0.5' - dark yellow brown (10YR4/2) wet, stiff, SILT & CLAY, cohesive			0	1030
			7							
			6							
			6							
82	41	84	4	2.0/2.0	6	SAA firm SILT, some clay			0	1035
			5							
			1							
			1							
84	42	86	WH	2.0/1.7	WH	0.7' - SAA, soft. 1.0' - dark yellowish brown (10YR4/2) wet, soft, CLAY, some silt, extremely cohesive, not plastic			0	1100
			WH							
86	43	88	WH	2.0/2.0	WH	SAA, SILT & CLAY, very cohesive, plastic			0	1115
			WH							
88	44	90	WH	2.0/2.0	WH	SAA			0	1130
			WH							

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-36D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 6 **of** 7 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
90	45	92	WH	2.0/2.0	WH	SAA, SILT, some clay			0	1135
			WH							
92	46	94	WH	2.0/2.0	3	SAA			0	1215
			3							
			3							
94	47	96	WH	2.0/1.0	WH	dark yellowish brown (10YR4/2)wet, soft, SILT& CLAY, very cohesive, plastic			0	1250
			WH							
96	48	98	WH	2.0/2.0	5	1': SAA. 1': fine to medium GRAVEL and coarse to fine SAND, some fine sand, little silt, wet.			0	1300
			5				97'			
			6							
98	49	100	4	2.0/1.2	21	dark yellowish brown (10YR4/2)wet, hard, SILT, little f sand			0	1415
			8							
			13							
			11							
100	50	102	15	2.0/2.0	45	0.7' - SAA. 1.3' dark to pale yellow brown (10YR6/2), moist, dense, F. SAND, little silt			0.1	1425
			21							
			24				Fine Sand / Silt			
			22							
102	51	104	25	2.0/1.0	60	dark yellow brown (10YR4/2), wet, v. dense, F. SAND, trace silt, trace med. Sand, saturated in nose			0.1	1430
			26							
			34							
			32							
										7/26/06
104	NA	108	NA	NA	NA	collected discrete water sample for analysis (106.5'-107.5')	104'		0.1	925
							106'			
108	52	110	17	2.0/0.8	36	dark yellow brown (10YR4/2), wet, dense, F. SAND, little med sand, trace silt, becoming coarser with depth	108'	=	0.1	1110
			17					=		
			19					=		
			25					=		
								=		
								=		
								=		

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-36D
Client: Honeywell	**Sampler: 2" Spoon**	**Page** 7 **of** 7
Proj. Loc: Settling Basins 9 - 15 Geddes/Camillus, NY	**Automatic Hammer**	**Location:** Settling Basin 14
File No.: 1163/36327	**Drop: 30"**	**Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = **Riser** | **Grout** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
110	53	112	17	2.0/1.0	44	dark yellow brown to pale yellow brown (5YR5/2), wet, dense, M> SAND, trace silt, some f sand		=	0.1	1120
			23					=		
			21					=		
			20					=		
								=		
112	54	114	50	1.4/1.4	>80	1.0' - SAA, M. SAND, little f sand. 0.4' - grayish to pale brown (5YR5/2), saturated, extremely dense, f/c GRAVEL (angular-sub-rounded), trace silt, trace sand		=	0	1145
			30					=		
			50/0.4				113'	=		
								=		
								=		
114	55	116	43	1.4/0.7	>100	SAA, little fissile shale-like pieces of gravel	Till	=	1.8	1230
			75					=		
			50/0.4					=		
								=		
								=		
116	56	118	36	2.0/0.8	53	greenish/grayish w/ some brownish, wet, extremely hard, F/M GRAVEL, w/ little silt (matrix)		=	7.7	1345
			30					=		
			23					=		
			20					=		
							118'	=		
						EOB				

Notes: Well set @ 118', screen 118'-108' sand 118'-106', seal 106'-104', grout to grade
Well set at boring SB915-SB-36 - boring completed to 118 ft.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-SB-36
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 1 **of** 4 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
0	1	2	WOH	2.0/0.3	WOH	light gray (N7), soft damp, solvay waste			24	905
							Solvay			
2	2	4	1	2.0/0.5	2	SAA	Waste		1.6	910
			1							
			1							
			1							
4	3	6	WOH	2.0/2.0	1	dark gray (N3) and light gray (N7), soft,			0.3	920
			1			wet, solvay waste				
			2							
6	4	8	1	2.0/2.0	2	SAA			0.1	930
			1							
			1							
			1							
8	5	10	2	2.0/1.5	2	SAA			0	940
			2							
			WOH							
10	6	12	WOH	2.0/0.5	WOH	SAA			0.2	955
12	7	14	WOH	2.0/1.0	2	SAA, saturated			0.6	1000
			1							
			1							
			1							
14	8	16	WOH	2.0/1.5	2	SAA			0	1005
			1				Solvay			
			1				Waste			
			1							
16	9	18	WOH	2.0/1.0	2	SAA			0.8	1010
			1							
			1							
			1							

Notes: See boring log for SB915-SB-36 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-SB-36
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 2 **of** 4 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
18	10	20	WR	2.0/1.5	WR	SAA			0.2	1020
							Solvay			
20	11	22	WH	2.0/1.5	WH	SAA	Waste		0.6	1035
			WH							
			WH							
			1							
22	12	24	WH	2.0/1.5	WH	SAA			0.2	1043
			WH							
			WH							
			1							
24	13	26	WR	2.0/0.0	WR	No recovery			NA	1056
26	14	28	WR	2.0/1.0	WR	dark gray (N8), stiff, wet, solvay waste			1.8	1100
28	15	30	WH	2.0/1.5	WH	SAA			0.4	1105
30	16	32	WH	2.0/1.0	WH	SAA			1	1115
32	17	34	WH	2.0/1.0	WH	SAA			8.3	11233
							Solvay			
34	18	36	1	2.0/0.5	2	SAA, harder	Waste		5.7	1130
			1							
			1							
			4							

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-SB-36
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 3 **of** 4 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
36	19	38	2	2.0/0.5	4	SAA, harder			1.8	1135
			2							
			2							
			3							
38	20	40	WH	2.0/1.0	1	dark gray (N3), stiff to soft, wet, solvay			18	1152
			WH			waste				
			1							
			5							
40	21	42	WH	2.0/1.0	1	SAA			1	1210
			WH				Solvay			
			1				Waste			
			2							
42	22	44	WH	2.0/1.0	1	SAA			0.1	1215
			WH							
			1							
			2							
44	23	46	WH	2.0/1.0	1	SAA			0	1335
			WH							
			1							
			1							
46	24	48	WH	2.0/1.0	WH	SAA			0	1345
48	25	50	WH	2.0/0.5	1	SAA			0	1355
							48'			
50	26	52	WH	2.0/0.5	2	SAA			0	1403
			2							
			3				50'			
52	27	54	WH	2.0/0.5	2	SAA	52'	=	0	1410
			2					=		
			3					=		
								=		
								=		
								=		
								=		

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-SB-36
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 4 **of** 4 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
54	28	56	WH	2.0/0.5	WH	SAA		=	1	1432
			WH					=		
								=		
								=		
								=		
56	29	58	WH	2.0/0.5	1	SAA		=	0	1450
			WH					=		
			1					=		
			1					=		
								=		
58	30	60	WH	2.0/0.5	1	SAA	Solvay Waste	=	0.3	1456
			WH					=		
			1					=		
			1					=		
								=		7/24/06
60	31	62	WR	2.0/2.0	WR	SAA up to 61.8'bg, then is grayish black (N2), soft, damp PEAT		=	0	920
								=		
								=		
							61.8'	=		
							Peat	=		
62	32	64	8	2.0/1.0	25	mod brown (5YR4/4) hard, damp, silty clay	62'	62'	0	940
			12							
			13				Silty Clay 64'			
			20							
64	33	66	14	2.0/1.5	55	mod brown (5YR4/4) hard, wet, SILT and f sand, some clay - casing installed at 68'bg - mud rotary after this depth	Silt		0	1000
			25							
			30							
			23							
66		68	NA	NA	NA	No sample collected from 66'-68' 4" steel casing set at 68'				
										7/25/06
68	34	70	12	2.0/0.8	20	mod yellowish brown (10YR5/4) saturated, hard, SILT, trace to little f sand			0.3	910
			8							
			12							
			10							
70	35	72	7	2.0/1.4	24	SAA, SILT w/ some f sand, 6" layer w/ some clay from 70.8-71.3'			0.1	920
			7							
			17							
			20							

Notes: Well set at SB915-SB-36 boring location - boring completed to 118'.
Well set @ 62', screen 62'-52' sand 62'-50', seal 50'-48', grout to grade

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-36S
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 1 **of** 1 **Location:** Settling Basin 14 **Start Date:** 7/21/2006 **End Date:** 7/26/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Joe Percy **Drill Rig:** CME 850 **Geologist:** Yuri Veliz, Jason Williams		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
0	1	2	WOH	2.0/0.3	WOH	light gray (N7), soft damp, solvay waste			24	905
							Solvay			
2	2	4	1	2.0/0.5	2	SAA	Waste		1.6	910
			1							
			1							
			1							
4	3	6	WOH	2.0/2.0	1	dark gray (N3) and light gray (N7), soft,			0.3	920
			1			wet, solvay waste				
			2							
							4'			
6	4	8	1	2.0/2.0	2	SAA			0.1	930
			1				6'			
			1							
8	5	10	2	2.0/1.5	2	SAA		=	0	940
			2				8'	=		
			WOH					=		
10	6	12	WOH	2.0/0.5	WOH	SAA		=	0.2	955
12	7	14	WOH	2.0/1.0	2	SAA, saturated		=	0.6	1000
			1					=		
			1					=		
			1					=		
14	8	16	WOH	2.0/1.5	2	SAA		=	0	1005
			1				Solvay	=		
			1				Waste	=		
			1					=		
16	9	18	WOH	2.0/1.0	2	SAA		=	0.8	1010
			1					=		
			1					=		
			1					=		
							18'	=		

Notes: Well set at SB915-SB-36 boring location - boring completed to 118'.
Well set @ 18', screen 18'-8' sand 18'-6', seal 6'-4', grout to grade
See boring log for SB915-SB-36 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-40S
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 1 **of** 3 **Location:** Settling Basin 9-10 **Start Date:** 6/1/2006 **End Date:** 6/13/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Yuri Veliz/Robert Trent		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
0	1	2	2	2.0/0.1	5	Poor Recovery- topsoil		\ \ \	0	1050
			4				Top	\ \ \		
			1				Soil	\ \ \		
			1					\ \ \		
								\ \ \		
2	2	4	2	2.0/1.5	2	yellowish gray (5Y8/1)and med. Gray (N3)	Solvay	\ \ \	0	1052
			1			interlayered, soft, moist, solvay waste	Waste	\ \ \		
			1					\ \ \		
			1					\ \ \		
								\ \ \		
4	3	6	WOH	2.0/0.0	2	No Recovery		\ \ \	NA	1100
			1					\ \ \		
			1					\ \ \		
			1					\ \ \		
								\ \ \		
6	4	8	WOH	2.0/2.0	3	white (N9) and med. Gray (N3)		\ \ \	0	1104
			2			interlayered, moist, soft, solvay waste		\ \ \		
			1					\ \ \		
								\ \ \		
								\ \ \		
8	5	10	2	2.0/1.5	3	SAA		\ \ \	0	1115
			2					\ \ \		
			1				Solvay	\ \ \		
			2				Waste	\ \ \		
								\ \ \		
10	6	12	WOH	2.0/1.5	2	SAA		\ \ \	0	1120
			1					\ \ \		
			1					\ \ \		
			1					\ \ \		
								\ \ \		
12	7	14	5	2.0/1.0	13	SAA, harder at last .5'		\ \ \	0	1125
			7					\ \ \		
			6					\ \ \		
			7					\ \ \		
								\ \ \		
14	8	16	WOH	2.0/1.5	2	SAA		\ \ \	0	1135
			1					\ \ \		
			1					\ \ \		
			2					\ \ \		
								\ \ \		
16	9	18	2	2.0/1.0	3	SAA		\ \ \	0	1140
			1					\ \ \		
			2					\ \ \		
			3					\ \ \		
								\ \ \		
								\ \ \		
								\ \ \		

Notes: See boring log for SB915-SB-40 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915 - MW-40S
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 2 **of** 3 **Location:** Settling Basin 9-10 **Start Date:** 6/1/2006 **End Date:** 6/13/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Yuri Veliz/Robert Trent		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
18	10	20	4	2.0/1.0	4	SAA, harder			0	1145
			2							
			2							
			1							
20	11	22	2	2.0/0.5	7	SAA, harder			0	1155
			6							
			1							
			1							
22	12	24	1	2.0/0.5	5	SAA			0	1200
			2							
			3							
			1							
24	13	26	WOH	2.0/1.0	1	SAA			0	1250
			WOH							
			1							
			1							
26	14	28	1	2.0/1.0	2	SAA			0	1258
			1							
			1							
			1				Solvay Waste			
28	15	30	4	2.0/1.0	3	SAA			0	1302
			2							
			1							
			2							
30	16	32	WOR	2.0/1.2		Poor recovery - hard (silt and sand size particles)			0	1320
							31'			
32	17	34	1	2.0/1.0	4	white (N9) wet, firm, solvay waste			0	1330
			2							
			2							
			1				33'			
34	18	36	1	2.0/1.0	2	SAA			0	1333
			1							
			1							
			1				35'	=		
								=		
								=		
								=		

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915 - MW-40S
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 3 **of** 3 **Location:** Settling Basin 14 **Start Date:** 6/1/2006 **End Date:** 6/13/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Yuri Veliz/Robert Trent		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
36	19	38	1	2.0/2.0	2	SAA		=	0	1340
			1					=		
			1					=		
			1					=		
								=		
38	20	40	1	2.0/0.5	2	SAA		=	0	1345
			1					=		
			1					=		
			1					=		
								=		
40	21	42	WOH	2.0/1.0	1	white (N9) moist, soft, solvay waste		=	0	1400
			1					=		
			1					=		
								=		
								=		
42	22	44	WOH	2.0/1.0	1	SAA		=	0	1405
			1					=		
			1					=		
								=		
								=		
44	23	46	1	2.0/1.5	3	SAA		=	0	1408
			2					=		
			1				45'	=		
			1							
										6/5/06
46	24	48	2	2.0/2.0	4	white (N9) siltsized particles in consolidated matrix, some lightly cemented, banding	Solvay Waste		4.3	815
			1							
			3							
			2							
48	25	50	5	2.0/2.0	10	SAA			0	830
			5							
			5							
			5							
50	26	52	WOH	2.0/2.0	3	SAA, @ 51.5' organics (leaves) mixed in			15.4	900
			2							
			1							
			1							
52	27	54	WOH	2.0/2.0	3	SAA			14.9	915
			1							
			2							
			3							

Notes: Well set at SB915-SB-40 boring location - boring completed to 162.1'
Well set @ 45', screen 45'-35' sand 35'-33', seal 33'-31', grout to grade

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 1 **of** 7 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
0	1	2	WOH(1.5')	2.0/1.5	WOH	Medium dark gray (N4)and Medium light gray (N6)banding of silt and sand sized particles in consolidated matrix, moist. Very soft			0	915
			2							
2	2	4	1	2.0/1.5	1	Medium light gray(N6) and white (N9) banding of silt sized particles in consolidated matrix.Very soft			0	920
			1 (1')							
			1							
4	3	6	1	2.0/0.5	6	Medium dark gray(N4) and white(N9) banding of silt and sand sized particles in cemented to paste-like, moist to wet. Firm			0	925
			6							
			WOH							
			2							
6	4	8	1	2.0/2.0	3	SAA, moist.			0	930
			2							
			1							
			1							
8	5	10	2	2.0/1.5	17	SAA, cemented to lightly cemented.	Solvay Waste		1.8	1040
			14							
			3							
			1							
10	6	12	6	2.0/0.5	13	SAA			12.4	1050
			5							
			8							
			1							
12	7	14	2	2.0/1.5	5	SAA			16.4	1100
			2							
			3							
			2							
14	8	16	1	2.0/1.5	2	SAA			1.6	1110
			1							
			1							
			1							
16	9	18	1	2.0/1.0	2	SAA, paste-like to consolidated, banding			8.1	1115
			1							
			1							
			1							

Notes: See boring log for SB915-SB-42 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 2 **of** 7 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
18	10	20	1	2.0/1.5	2	SAA			3.3	1125
			1							
			1							
			1							
20	T-1	22	-	2.0/1.7	-	Shelby Tube collected			-	1215
22	11	24	10	2.0/2.0	21	Same as 18-20', cemented.			0	1230
			10							
			11							
			12							
24	12	26	2	2.0/2.0	11	SAA			0	1245
			5							
			6							
			7							
26	13	28	3	2.0/2.0	5	White(N9), Medium dark gray(N4), and			0	1255
			3			medium light gray(N6) banding of				
			2			cemented and lighlty cemented sand				
			2			sized particles, wet.	Solvay Waste			
28	14	30	3	2.0/2.0	7	SAA			0	1305
			3							
			4							
			5							
30	15	32	WOR(1')	2.0/1.5	1+	SAA, cemented to consolidated, banding.			0	1340
			1							
			2							
32	16	34	5	2.0/1.5	1	SAA			0	1350
			4							
			3							
			3							
34	17	36	WOH(1')	2.0/1.5	1+	SAA			0	1420
			1							
			1							

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 3 **of** 7 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
36	18	38	4	2.0/1.0	4	SAA			0	1430
			2							
			2							
			3							
38	19	40	4	2.0/2.0	13	SAA			0	1445
			6							
			7							
			8							
40	20	42	WOH(1')	2.0/1.0	2+	White(N9) silt sized particles, consolidated			0	1600
			2			to cemented matrix, wet.				
			4							
42	21	44	5	2.0/2.0	13	SAA, cemented			0	1610
			6							
			7							
			3							
44	22	46	1	2.0/2.0	1	White(N9) silt sized, consolidated.			6.3	1625
			1 (1')							
			1							
46	23	48	1	2.0/2.0	1	SAA			8.4	1135
			1 (1')							
			1							
							Solvay Waste			
48	24	50	1 (1')	2.0/2.0	1	SAA			6.5	1650
			1 (1')							
										5/16/06
50	25	52	WOR(2')	2.0/1.5	WOR	SAA, consolidated			3	0940
52	26	54	1	2.0/2.0	1	SAA			2.6	1000
			1(1')							
			1							

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 4 **of** 7 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
54	27	56	1 (1')	2.0/2.0	1	White(N9) silt sized particles,			3.9	1115
			1 (1')			consolidated, wet, trace sand sized				
						particles.				
56	28	58	5	2.0/2.0	7	SAA			3.5	1130
			4							
			3							
			3							
58	29	60	WOH(1')	2.0/2.0	3	SAA			5.7	1145
			3							
			4							
60	30	62	WOR(2')	2.0/2.0	WOR	SAA	Solvay Waste		2	1240
62	31	64	WOR	2.0/2.0	4	SAA			2.6	1250
			2							
			2							
			2							
64	32	66	WOR(2')	2.0/2.0	WOR	SAA			3	1315
66	33	68	3	2.0/2.0	7	SAA			1.7	1330
			3							
			4							
			3							
68	34	70	1	2.0/2.0	2	1.5': SAA. 0.3': SAA with grass in it. 0.2':			1.8	1345
			1			Brownish black (5YR2/1) silt and organics.				
			1							
			9				69.8'			
70	35	72	4	2.0/1.0	20	Olive gray (5Y4/1) SILT and CLAY, little			0	1425
			10			roots, moist, hard	Silt			
			10							
			10							

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 5 **of** 7 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
72	36	74	17	2.0/1.5	32	SAA, increased organics			0	1450
			16							
			16							
			17							
										5/19/06
84	37	86	6	2.0/1.75	17	Pale brown (5YR5/2)CLAY and SILT, little	Clay		0	0800
			6			fine sand grading to SILT and fine SAND,				
			11			some clay, wet.				
			18							
86	38	88	11	2.0/2.0	31	Pale brown(5YR5/2) SILT and fine SAND,			0	0815
			14			little clay, wet.				
			17							
			18							
88	39	90	14	2.0/	27	SAA, SILT and f SAND, litle clay.	Silt		0	0835
			11							
			16							
			15							
90	40	92	7	2.0/1.0	18	Pale brown(5YR5/2) fine SAND and SILT,	Sand		0	0945
			9			little clay, wet.				
			9							
			8							
92	41	94	5	2.0/1.5	12	SAA			0	1000
			5							
			7							
			15							
94	42	96	6	2.0/1.25	13	SAA			0	1040
			6							
			7							
			14							
96	43	98	14	2.0/2.0	17	0.5': SAA. 1': fine to medium SAND, some			0	1055
			8			silt. 0.5': Same as 94-96', wet, in sluff c				
			9			gravel sized Green shale				
			19							
98	44	100	24	2.0/1.75	30	Pale brown(5YR5/2) fine to medium			0	1130
			14			SAND and SILT, wet.				
			16							
			17							

Notes: MW-42S: 40'-30' screen
Set casing at 74'.
Drillers miscounted rods and drilled to 84' instead of 74'.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42D
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 6 **of** 7 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
100	45	102	5	2.0/1.0	23	SAA		\	0	1240
			9				Sand	\		
			14					\		
			12					\		
								\		
102	46	104	4	2.0/2.0	20	SAA		\	0	1300
			8					\		
			12					\		
			16					\		
								\		5/22/06
110	47	112	14	2.0/1.0	22	SAA		\	0	1530
			11					\		
			11					\		
			13					\		
								\		
112	48	114	17	2.0/2.0	32	1': SAA. 1': fine to medium GRAVEL and coarse to fine SAND, some fine sand, little silt, wet.		\	0	1610
			16					\		
			16					\		
			14					\		
								\		5/23/06
114	49	116	7	2.0/1.0	20	Moderate brown(5YR4/4) band of silt, some fine sand 2". Moderate brown medium to fine GRAVEL and coarse to medium SAND, some fine sand , some silt, little clay.		\	0	0815
			6					\		
			14					\		
			14					\		
								\		
116	50	118	16	2.0/1.0	34	Gray fine to medium GRAVEL and coarse to medium SAND, some fine sand, some silt.	Gravel	\	0	0830
			19					\		
			15					\		
			18					\		
								\		
118	51	120	14	2.0/1.75	29	SAA	118'	\	0	0900
			14					▒		
			15				120'	▒		
			14					▒		
							122'	=		
126	52	128	8	2.0/1.75	27	Medium Gray(N5) fine to medium GRVEL and coarse to medium SAND, some c gravel and fine sand, little silt.		=	0	1530
			12					=		
			15					=		
			32					=		
								=		
128	53	130	10	1.25/1.25	77+	SAA, increase in coarse gravel.		=	0	1605
			27					=		
			50/0.25'					=		
								=		
								=		
								=		
								=		

Notes:
Water sample collected from 109.5 to 106.5' - 5/22/06 @ 1420
Water sample collected from 122 to 125' - 5/23/06 @ 1400

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42D
Client: Honeywell	**Sampler: 2" Spoon**	**Page** 7 **of** 7
Proj. Loc: Settling Basins 9 - 15 Geddes/Camillus, NY	**Automatic Hammer**	**Location:** Settling Basins 9-10
File No.: 1163/36327	**Drop: 30"**	**Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Riser** | **Grout** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
130	54	132	50/0.4'	0.4/????	50+	SAA, TILL?	Reworked Till	= = = = =	0	5/24/06 0830
132	55	134	44	1.1/0.5	95+	Pale reddish brown (10R5/4) CLAY and SILT, with fine gravel, some coarse sand.	Till	132'	0	0950
			45							
			50/0.1'							
						EOB at 133.1ft				

Notes: Well set at SB915-SB-42 boring location - boring completed to 133.1'
Well set @ 132', screen 132'-122' sand 122'-120', seal 120'-118', grout to grade

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42I
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 1 **of** 4 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
0	1	2	WOH(1.5')	2.0/1.5	WOH	Medium dark gray(N4) and Medium light gray(N6) banding of silt and sand sized particles in consolidated matrix, moist. Very soft			0	915
			2							
2	2	4	1	2.0/1.5	1	Medium light gray(N6) and white(N9) banding of silt sized particles in consolidated matrix.Very soft			0	920
			1 (1')							
			1							
4	3	6	1	2.0/0.5	6	Medium dark gray(N4) and white(N9) banding of silt and sand sized particles in cemented to paste-like, moist to wet. Firm			0	925
			6							
			WOH							
			2							
6	4	8	1	2.0/2.0	3	SAA, moist.			0	930
			2							
			1							
			1							
8	5	10	2	2.0/1.5	17	SAA, cemented to lightly cemented.	Solvay Waste		1.8	1040
			14							
			3							
			1							
10	6	12	6	2.0/0.5	13	SAA			12.4	1050
			5							
			8							
			1							
12	7	14	2	2.0/1.5	5	SAA			16.4	1100
			2							
			3							
			2							
14	8	16	1	2.0/1.5	2	SAA			1.6	1110
			1							
			1							
			1							
16	9	18	1	2.0/1.0	2	SAA, paste-like to consolidated, banding			8.1	1115
			1							
			1							
			1							

Notes: See boring log for SB915-SB-42 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42I
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 2 **of** 4 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
18	10	20	1	2.0/1.5	2	SAA			3.3	1125
			1							
			1							
			1							
20	T-1	22	-	2.0/1.7	-	Shelby Tube collected			-	1215
22	11	24	10	2.0/2.0	21	Same as 18-20', cemented.			0	1230
			10							
			11							
			12							
24	12	26	2	2.0/2.0	11	SAA			0	1245
			5							
			6							
			7							
26	13	28	3	2.0/2.0	5	White(N9), Medium dark gray(N4), and			0	1255
			3			medium light gray(N6) banding of				
			2			cemented and lighlty cemented sand				
			2			sized particles, wet.	Solvay Waste			
28	14	30	3	2.0/2.0	7	SAA			0	1305
			3							
			4							
			5							
30	15	32	WOR(1')	2.0/1.5	1+	SAA, cemented to consolidated, banding.			0	1340
			1							
			2							
32	16	34	5	2.0/1.5	1	SAA			0	1350
			4							
			3							
			3							
34	17	36	WOH(1')	2.0/1.5	1+	SAA			0	1420
			1							
			1							

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42I
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 3 **of** 4 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
36	18	38	4	2.0/1.0	4	SAA			0	1430
			2							
			2							
			3							
38	19	40	4	2.0/2.0	13	SAA			0	1445
			6							
			7							
			8							
40	20	42	WOH(1')	2.0/1.0	2+	White(N9) silt sized particles, consolidated			0	1600
			2			to cemented matrix, wet.				
			4							
42	21	44	5	2.0/2.0	13	SAA, cemented			0	1610
			6							
			7							
			3							
44	22	46	1	2.0/2.0	1	White(N9) silt, consolidated.			6.3	1625
			1 (1')							
			1							
46	23	48	1	2.0/2.0	1	SAA			8.4	1135
			1 (1')							
			1							
							Solvay Waste			
48	24	50	1 (1')	2.0/2.0	1	SAA			6.5	1650
			1 (1')							
										5/16/06
50	25	52	WOR(2')	2.0/1.5	WOR	SAA, consolidated			3	0940
52	26	54	1	2.0/2.0	1	SAA			2.6	1000
			1(1')							
			1							

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42I
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 4 **of** 4 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
54	27	56	1 (1')	2.0/2.0	1	White(N9) silt sized particles,		\ \	3.9	1115
			1 (1')			consolidated, wet, trace sand sized		\ \		
						particles.	55'			
56	28	58	5	2.0/2.0	7	SAA			3.5	1130
			4							
			3							
			3				57'			
58	29	60	WOH(1')	2.0/2.0	3	SAA			5.7	1145
			3							
			4							
							59'	=		
60	30	62	WOR(2')	2.0/2.0	WOR	SAA	Solvay Waste	=	2	1240
62	31	64	WOR	2.0/2.0	4	SAA		=	2.6	1250
			2					=		
			2					=		
			2					=		
64	32	66	WOR(2')	2.0/2.0	WOR	SAA		=	3	1315
66	33	68	3	2.0/2.0	7	SAA		=	1.7	1330
			3					=		
			4					=		
			3					=		
68	34	70	1	2.0/2.0	2	1.5': SAA. 0.3': SAA with grass in it. 0.2':		=	1.8	1345
			1			Brownish black (5YR2/1) silt and organics.		=		
			1				69'	=		
			9				69.8'			
70	35	72	4	2.0/1.0	20	Olive gray (5Y4/1) SILT and CLAY, little			0	1425
			10			roots, moist, hard	Silt			
			10							
			10							

Notes: Well set at SB915-SB-42 boring location - boring completed to 133.1'
Well set @ 69', screen 59'-69' sand 69'-57', seal 57'-55', grout to grade

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42S
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 1 **of** 3 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
0	1	2	WOH(1.5')	2.0/1.5	WOH	Medium dark gray(N4) and Medium light gray(N6) banding of silt and sand sized particles in consolidated matrix, moist. Very soft			0	915
			2							
2	2	4	1	2.0/1.5	1	Medium light gray(N4) and white(N9) banding of silt sized particles in consolidated matrix.Very soft			0	920
			1 (1')							
			1							
4	3	6	1	2.0/0.5	6	Medium dark gray(N4) and white(N9) banding of silt and sand sized particles in cemented to paste-like, moist to wet. Firm			0	925
			6							
			WOH							
			2							
6	4	8	1	2.0/2.0	3	SAA, moist.			0	930
			2							
			1							
			1							
8	5	10	2	2.0/1.5	17	SAA, cemented to lightly cemented.	Solvay Waste		1.8	1040
			14							
			3							
			1							
10	6	12	6	2.0/0.5	13	SAA			12.4	1050
			5							
			8							
			1							
12	7	14	2	2.0/1.5	5	SAA			16.4	1100
			2							
			3							
			2							
14	8	16	1	2.0/1.5	2	SAA			1.6	1110
			1							
			1							
			1							
16	9	18	1	2.0/1.0	2	SAA, paste-like to consolidated, banding			8.1	1115
			1							
			1							
			1							

Notes: See boring log for SB915-SB-42 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42S
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 2 **of** 3 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
18	10	20	1	2.0/1.5	2	SAA		\	3.3	1125
			1					\		
			1					\		
			1					\		
								\		
20	T-1	22	-	2.0/1.7	-	Shelby Tube collected		\	-	1215
								\		
								\		
								\		
								\		
22	11	24	10	2.0/2.0	21	Same as 18-20', cemented.		\	0	1230
			10					\		
			11					\		
			12					\		
								\		
24	12	26	2	2.0/2.0	11	SAA		\	0	1245
			5					\		
			6					\		
			7					\		
								\		
26	13	28	3	2.0/2.0	5	White(N9), Medium dark gray(N4), and	26'		0	1255
			3			medium light gray(N6) banding of				
			2			cemented and lighlty cemented sand				
			2			sized particles, wet.	Solvay Waste			
28	14	30	3	2.0/2.0	7	SAA	28'		0	1305
			3							
			4							
			5							
30	15	32	WOR(1')	2.0/1.5	1+	SAA, cemented to consolidated, banding.	30'	=	0	1340
			1					=		
			2					=		
								=		
								=		
32	16	34	5	2.0/1.5	1	SAA		=	0	1350
			4					=		
			3					=		
			3					=		
								=		
34	17	36	WOH(1')	2.0/1.5	1+	SAA		=	0	1420
			1					=		
			1					=		
								=		
								=		
								=		
								=		

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-42S
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 3 **of** 3 **Location:** Settling Basins 9-10 **Start Date:** 5/15/2006 **End Date:** 5/24/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
36	18	38	4	2.0/1.0	4	SAA		=	0	1430
			2					=		
			2					=		
			3					=		
								=		
38	19	40	4	2.0/2.0	13	SAA		=	0	1445
			6					=		
			7					=		
			8					=		
							40'	=		
40	20	42	WOH(1')	2.0/1.0	2+	White(N9) silt sized particles, consolidated			0	1600
			2			to cemented matrix, wet.				
			4							
42	21	44	5	2.0/2.0	13	SAA, cemented			0	1610
			6							
			7							
			3							
44	22	46	1	2.0/2.0	1	White(N9) silt, consolidated.			6.3	1625
			1 (1')							
			1							
46	23	48	1	2.0/2.0	1	SAA			8.4	1135
			1 (1')							
			1							
							Solvay Waste			
48	24	50	1 (1')	2.0/2.0	1	SAA			6.5	1650
			1 (1')							
										5/16/06
50	25	52	WOR(2')	2.0/1.5	WOR	SAA, consolidated			3	0940
52	26	54	1	2.0/2.0	1	SAA			2.6	1000
			1(1')							
			1							

Notes: Well set at SB915-SB-42 boring location - boring completed to 133.1'
Well set @ 40', screen 40'-30' sand 40'-28', seal 28'-26', grout to grade

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-43S
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 1 **of** 3 **Location:** Settling Basin 9-10 **Start Date:** 6/14/2006 **End Date:** 6/15/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr.		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
0	1	2	2	2.0/1.5	31	light olive gray (5Y 6/1) cinders, waste,			0	1310
			14			and brick frags, f. gravel size, damp,				
			17			dense				
			18							
2	2	4	8	2.0/0.3	8	SAA, loose			0	1315
			4				Fill			
			4							
			4							
4	3	6	3	2.0/0.2	4	SAA, loose			0	1320
			3							
			1							
			1							
6	4	8	3	2.0/1.0	3	med. Dark gray (N4) sand and silt-size in			0	1325
			1			cemented matrix, damp, loose				
			2							
			3							
8	5	10	3	2.0/1.75	4	banding of white(N9), med dark gray(N4)and			0	1330
			2			med light gray (N6) silt sized particles lightly				
			2			cemented consolidated@9'-9.2' sand and				
			2			silt damp, soft				
10	6	12	1	2.0/1.75	1	SAA			0	1510
			WOH				Solvay			
			1				Waste			
			1							
12	7	14	1	2.0/2.0	4	SAA			0	1515
			2							
			2							
			WOH							
14	8	16	WOH	2.0/2.0	WOH	SAA			1.9	1535
			1							
16	9	18	1	2.0/2.0	4	SAA			0	1540
			2							
			2							
			2							

Notes: See boring log for SB915-SB-43 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-43S
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 2 **of** 3 **Location:** Settling Basin 9-10 **Start Date:** 6/14/2006 **End Date:** 6/15/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr.		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
18	10	20	WOH	2.0/1.0	WOH	SAA			0	
			1							
20	11	22	4	2.0/2.0	3	SAA			1.8	1550
			2							
			1							
			4							
22	12	24	WOH	2.0/2.0	2	SAA			0	1605
			1							
			1							
			4							
24	13	26	2	2.0/2.0	3	SAA	Solvay Waste		2.2	1615
			2							
			1							
			1							
26	14	28	6	2.0/1.0	8	SAA, cemented banding			0	1620
			4							
			4							
			3							
										6/15/06
28	15	30	WOH	2.0/1.0	WOH	cemented piece in shoe			1.3	800
			1							
30	16	32	3	2.0/2.0	6	SAA (24'-26')			1.8	810
			2							
			4							
			3				31'			
32	17	34	WOH	2.0/2.0	WOH	SAA			2.8	830
			2							
							33'			
34	18	36	2	2.0/2.0	4	SAA			1.3	840
			2							
			2				35'	=		
			4					=		
								=		
								=		
								=		

Notes:

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-MW-43S
Client: Honeywell **Proj. Loc:** Settling Basins 9 - 15 Geddes/Camillus, NY **File No.:** 1163/36327	**Sampler: 2" Spoon** **Automatic Hammer** **Drop: 30"**	**Page** 3 **of** 3 **Location:** Settling Basin 9-10 **Start Date:** 6/14/2006 **End Date:** 6/15/2006
Boring Company: Parratt-Wolff Inc. **Foreman:** Ian Grassie **Drill Rig:** CME 850 **Geologist:** Robert Trent Jr.		**Screen** = **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Time
36	19	38	1	2.0/2.0	WOH	SAA		=	3.5	845
			WOH					=		
			WOH					=		
			6					=		
								=		
38	20	40	WOH	2.0/1.0	2	SAA		=	1.8	930
			1					=		
			1					=		
			1					=		
								=		
40	21	42	WOH	2.0/1.0	WOH	SAA, no med dark gray(N4) bands		=	1.5	940
			1					=		
								=		
								=		
								=		
42	22	44	WOH	2.0/2.0	3	white (N9) silt sized particles in		=	7.9	1005
			1			consolidated matrix, wet		=		
			2					=		
			4					=		
							Solvay	=		
44	23	46	WOH	2.0/2.0	WOH	SAA	Waste	=	21.2	1010
			1					=		
							45'	=		
46	24	48	5	2.0/2.0	3	SAA			14.8	1015
			1							
			2							
			4							
48	25	50	WOH	2.0/1.0	1	SAA			22.6	1100
			1							
			2							
50	26	52	WOH	2.0/2.0	9	SAA, cemented band @51'-51.5'			24.3	1110
			1							
			8							
			4							
52	27	54	WOH	2.0/1.1	WOH	SAA			13.7	1140
			1							

Notes: Well set at SB915-SB-43 boring location - boring completed to 80'
Well set @ 45', screen 45'-35' sand 45'-33', seal 33'-31', grout to grade

O'BRIEN & GERE ENGINEERS, INC.

SOIL BORING LOG

REPORT OF BORING SB-915-MW-50S

Client: Honeywell
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY
File No.: 1163/36327

Sampler: 2" Split Spoon
Automatic Hammer
Drop: 30"

Page 1 of 2
Location: Settling Basin 11
Start Date: 4/24/2006
End Date: 5/3/2006

Boring Company: Parratt-Wolff
Foreman: Ian Grassie
Drill Rig: CME 850
OBG Geologist: Robert Trent Jr

Screen = **Grout**
Riser **Sand Pack**
Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
0	1	2	1	2/8"	7	Moderate Yellowish Brown(10YR5/4)	Fill			
			3			SILT and roots with red brick fragments,			0.0	1300
			4			moist to dry, loose				
			5							
2	2	4	1	2/8"	3	2" Red brick frags, .5' White(9N9) Med	2'			
			2			Light Gray(6N6) and Med Dark Gray			0.0	1305
			1			(4N4) banding of SILT sized particles in	Solvay			
			1			consolidated matrix, moist, soft	Waste			
4	3	6	5	2/1'	2	White(9N9) Medium Light Gray(6N6) and				
			1			Medium Dark Gray(4N4) banding of SILT			0.0	1315
			1			sized particles in a consolidated matrix,				
			1			wet soft				
6	4	8	3	2/2'	3	Same as Last, lightly cemented to			0.0	1320
			1			cemented wet, soft				
			2							
			4							
8	5	10	1	2/2'	3	White(9N9) Medium Light Gray(6N6) and			0.0	1530
			2			Medium Dark Gray(4N4) banding of SILT				
			1			and sand sized particles in a consolidated				
			1			matrix, wet, soft				
10	6	12	1	2/2'	2	Same as Last, consolidated matrix, wet			0.2	1535
			1			very soft				
			1							
			1							
12	7	14	4	2/.5'	3	Same as Last			0.3	1545
			2							
			1							
			4							
14	8	16	wh/1'	2/2'	1	Same as Last			0.0	1615
			1							
			1							
16	9	18	1	2/2'	3	Same as Last			0.0	1625
			2							
			1							
			1							
18	10	20	1	2/2'	4	Same as last, consolidated to lightly			0.0	1645
			2			cemented matrix, wet, soft	Solvay			
			2				Waste			
			1							
20	11	22	wr	2/2'	1	Same as Last, consolidated to pastelike,			0.8	4/25/06
			wh			wet very soft				830
			1				21'			
			1							
22	12	24	2	2/2'	3	Same as Last			10.0	835
			1							
			2							
			3				23'			

Notes: See boring log for SB915-SB-50 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-MW-50S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 2 of 2
		Location: Settling Basin 11
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	
		Start Date: 4/24/2006
File No.: 1163/36327	**Drop: 30"**	**End Date:** 5/3/2006
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Ian Grassie		**Riser** **Sand Pack**
Drill Rig: CME 850		**Bentonite**
OBG Geologist: Robert Trent Jr		

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
24	13	26	wh/1.5'	2/2'	wh	White(9N9) Medium Light Gray(6N6) and				
			1			Medium Dark Gray(4N4) banding of SILT			1.2	840
						sized particles in a consolidated matrix,	25'	=		
						wet, very soft		=		
								=		
26	14	28	1	2/2'	2	Same as Last	Solvay	=	0.0	850
			1				Waste	=		
			1					=		
			1					=		
28	15	30	wh/1'	2/1'	2	Same as Last, cemented band in shoe,		=	0.0	900
			2			wet very soft to soft		=		
								=		
			4					=		
30	16	32	2	2/2'	4	Same as Last, lightly cemented to		=	0.0	910
			2			cemented wet, soft		=		
			2					=		
			5					=		
32	17	34	4	2/1'	2	Same as Last, lightly cemented to		=	0.0	930
			1			consolidated, wet, soft		=		
			1					=		
			3					=		
34	18	36	wr	2/2'	2	Same as Last, consolidated, wet, soft		=	0.0	940
			1					=		
			1				35'	=		
			1							
36	19	38	1	2/2'	4	Same as Last, Lightly cemented to			0.0	950
			2			cemented, wet, soft				
			2							
			1							
38	20	40	1	2/2'	2	Same as Last, consolidated, wet, soft			0.0	1010
			1							
			1							
			1							
40	21	42	wh/1'	2/2'	1	Tranisition to White(9N9) SILT sized			0.0	1100
			1			particlesin a lightly cemented matrix, wet,				
			2			soft				
42	22	44	1	2/2'	2	Same as Last			0.0	1130
			1							
			1							
			1							
44	23	46	1	2/2'	3	Same as Last				
			2				Solvay		0.0	1140
			1				Waste			
			1							
46	24	48	3	2/2'	3	Same as Last			0.0	1150
			2							
			1							
			1							

Notes: Well set at SB915-SB-50 boring location - boring completed to 186'
Well set @ 35', screen 35'-25' sand 35'-23', seal 23'-21', grout to grade

O'BRIEN & GERE ENGINEERS, INC.

SOIL BORING LOG

REPORT OF BORING SB915-MW-51S

Client: Honeywell
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY
File No.: 1163/36327

Sampler: 2" Split Spoon
Automatic Hammer
Drop: 30"

Page 1 of 2
Location: Settling Basin 11
Start Date: 4/12/2006
End Date: 4/13/2006

Boring Company: Parratt-Wolff
Foreman: Ian Grassie
Drill Rig: CME 850
OBG Geologist: Robert Trent Jr

Screen = \ **Grout**
Riser **Sand Pack**
Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
0	1	2	1	2/.5'	3	Dark Yellowish Brown(10YR4/2) SILT clay with roots, damp, soft	Silt	\	0.0	1330
			2					\		
			1					\		
			1					\		
2	2	4	1	2/1'	4	.5'of Grayish Orange(10YR7/4) SILT and sand sized particles in a pastelike matrix, wet, at 3.5-3.7' Light Olive Gray(5Y6/1) f/m sand and silt withshell fragments, then Dark Yellowish Brown(10YR4/2) silt and f/m sand, wet to moist, soft	Solvay waste	\	0.0	1335
			2					\		
			2				Marl	\		
			2				Silt	\		
								\		
								\		
4	3	6	wh/1.5'	2/1.5'	wh	Medium Light Gray(6N6) and Medium Dark Gray(4N4) banding of SILT and sand sized particles in a consolidated matrix, moist, very soft	Solvay Waste	\	0.0	1340
			1					\		
								\		
								\		
6	4	8	wh	2/2'	2	Same as Last		\	0.0	1345
			1					\		
			1					\		
			1					\		
8	5	10	2	2/1'	6	Same as Last, transition to White(9N9) silt and sand sized particles in a consolidated matrix, moist, firm		\	0.0	1355
			4					\		
			2					\		
			2					\		
10	T-1	12	na	2/2'	na	Shelby Tube Collected		\	na	1505
								\		
12	6	14	1/1'	2/2'	1	Banding of White(9N9) and Medium Light Gray (6N6) and Medium Dark Gray(4N4) SILT and sand sized particles in a consolidated matrix, wet, very soft		\	0.0	1515
			1					\		
			1					\		
								\		
								\		
14	7	16	wh/1.5'	2/1'	wh	Same as Last, wet		\	0.0	1525
			1					\		
								\		
								\		
16	8	18	1	2/1'	4	Same as Last, soft		\	0.0	1530
			3					\		
			1					\		
			1					\		
18	9	20	1/1'	2/2'	2	Same as Last, cemented matrix, moist, very soft		\	0.0	1605
			2					\		
							Solvay	\		
			6				Waste	\		
20	10	22	wh	2/1'	6	Banding of White(9N9) and Medium Light Gray (6N6) and Medium Dark Gray(4N4) SILT and sand sized particles in a cemented matrix, moist, firm		\	0.0	1615
			2					\		
			4					\		
			6				21'			
22	11	24	3	2/2'	7	Same as Last, increased sand sized particles moist, firm			0.0	1620
			4							
			3				23'			
			5							

See boring log for SB915-SB-51 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-SB-51S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 2 of 2
		Location: Settling Basin 11
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	
		Start Date: 4/12/2006
File No.: 1163/36327	**Drop: 30"**	**End Date:** 4/13/2006

Boring Company: Parratt-Wolff
Foreman: Ian Grassie
Drill Rig: CME 850
OBG Geologist: Robert Trent Jr

Screen = **Grout**
Riser **Sand Pack**
Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	PID (ppm)	Field Testing Date/ Time
24	12	26	1	2/2'	2	Banding of White(9N9) and Medium Light Gray (6N6) and Medium Dark Gray(4N4) SILT and sand sized particles in a consolidated matrix, moist, very soft				4/13/2006
			1						0.0	745
			1				25'	=		
			2					=		
								=		
26	13	28	3	2/2'	9	Same as Last, lightly cemented to cemented		=	0.0	800
			3					=		
			6				Solvay	=		
			7				Waste	=		
28	14	30	2	2/2'	5	Same as Last, moist, firm		=	0.1	815
			3					=		
			2					=		
			2					=		
30	15	32	6	2/2'	7	Same as Last, moist, firm		=	0.2	825
			3					=		
			4					=		
			4					=		
32	16	34	3	2/2'	8	Same as Last, moist, firm		=	0.0	835
			4					=		
			4					=		
			5					=		
34	17	36	2	2/2'	5	Same as Last, moist, firm		=	0.0	845
			2					=		
			3				35'	=		
			2							
36	18	38	3	2/2'	9	Same as Last, moist, firm			0.0	850
			4							
			5							
			4							
38	19	40	2	2/2'	4	White(9N9) SILT sized particles in a consolidated matrix, moist, soft			0.0	910
			2							
			2							
			2							
40	20	42	wr/2'	2/1.75'	wr	Same as Last, moist, very soft			0.0	925
42	21	44	1	2/2'	4	Same as Last, moist, soft			0.0	940
			2							
			2							
			2							
44	22	46	wr	2/2'	3	Same as Last, moist, soft			1.0	945
			1							
			2							
			1				Solvay			
46	23	48	1	2/1.5'	3	Same as Last, moist, soft	Waste		4.3	955
			1							
			2							
			1							

Well set at SB915-SB-51 boring location - boring completed to 63.5'
Well set @ 45', screen 45'-35' sand 45'-33', seal 33'-31', grout to grade
Well set @ 35', screen 35'-25' sand 35'-23', seal 23'-21', grout to grade

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-53D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 1 of 5
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	**Location:** Settling Basin 11
File No.: 1163/36327	**Drop: 30"**	**Start Date:** 3/30/2006 **End Date:** 4/11/2006
Boring Company: Parratt-Wolff **Foreman:** Ian Grassie **Drill Rig:** CME 850 **OBG Geologist:** Robert Trent Jr.		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
0	1	2	1	2/1'	2	Dark Yellowish Brown(10YR4/2) SILT and organics (roots and vegitation) damp, very loose	Silt	\ \	0.0	1050
			1					\ \		
			1					\ \		
			1					\ \		
2	2	4	1	2/1'	4	Light Gray(7N7) SILT sized particles in a consolidated matrix, moist, soft	Solvay Waste	\ \	0.0	1055
			3					\ \		
			1					\ \		
			2					\ \		
4	3	6	1	2/2'	4	Medium Light Gray(6N6) and White(9N9) banding of SILT sized particles, trace sand sized particles in a consolidated matrix, last 1' Medium light gray and Dark Gray(3N3) same as above, moist, soft		\ \	0.0	1105
			1					\ \		
			3					\ \		
			3					\ \		
								\ \		
								\ \		
6	4	8	3	2/2'	7	Same as Above, firm, moist		\ \	0.0	1110
			3					\ \		
			4					\ \		
			4					\ \		
8	5	10	1	2/1.5'	4	White(9N9)and Medium Light Gray(6N6) banding of SILT sized particles in a consolidated matrix, moist, soft		\ \	0.0	1130
			2					\ \		
			2					\ \		
			3					\ \		
								\ \		
10	6	12	1	2/2'	<1	Same as Last, wet, very soft		\ \	0.0	1145
			1/1'					\ \		
			3					\ \		
								\ \		
12	7	14	2	2/2'	3	Same as Last, wet, soft		\ \	0.0	1150
			2					\ \		
			1					\ \		
			3					\ \		
14	8	16	4	2/2'	9	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in cemented matrix, moist, stiff		\ \	0.0	1205
			4					\ \		
			5					\ \		
			5					\ \		
16	9	18	3	2/2'	4	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in a pastelike matrix, wet, soft		\ \	0.0	1215
			2					\ \		
			2					\ \		
			3					\ \		
18	10	20	1	2/2'	4	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in cemented matrix, moist, soft		\ \	0.0	1330
			2					\ \		
			2					\ \		
			2					\ \		
20	11	22	wh/1'	2/1.5'	<1	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in pastelike matrix, moist to wet, very soft		\ \	0.0	1400
			1					\ \		
			1					\ \		
								\ \		
								\ \		

Notes: See boring log for SB915-SB-53 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-53D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 2 of 5
		Location: Settling Basin 11
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	
		Start Date: 3/30/2006
File No.: 1163/36327	**Drop: 30"**	**End Date:** 4/11/2006
Boring Company: Parratt-Wolff		**Screen** = **Grout**
Foreman: Ian Grassie		**Riser** **Sand Pack**
Drill Rig: CME 850		**Bentonite**
OBG Geologist: Robert Trent Jr.		

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
22	12	24	3	2/2'	3	White(9N9) and Medium Light Gray(6N6)		\ \		
			1			banding of silt sized particles in a		\ \	0.0	1410
			2			consolidated matrix, moist, soft	Solvay	\ \		
			3				Waste	\ \		
24	13	26	wh/1'	2/2'	<1	White(9N9) and Medium Light Gray(6N6)		\ \		
			1			banding of silt sized particles in a		\ \	0.0	1430
			2			consolidated matrix, moist, soft		\ \		
								\ \		
26	14	28	1	2/2'	<1	White(9N9) and Medium Light Gray(6N6)		\ \		
			1/1'			banding of silt sized particles in a		\ \	0.0	1440
			1			consolidated matrix, moist, soft last 1'		\ \		
						grading to white pastelike silt sized particles		\ \		
								\ \		
28	15	30	wh/2'	2/2'	<1	White(9N9) and Medium Light Gray(6N6)		\ \		
						banding of SILT sized particles in a		\ \	0.0	1500
						pastelike matrix, wet, very soft		\ \		
								\ \		
30	16	32	wh/2'	2/2'	<1	White(9N9) and Medium Light Gray(6N6)		\ \		
						banding of SILT sized particles in a		\ \	0.0	1515
						pastelike matrix, wet, very soft		\ \		
								\ \		
32	17	34	3	2/2'	3	White(9N9) and Medium Light Gray(6N6)		\ \		
			2			banding of SILT and sand sized particles in		\ \	0.0	1525
			1			a consolidated matrix, moist, soft		\ \		
			3					\ \		
34	18	36	1/1'	2/2'	2	White(9N9) and Medium Light Gray(6N6)		\ \		
			2			banding of SILT and sand sized particles in		\ \	0.7	1550
			3			a lightly cemented to cemented matrix		\ \		
						moist, soft to firm		\ \		
								\ \		
36	19	38	1	2/2'	3	White(9N9) and Medium Light Gray(6N6)		\ \		
			1			banding of SILT and sand sized particles in		\ \	5.5	1600
			2			a cemented matrix, moist, soft		\ \		
			1					\ \		
38	20	40	wh/2'	2/2'	<1	White(9N9) banding of SILT and sized		\ \		
						particles, in a consolidated matrix, moist,		\ \	2.9	1610
						very soft		\ \		
								\ \		
40	21	42	wh/2'	2/2'	<1	White(9N9) banding of SILT and sized		\ \		
						particles, in a consolidated matrix, moist,		\ \	8.4	1620
						very soft		\ \		
								\ \		
42	22	44	4	2/2'	11	White(9N9) banding of SILT and sized		\ \		
			5			particles, in a consolidated matrix, moist,		\ \	8.7	1630
			6			very soft		\ \		
			6					\ \		
44	T-1	46	na	2/0'	na	Shelby Tube Attempt		\ \	na	na
								\ \		
46	na	48	na	na	na	No Sample		\ \	na	na
								\ \		

Notes:

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-53D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 3 of 5
		Location: Settling Basin 11
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	
		Start Date: 3/30/2006
File No.: 1163/36327	**Drop: 30"**	**End Date:** 4/11/2006

Boring Company: Parratt-Wolff
Foreman: Ian Grassie
Drill Rig: CME 850
OBG Geologist: Robert Trent Jr.

Screen = \ **Grout**
Riser **Sand Pack**
Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
48	T-2	50	T-2	2/2'	na	Shelby Tube Collected			na	3/31/2006
										910
50	23	52	8	2/2'	7	White(9N9) SILT and sand sized particles	Solvay		14.7	915
			3			in a cemented matrix, moist, firm	Waste			
			4							
			4							
52	24	54	2	2/2'	6	White(9N9) SILT and sand sized particles			12.8	925
			5			in a cemented matrix, moist, firm				
			1							
			2							
54	25	56	wr/2'	2/2'	<1	White(9N9) SILT sized particles in a			11.8	1015
						pastelike matrix, wet, very soft				
56	26	58	wh/2'	2/2'	<1	Light Gray(5N5) SILT and sand sized				
						particles in a pastelike matrix, wet, very soft			14.4	1025
58	27	60	wr/2'	2/2'	<1	Light Gray(5N5) SILT and sand sized				
						particles in a pastelike matrix, wet, very soft			3.5	1100
60	28	62	wh/2'	2/2'	<1	Light Gray(5N5) SILT and sand sized				
						particles in a pastelike matrix, wet, very soft			10.3	1120
62	29	64	wh/1'	2/2'	7	White(9N9) SILT and sand sized particles				
			6			in a pastelike grading to a cemented matrix			2.2	1140
			5			wet to moist, very soft to stiff				
64	30	66	wr/2'	2/4"	<1	Poor Recovery, Same as Last			1.0	1220
66	31	68	wh/2'	2/2'	<1	White(9N9) SILT sized particles in a				
						consolidated matrix, moist, very soft			5.7	1240
68	32	70	wh/2'	2/2'	<1	Same as Last	Solvay		1.9	1300
							Waste			
70	33	72	wh/2'	2/2'	<1	Same as Last for 1.5'. Last .5' Grayish				
						Black(2N2) SILT and clay with organics	71.5'		0.0	1340
						(roots and vegitation) peat, moist, very soft	Peat			
72	34	74	5	2/2'	18	Grayish Black(2N2) SILT and clay with				
			7			organics (roots and vegitation) peat, moist,			0.0	1400
			11			hard				
			13							
74	35	76	6	2/2'	48	1.5' Same as Last. Next .5' Dark Yellowish				
			18			Brown(10YR4/2) SILT and clay transition to			0.0	1530
			30			f/m/c gravel and f/m/c sand some silt,	75.5'			
			21			moist, stiff to very hard	Silt			

Notes: Casing set at 76'.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-53D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 4 of 5
		Location: Settling Basin 11
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	
		Start Date: 3/30/2006
File No.: 1163/36327	**Drop: 30"**	**End Date:** 4/11/2006
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Ian Grassie		**Riser** **Sand Pack**
Drill Rig: CME 850		**Bentonite**
OBG Geologist: Robert Trent Jr.		

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Date/ Time
76	36	78	19	2/1'	41	Dark Yellowish Brown(10YR5/4) f/m/c	Gravel	\		\	Mud	Rotary
			18			GRAVEL and f/m/c sand, some silt, some		\		\	0.0	4/5/2006
			23			clay wet (drill water) very hard		\		\		1550
			26					\		\		
78	37	80	15	2/1.5'	36	Same as last grading to Pale		\		\		
			20			Brown(5YR5/2) in color, last 2" Pale Brown		\		\	0.0	1615
			16			silt and clay with f/m gravel and f/m/c sand,		\		\		
			19			damp, very hard		\		\		
80	38	82	23	2/.5'	57	Pale Brown(5YR5/2) f/m/c SAND and silt	Sand	\		\		4/6/2006
			28			and clay, with f/m/c gravel, gravel rounded		\		\	0.0	900
			29			to subrounded, moist, extreamly hard		\		\		
			24					\		\		
82	39	84	18	2/.5'	28	Same as Last		\		\	0.0	930
			17					\		\		
			11					\		\		
			10					\		\		
84	40	86	4	2/1.5'	18	Pale Brown(5YR5/2) SILT and clay, with	Silt	\		\		
			9			f/m sand, some vf/f gravel, little c gravel		\		\	0.0	1010
			9			moist, hard		\		\		
			10					\		\		
86	41	88	wh	2/1.5'	17	Pale Brown(5YR5/2) SILT and clay, with		\		\	0.0	1040
			9			f/m sand, some vf/f gravel, moist, hard		\		\		
			8					\		\		
			8					\		\		
88	42	90	wh/1'	2/4"	8+	Pale Brown(5YR5/2) f/m/c SAND and f	Sand	\		\	0.0	1105
			8			gravel some silt, wet, (sluff), loose		\		\		
								\		\		
			9					\		\		
90	43	92	6	2/1.5'	11	Pale Brown(5YR5/2) SILT and clay, with	Silt	\		\	0.0	1200
			5			f/m sand, some vf/f gravel, moist, hard		\		\		
			6					\		\		
			6					\		\		
92	44	94	4	2/1.5'	16	Same as Last, moist, hard		\		\	0.0	1230
			8					\		\		
			8					\		\		
			11					\		\		
94	45	96	8	2/1.5'	20	Same as Last, wet, hard		\		\	0.0	1330
			9					\		\		
			11					\		\		
			11					\		\		
96	46	98	10	2/1'	23	Same as Last, wet, hard		\		\	0.0	1355
			10					\		\		
			13					\		\		
			13					\		\		
98	47	100	11	2/1.5'	31	Same as Last f/m/c sand and f/m gravel		\		\	0.0	1430
			12			increasing with depth		\		\		
			19					\		\		
			22				Gravel	\		\		
								\		\		
								\		\		
								\		\		

Notes:

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-53D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 5 of 5
		Location: Settling Basin 11
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	
		Start Date: 3/30/2006
File No.: 1163/36327	**Drop: 30"**	**End Date:** 4/11/2006
Boring Company: Parratt-Wolff		**Screen** = **Grout**
Foreman: Ian Grassie		**Riser** **Sand Pack**
Drill Rig: CME 850		**Bentonite**
OBG Geologist: Robert Trent Jr.		

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
100	48	102	25	2/2'	71	Pale Brown(5YR5/2) vf/f GRAVEL, and m/c				
			33			sand, some f sand, little silt, trace clay, wet,	Gravel		0.0	1600
			38			very dense				
			35							
102	49	104	na	2/1.5'	na	Same as last			0.0	1640
104	50	106	34	2/2'	78	Same as last, wet, very dense			0.0	4/7/2006
			38				106'			840
			40							
			38							
106	w-1	108	na	na	na	Water sample collected 106.5-108.5'				1300
108	51	110	6	2/2'	50	Pale Brown(5YR5/2) vf/f GRAVEL and m/c	108'			
			14			sand, some c gravel, some f sand, little silt,			0.0	4/10/2006
			36			trace clay, wet, very dense				1000
			29							
110	52	112	28	2/2'	75	Same as Last, wet, very dense	110'	=	0.0	1020
			34					=		
			41					=		
			43					=		
112	53	114	35	2/2'	50+	Pale Brown(5YR5/2) f/m GRAVEL some c		=		
			38			gravel, some f/m/c sand, little silt, wet, very		=	0.0	1045
			50/4"			dense		=		
								=		
114	54	116	21	2/2'	49	Same as Last		=	0.0	1205
			24					=		
			25					=		
			24					=		
116	55	118	14	2/2'	46	Same as Last		=	0.0	1220
			19					=		
			27					=		
			24					=		
118	56	120	21	2/2'	59	Same as Last		=	0.0	1250
			28					=		
			31					=		
			30				120'	=		
120	57	122	50/2"	2"/0'	50+	No Recovery			na	na
122	58	124	50	1'/8"	50+	Spoon Refusal, Grayish Black(2N2) rock			0.0	1530
			50/2"			fragments				
124	59	126	50/4"	4"/4"	50+	Pale Brown(5YR5/2) SILT and clay with	Silt		0.0	1640
						f/m/c gravel, moist, very dense				
126	60	128	38	10"/10"	50+	Pale Brown(5YR5/2) CLAY, some silt,	Clay		0.0	4/11/2006
			50/4"			some f gravel, little c sand, moist,				1000
						extreamly hard	126'			
						EOB 126.9'				

Notes: Well set at SB915-SB-53 boring location - boring completed to 126.9'

Well set @ 126': 126-120' sump, 120-110' screen interval, sand 126-108', bentonite seal 108-106', grout 106' to grade

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-53I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 1 of 3
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	**Location:** Settling Basin 11
File No.: 1163/36327	**Drop: 30"**	**Start Date:** 3/30/2006 **End Date:** 4/11/2006
Boring Company: Parratt-Wolff **Foreman:** Ian Grassie **Drill Rig:** CME 850 **OBG Geologist:** Robert Trent Jr.		**Screen** = **Riser** \ **Grout** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
0	1	2	1	2/1'	2	Dark Yellowish Brown(10YR4/2) SILT and organics (roots and vegitation) damp, very loose	Silt	\ \	0.0	1050
			1					\ \		
			1					\ \		
			1					\ \		
2	2	4	1	2/1'	4	Light Gray(7N7) SILT sized particles in a consolidated matrix, moist, soft	Solvay Waste	\ \	0.0	1055
			3					\ \		
			1					\ \		
			2					\ \		
4	3	6	1	2/2'	4	Medium Light Gray(6N6) and White(9N9) banding of SILT sized particles, trace sand sized particles in a consolidated matrix, last 1' Medium light gray and Dark Gray(3N3) same as above, moist, soft		\ \	0.0	1105
			1					\ \		
			3					\ \		
			3					\ \		
								\ \		
								\ \		
6	4	8	3	2/2'	7	Same as Above, firm, moist		\ \	0.0	1110
			3					\ \		
			4					\ \		
			4					\ \		
8	5	10	1	2/1.5'	4	White(9N9)and Medium Light Gray(6N6) banding of SILT sized particles in a consolidated matrix, moist, soft		\ \	0.0	1130
			2					\ \		
			2					\ \		
			3					\ \		
								\ \		
10	6	12	1	2/2'	<1	Same as Last, wet, very soft		\ \	0.0	1145
			1/1'					\ \		
			3					\ \		
								\ \		
12	7	14	2	2/2'	3	Same as Last, wet, soft		\ \	0.0	1150
			2					\ \		
			1					\ \		
			3					\ \		
14	8	16	4	2/2'	9	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in cemented matrix, moist, stiff		\ \	0.0	1205
			4					\ \		
			5					\ \		
			5					\ \		
16	9	18	3	2/2'	4	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in a pastelike matrix, wet, soft		\ \	0.0	1215
			2					\ \		
			2					\ \		
			3					\ \		
18	10	20	1	2/2'	4	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in cemented matrix, moist, soft		\ \	0.0	1330
			2					\ \		
			2					\ \		
			2					\ \		
20	11	22	wh/1'	2/1.5'	<1	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in pastelike matrix, moist to wet, very soft		\ \	0.0	1400
			1					\ \		
			1					\ \		
								\ \		
								\ \		

Notes: See boring log for SB915-SB-53 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-53I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 2 of 3
		Location: Settling Basin 11
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	
		Start Date: 3/30/2006
File No.: 1163/36327	**Drop: 30"**	**End Date:** 4/11/2006
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Ian Grassie		**Riser** **Sand Pack**
Drill Rig: CME 850		**Bentonite**
OBG Geologist: Robert Trent Jr.		

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
22	12	24	3	2/2'	3	White(9N9) and Medium Light Gray(6N6)		\ \		
			1			banding of silt sized particles in a		\ \	0.0	1410
			2			consolidated matrix, moist, soft	Solvay	\ \		
			3				Waste	\ \		
24	13	26	wh/1'	2/2'	<1	White(9N9) and Medium Light Gray(6N6)		\ \		
			1			banding of silt sized particles in a		\ \	0.0	1430
			2			consolidated matrix, moist, soft		\ \		
								\ \		
26	14	28	1	2/2'	<1	White(9N9) and Medium Light Gray(6N6)		\ \		
			1/1'			banding of silt sized particles in a		\ \	0.0	1440
			1			consolidated matrix, moist, soft last 1'		\ \		
						grading to white pastelike silt sized		\ \		
								\ \		
28	15	30	wh/2'	2/2'	<1	White(9N9) and Medium Light Gray(6N6)		\ \		
						banding of SILT sized particles in a		\ \	0.0	1500
						pastelike matrix, wet, very soft		\ \		
								\ \		
30	16	32	wh/2'	2/2'	<1	White(9N9) and Medium Light Gray(6N6)		\ \		
						banding of SILT sized particles in a		\ \	0.0	1515
						pastelike matrix, wet, very soft		\ \		
								\ \		
32	17	34	3	2/2'	3	White(9N9) and Medium Light Gray(6N6)		\ \		
			2			banding of SILT and sand sized particles		\ \	0.0	1525
			1			in a consolidated matrix, moist, soft		\ \		
			3					\ \		
34	18	36	1/1'	2/2'	2	White(9N9) and Medium Light Gray(6N6)		\ \		
			2			banding of SILT and sand sized particles		\ \	0.7	1550
			3			in a lightly cemented to cemented matrix		\ \		
						moist, soft to firm		\ \		
								\ \		
36	19	38	1	2/2'	3	White(9N9) and Medium Light Gray(6N6)		\ \		
			1			banding of SILT and sand sized particles		\ \	5.5	1600
			2			in a cemented matrix, moist, soft		\ \		
			1					\ \		
38	20	40	wh/2'	2/2'	<1	White(9N9) banding of SILT and sized		\ \		
						particles, in a consolidated matrix, moist,		\ \	2.9	1610
						very soft		\ \		
								\ \		
40	21	42	wh/2'	2/2'	<1	White(9N9) banding of SILT and sized		\ \		
						particles, in a consolidated matrix, moist,		\ \	8.4	1620
						very soft		\ \		
								\ \		
42	22	44	4	2/2'	11	White(9N9) banding of SILT and sized		\ \		
			5			particles, in a consolidated matrix, moist,		\ \	8.7	1630
			6			very soft		\ \		
			6					\ \		
44	T-1	46	na	2/0'	na	Shelby Tube Attempt		\ \	na	na
								\ \		
46	na	48	na	na	na	No Sample		\ \	na	na
								\		

Notes:

O'BRIEN & GERE ENGINEERS, INC.

SOIL BORING LOG

REPORT OF BORING SB915-MW-53I

Client: Honeywell

Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY

File No.: 1163/36327

Sampler: 2" Split Spoon

Automatic Hammer

Drop: 30"

Page 3 of 3

Location: Settling Basin 11

Start Date: 3/30/2006

End Date: 4/11/2006

Boring Company: Parratt-Wolff

Foreman: Ian Grassie

Drill Rig: CME 850

OBG Geologist: Robert Trent Jr.

Screen = \ **Grout**

Riser **Sand Pack**

Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
48	T-2	50	T-2	2/2'	na	Shelby Tube Collected		\ \	na	3/31/2006 910
50	23	52	8	2/2'	7	White(9N9) SILT and sand sized particles	Solvay	\ \	14.7	915
			3			in a cemented matrix, moist, firm	Waste	\ \		
			4					\ \		
			4					\ \		
52	24	54	2	2/2'	6	White(9N9) SILT and sand sized particles		\ \	12.8	925
			5			in a cemented matrix, moist, firm		\ \		
			1					\ \		
			2					\ \		
54	25	56	wr/2'	2/2'	<1	White(9N9) SILT sized particles in a		\ \	11.8	1015
						pastelike matrix, wet, very soft		\ \		
								\ \		
								\ \		
56	26	58	wh/2'	2/2'	<1	Light Gray(5N5) SILT and sand sized		\ \		
						particles in a pastelike matrix, wet, very		\ \	14.4	1025
						soft		\ \		
							57.5'			
58	27	60	wr/2'	2/2'	<1	Light Gray(5N5) SILT and sand sized				
						particles in a pastelike matrix, wet, very			3.5	1100
						soft	59.5'			
60	28	62	wh/2'	2/2'	<1	Light Gray(5N5) SILT and sand sized				
						particles in a pastelike matrix, wet, very			10.3	1120
						soft				
							61.5'	=		
62	29	64	wh/1'	2/2'	7	White(9N9) SILT and sand sized particles		=		
			6			in a pastelike grading to a cemented		=	2.2	1140
			5			matrix wet to moist, very soft to stiff		=		
								=		
64	30	66	wr/2'	2/4"	<1	Poor Recovery, Same as Last		=	1.0	1220
								=		
								=		
								=		
66	31	68	wh/2'	2/2'	<1	White(9N9) SILT sized particles in a		=		
						consolidated matrix, moist, very soft		=	5.7	1240
								=		
								=		
68	32	70	wh/2'	2/2'	<1	Same as Last	Solvay	=	1.9	1300
							Waste	=		
								=		
								=		
70	33	72	wh/2'	2/2'	<1	Same as Last for 1.5'. Last .5' Grayish		=		
						Black(2N2) SILT and clay with organics		=	0.0	1340
						(roots and vegitation) peat, moist, very soft		=		
							71.5'	=		
72	34	74	5	2/2'	18	Grayish Black(2N2) SILT and clay with	Peat	71.5'		
			7			organics (roots and vegitation) peat,			0.0	1400
			11			moist, hard				
			13							
74	35	76	6	2/2'	48	1.5' Same as Last. Next .5' Dark				
			18			Yellowish Brown(10YR4/2) SILT and clay			0.0	1530
			30			transition to f/m/c gravel and f/m/c sand	75.5'			
			21			some silt, moist, stiff to very hard	Silt			

Notes: Casing set at 76'.

Well set at SB915-SB-53 boring location - boring completed to 126.9'

Well set @ 71.5': 71.5'-61.5' screen interval, sand 71.5'-59.5', bentonite seal 59.5'-57.5', grout to grade

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-53S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 1 of 2
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	**Location:** Settling Basin 11
File No.: 1163/36327	**Drop: 30"**	**Start Date:** 3/30/2006 **End Date:** 4/11/2006
Boring Company: Parratt-Wolff **Foreman:** Ian Grassie **Drill Rig:** CME 850 **OBG Geologist:** Robert Trent Jr.		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
0	1	2	1	2/1'	2	Dark Yellowish Brown(10YR4/2) SILT and organics (roots and vegitation) damp, very loose	Silt		0.0	1050
			1							
			1							
			1							
2	2	4	1	2/1'	4	Light Gray(7N7) SILT sized particles in a consolidated matrix, moist, soft	Solvay Waste		0.0	1055
			3							
			1							
			2							
4	3	6	1	2/2'	4	Medium Light Gray(6N6) and White(9N9) banding of SILT sized particles, trace sand sized particles in a consolidated matrix, last 1' Medium light gray and Dark Gray(3N3) same as above, moist, soft			0.0	1105
			1							
			3							
			3							
6	4	8	3	2/2'	7	Same as Above, firm, moist			0.0	1110
			3							
			4							
			4							
8	5	10	1	2/1.5'	4	White(9N9)and Medium Light Gray(6N6) banding of SILT sized particles in a consolidated matrix, moist, soft			0.0	1130
			2							
			2							
			3							
10	6	12	1	2/2'	<1	Same as Last, wet, very soft			0.0	1145
			1/1'							
			3							
12	7	14	2	2/2'	3	Same as Last, wet, soft			0.0	1150
			2							
			1							
			3							
14	8	16	4	2/2'	9	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in cemented matrix, moist, stiff			0.0	1205
			4							
			5							
			5							
16	9	18	3	2/2'	4	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in a pastelike matrix, wet, soft			0.0	1215
			2							
			2							
			3							
18	10	20	1	2/2'	4	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in cemented matrix, moist, soft			0.0	1330
			2							
			2							
			2							
20	11	22	wh/1'	2/1.5'	<1	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in pastelike matrix, moist to wet, very soft			0.0	1400
			1							
			1				21'			

Notes: See boring log for SB915-SB-53 for additional details.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-53S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page** 2 of 2
		Location: Settling Basin 11
Proj. Loc: Settling Basins 9-15 Geddes/Camillus, NY	**Automatic Hammer**	
		Start Date: 3/30/2006
File No.: 1163/36327	**Drop: 30"**	**End Date:** 4/11/2006
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Ian Grassie		**Riser** **Sand Pack**
Drill Rig: CME 850		**Bentonite**
OBG Geologist: Robert Trent Jr.		

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
22	12	24	3	2/2'	3	White(9N9) and Medium Light Gray(6N6) banding of silt sized particles in a consolidated matrix, moist, soft			0.0	1410
			1				23'			
			2							
			3							
24	13	26	wh/1'	2/2'	<1	White(9N9) and Medium Light Gray(6N6) banding of silt sized particles in a consolidated matrix, moist, soft			0.0	1430
			1							
			2				25'	=		
								=		
26	14	28	1	2/2'	<1	White(9N9) and Medium Light Gray(6N6) banding of silt sized particles in a consolidated matrix, moist, soft last 1' grading to white pastelike silt sized particles		=	0.0	1440
			1/1'					=		
			1					=		
								=		
								=		
28	15	30	wh/2'	2/2'	<1	White(9N9) and Medium Light Gray(6N6) banding of SILT sized particles in a pastelike matrix, wet, very soft		=	0.0	1500
								=		
								=		
								=		
30	16	32	wh/2'	2/2'	<1	White(9N9) and Medium Light Gray(6N6) banding of SILT sized particles in a pastelike matrix, wet, very soft		=		
							Solvay Waste	=	0.0	1515
								=		
								=		
32	17	34	3	2/2'	3	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in a consolidated matrix, moist, soft		=		
			2					=	0.0	1525
			1					=		
			3					=		
34	18	36	1/1'	2/2'	2	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in a lightly cemented to cemented matrix moist, soft to firm		=		
			2					=	0.7	1550
			3				35'	=		
36	19	38	1	2/2'	3	White(9N9) and Medium Light Gray(6N6) banding of SILT and sand sized particles in a cemented matrix, moist, soft				
			1						5.5	1600
			2							
			1							
38	20	40	wh/2'	2/2'	<1	White(9N9) banding of SILT and sized particles, in a consolidated matrix, moist, very soft				
									2.9	1610
40	21	42	wh/2'	2/2'	<1	White(9N9) banding of SILT and sized particles, in a consolidated matrix, moist, very soft				
									8.4	1620
42	22	44	4	2/2'	11	White(9N9) banding of SILT and sized particles, in a consolidated matrix, moist, very soft				
			5						8.7	1630
			6							
			6							
44	T-1	46	na	2/0'	na	Shelby Tube Attempt			na	na
46	na	48	na	na	na	No Sample			na	na

Notes: Well set at SB915-SB-53 boring location - boring completed to 126.9'

Well set @ 35': 35'-25' screen interval, sand 35'-23', bentonite seal 23'-21', grout to grade

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-59S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page 1 of 1**
Proj. Loc: Camillus, NY	**Hammer: Automatic**	**Location:**
File No.: 1163\36327	**Fall: 30"**	**Start Date: 10/9/2006** **End Date: 10/9/2006**
Boring Company: Parratt-Wolff **Foreman: Robert Baldose** **OBG Geologist: Robert Trent Jr.**		**Screen = \ Grout** **Riser Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	8-9-16-14	2/1.0	25	.75' of f/m GRAVEL and f/m/c sand with Back (N1) cinders, last 2" Moderate Yellowish Brown(10YR5/4) clay, some silt, some rounded f/m gravel, with many/distinct/ coarse patches of Greenish Gray(5G6/1) silt, dry, hard	Fill		0	1000
2	2	4	5-8-14-24	2/1.0	22	Moderate Yellowish Brown(10YR5/4) CLAY and silt, with few/fine/faint patches of Pale Yellowish Brown(10YR6/2) silt and little fine gravel,some fine sand, trace Black(N1) m sand sized particles throughout, damp, hard	Silt and Clay		0	1005
4	3	6	8-12-11-18	2/1.5	23	Greenish Gray(5GY6/1) SILT and clay with f/m gravel (angular) some f/m/c sand, dry, hard			0	1015
6	4	8	16-33-50/.4	16"/16"	83+	SAA, with c gravel, dry, extreamly hard			0	1030
8	5	10	21-50/.3	9"/9"	50+	SAA, with c gravel, dry, extreamly hard			0	1045
10	6	12	19-50/.4	10"/10"	50+	SAA, with c gravel, dry, extreamly hard			0	1055
12	7	14	8-50/.4	10"/10"	50+	Light Olive Gray(5Y6/1) f/m/c GRAVEL with silt and f/m/c sand, little clay, wet, very dense	Gravel		0	1110
14	8	16	9-9-10-25	2/1.75	19	Dark Gray(N3) f/m/c GRAVEL (sub angular to sub rounded) with c sand, little f/m sand, trace silt, saturated, medium dense			0	1120
16	9	18	46-27-50-50/.2	20"/20"	77	Light Olive Gray(5Y6/1) f/m/c SAND and f/m gravel, with silt, saturated, extreamly dense	Sand and Gravel		0	1125
18	10	20	7-44-50/.4	16"/16"	94+	Top 2" m/c SAND, well sorted little f sand, last 14" Light Olive Gray(5Y6/1) f/m/c GRAVEL and m/c sand, some silt, wet, extreamly dense			0	1140
						Well installation: Screen 20'-10', Sand 20' to 18' Bentonite seal 18' to15', grout to grade.				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-60
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page 1 of 1**
Proj. Loc: Camillus, NY	**Hammer: 140 lbs**	**Location:**
File No.: 1163\36327	**Fall: 30"**	**Start Date:** 10/9/2006 **End Date:** 10/9/2006
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Robert Baldose		**Riser** **Sand Pack**
OBG Geologist: Robert Trent Jr./Joe Gallo		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	2-6-6-8	2/1.75	12	Black(N1) f/m/c sand sized particles of CINDERS and f gravel, dry to damp, medium dense	Fill			\	0	1400
2	2	4	8-24-16-34	2/1.25	40	SAA with White(N9) silt and sand sized particles in a cemented matrix, moist to slightly wet, dense				\	0	1405
4	3	6	16-15-9-8	2/1.75	24	SAA, medium dense				\	0	1420
6	4	8	5-13-7-7	2/1.5	20	Light Brownish Gray(5YR6/1) SILT and clay, with many/distinct/prominent patches of Black(N1) peat, peaty odor, moist, hard	Silt and Clay	6'			0	1425
8	5	10	6-9-14-9	2/1.25	23	Light Olive Gray(5Y6/1) SILT and clay with f/m gravel, matrix supported, gravel is sub angular, damp, hard		10'			0	1435
10	6	12	8-4-3-5	2/1.5	7	Olive Gray(5Y4/1) SILT, little f sand, trace clay, trace organic fibers, damp, loose			=		0	1445
12	7	14	11-8-5-6	2/1.75	13	Olive Gray(5Y4/1) SILT, some f sand, some shell frags, little organic fibers, damp, medium dense		12'	=		0	1450
14	8	16	2-2-3-4	2/2.0	5	Olive Gray(5Y4/1) f SAND and silt with shell fragments, some wood fibers, wet, last .5' White(N9) shell frags c sand to f gravel sized, loose	Silty Marl	14'	=		0	1500
16	9	18	woh-1-woh-2	2/1.0	1	White(N9) SHELLS, saturated, last4" Brownish Gray(5YR4/1) f sand and silt with shell fragments, wet, very loose	Shells	16'	=		0	1505
18	10	20	5-4-6-5	2/.5	10	Light Olive Gray(5Y6/1) to White(N9) f/m/c SAND and f gravel, sub rounded to rounded, saturated, medium dense	Sandy Marl	20'	=		0	1510
20	11	22	5-11-8-11	2/1.5	19	Dark Yellowish Gray(no#) f/m GRAVEL and f/m/c sand, saturated, medium dense	Gravel				0	1515
22	12	24	7-7-17-21	2/1.0	24	SAA					0	1525
24	13	26	6-6-6-3	2/1.5	12	Light Olive Brown(5Y5/6) f/m/c GRAVEL and f/m/c sand, some silt, some clay, wet, medium dense					0	1600
26	14	28	4-7-5-9	2/1.0	12	SAA					0	1610
28	15	30	5-5-9-9	2/1.25	14	SAA, silt and clay matrix increasing to matrix supported, moist					0	1620
						B.O.B 30'						
						Well installed at 20', Screen 20'-10', Sand 20' to 8', bentonite seal 8'-6', grout to grade						

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-70D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location:** SB 9-15
Proj. Loc:	**Hammer: 140-lb drop**	**Start Date:** 12/18/2006
File No.: 1163/40012	**Fall: 30"**	**End Date:** 12/19/2006
Boring Company: Parrat-Wolff Inc.		**Screen** = \ **Grout**
Foreman: Joe Percy		**Riser** **Sand Pack**
OBG Geologist: Nate Kranes		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Sp.Cond. ms/cm
0	1	2	4-5	0.8/2.0	14	Black cinders and cf sand, moist	Fill		0.0	
			9-8							
2	2	4	13-12	0.0/2.0	24	No recovery				
			12-13							
4	3	6	4-5	2.0/2.0	9	Pale Yellowish Brown (10YR 6/2) wet, fine sand, trace silt, loose			0.0	
			4-6							
6	4	8	8-11	1.0/2.0	25	0.3-SAA, 0.2-Black (N1), 2" layer with cinders. 0.5'-Dry, yellowish orange, f. sand, orange staining in lamination-like layers	Fine Sand			
			14-10							
8	5	10	5-7	0.0/2.0	14	No recovery, wet spoon				
			7-11							
10	6	12	5-5	2.0/2.0	11	Pale yellowish brown (10YR 6/2), wet, medium dense, fine sand, laminated, single clay lamination at top				
			6-5							
12	7	14	6-7	1.8/2.0	15	SAA-bedded in 0.25' layers, saturated				
			8-9							
14	8	16	4-2	1.8/2.0	4	0.8-SAA, 1.0- (10YR 6/2), saturated, coarse to fine sand, trace fine gravel, loose	F/C Sand			
			2-8							
16	9	18	12-15	1.8/2.0	31	Pale yellowish brown, cf gravel, little cf sand, little silt	Sand & Gravel			
			16-22							
18	10	20	6-11	1.6/2.0	28	SAA, saturated, medium dense (Sp. Cond = 17.220).				17.220
			17-10							
20	11	22	1-9	1.6/2.0	27	SAA, saturated, medium dense				
			18-25							
22	12	24	26-23	2.0/2.0	44	SAA-matrix-supported, wet, dense, red-green fleks, mottled				
			21-21							
24	13	26	16-13	1.2/2.0	28	SAA- less matrix supported, saturated, medium dense				
			15-18							
26	14	28	17-13	2.0/2.0	30	SAA @ 22-24, wet, dense				
			17-19							
28	15	30	51-48	2.0/2.0	79	1.2-SAA, 0.8-Dark gray, gravel, little cmf sand, trace silt, saturated.	Sand & Gravel			
			31-24							
30	16	32	40-28	1.2/2.0	56	SAA				
			28-18							
32	17	34	13-22	1.3/2.0	30	SAA (Sp Cond. = 23.000)				23.000
			16-16							

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-70D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location:** SB 9-15
Proj. Loc:	**Hammer: 140-lb drop**	**Start Date:** 12/18/2006
File No.: 1163/40012	**Fall: 30"**	**End Date:** 12/19/2006
Boring Company: Parrat-Wolff Inc.		**Screen** = \ **Grout**
Foreman: Joe Percy		**Riser** **Sand Pack**
OBG Geologist: Nate Kranes		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Sp.Cond. ms/cm
34	18	36	31-16	1.5/2.0	34	SAA				
			18-19							
36	19	38	28-29	0.6/2.0	49	SAA-gravel and cf sand, saturated, dense				
			20-19							
38	20	40	23-23	0.8/2.0	39	SAA				
			16-20							
40	21	42	30-30	1.5/2.0	54	Dark gray, mf gravel and cf sand, little silt, wet, very dense, matrix-supported sand and gravel	Matrix Supported			
			24-48							
42	22	44	18-18	1.0/2.0	39	SAA-matrix supported sand and gravel, wet to saturated				
			21-28							
44	23	46	38-25	0.9/2.0	46	SAA-wet, dense				
			21-17							
46	24	48	30-17	0.0/2.0	34	No sample				
			17-13							
48	25	50	17-17	0.7/2.0	29	SAA-matrix supported sand and gravel				
			12-17							
50	26	52	14-15	2.0/2.0	30	Medium gray (N6), cf sand and mf gravel, little silt, slightly matrix supported				
			15-13							
52	27	54	13-12	1.3/2.0	25	Medium gray (N6) with fleks of red and green, cf sand some mf gravel, little silt, slightly matrix supported, wet, saturated, medium dense				
			13-17							
54	28	56	11-20	2.0/2.0	42	SAA (Sp.Cond = 60.200)		=		60.200
			22-22					=		
								=		
								=		
								=		
56	29	58	15-17	1.5/2.0	>67	SAA, red and green fleks in silty matrix (supported), wet-saturated, medium dense.		=		
			50/0.4					=		
								=		
58	30	60	20-25	1.8/2.0	47	SAA wet to saturated, dense		=		
			22-25					=		
								=		
60	31	62	26-27	1.2/2.0	54	SAA		=		
			27-27					=		
								=		
62	32	64	29-26	1.4/2.0	48	Till-like SAA, heavily matrix-supported sand and gravel, moist to wet, very dense	Till	=		
			22-24							
64	33	66	18-20	0.8/2.0	34	SAA moist, dense				
			14-14							
						BOB - 66'				
						spoon sample to 63'				
						Monitoring Well screen set at 63-53'				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-70S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page 1 of 1**
Proj. Loc: Camillus, NY	**Hammer: 140 lbs**	**Location:**
File No.: 1163\36327	**Fall: 30"**	**Start Date:** 10/13/2006 **End Date:** 10/13/2006
Boring Company: Parratt-Wolff **Foreman: Robert Baldose** **OBG Geologist: Joe Gallo**		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	5-7-9-10	2/1.6	16	Black(N1) CINDERS	Fill		-	925
2	2	4	13-16-16 17	2/1.5	32	Top 7" SAA, Bottom 9" Moderate Yellowish Brown(10YR5/4) vf SAND and silt, little clay, homogeneous, dry, dense	Silt		-	928
4	3	6	3-5-8-9	2/1.5	11	SAA			-	936
6	4	8	9-11-11-15	2/1.8	22	SAA, medium dense			-	946
8	5	10	6-6-6-9	2/1.8	12	SAA, damp at 9'			-	954
10	6	12	5-4-6-8	2/1.8	10	SAA,			-	1000
12	7	14	4-6-8-9	2/1.8	14	SAA			-	1003
14	8	16	3-4-2-4	2/1.4	6	Top 6" SAA, Saturated, Next 4" c/m sand, some c/m gravel, Next 6" silt and clay, little c/m gravel, all Moderate Yellowish brown(10YR5/4)	Sand		-	1013
16	9	18	8-10-11-12	2/1.4	21	Top 6" c/m SAND, some f/m gravel, saturated, Last 1' Pale Yellowish Brown(10YR6/2) c/m/f gravel and c/m sand, little silt, saturated, medium dense	Gravel		-	1015
18	10	20	9-8-14-17	2/1.3	22	SAA			-	1026
20	11	22	10-15-16 17	2/1.1	31	SAA, slightly higher silt and clay content			-	1034
22	12	24	11-20-20 20	2/1.5	40	Top 6" SAA, Last 1' Light Olive Brown(5Y5/6) and Moderate Reddish Brown(10R4/6) c/m GRAVEL and c/m sand some silt, dense			-	1040
24	13	26	16-16-22 24	2/1.4	38	SAA, more f sand with depth, more cohesive, matrix binding in areas, dense	Gravel increasing Matrix		-	1047
						Well Set at 25': Screen 25' to 15', Sand 25' to 23', bentonite seal 23' to 20', grout to grade.				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-SB-73/MW-84D
Client: Honeywell	**Sampler: 2: Split Spoon**	**Location:**
Proj. Loc: Settling Basin 9-15 Geddes/Camillus, NY	**Hammer: Pneumatic**	**Start Date: 10/15/2008**
File No.: 1163/43068	**Fall: NA**	**End Date: 10/17/2008**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Mark Eaves		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Date/ Time
0	1	2	5-6-8-8	2.0/1.5	14	0-0.2' Soft, slightly moist, Brown SILT, some fine Sand, trace f/m gravel and vegetation. 0.2-2.0' Firm, slightly moist, Brown f/m/c GRAVEL supported by a Silt matrix, trace f/m Sand	Top Soil	\		\	0.0	1435
2	2	4	7-9-10-10	2.0/1.5	19	0-0-5' Same as Last. 0.5-1.5' Same as Last, dense, no Sand		\		\	0.0	1440
4	3	6	9-9-14-8	2.0/1.0	23	0-1.0' Dense, dry, Brown SILT and Fine SAND with f/m Gravel and f/m gravel size pieces of Solvay Waste. 2" of Solvay Waste at bottom of Spoon	Silt & Sand	\		\	0.0	1500
6	4	8	6-7-14-19	2.0/1.0	21	0-0.2' Same as Last, trace brick pieces 0.2-1.0' Very loose, dry, Brown, SILT and Fine SAND, few m/c Gravel		\		\	0.0	1520
8	5	10	18-20-19-14	2.0/1.0	39	0-0.2' Large angular Gravel pieces 0.2-1.0' Very loose, dry, Brown, SILT and Fine SAND, few m/c Gravel	Gravel	\		\	0.0	1545
10	6	12	6-12-16-16	2.0/1.5	28	0-1.5' Loose, dry, Brown f/m SAND, some Silt, few m/c gravel		\		\	0.0	1605
12	7	14	12-20-30-33	2.0/0.5	50	0-0.5' Same as Last, trace more Silt		\		\	0.0	1610
14	8	16	1-2-8-8	2.0/1.0	10	0-1.0' Loose, wet, Gray m/c GRAVEL some m/c Sand, trace silt	Grave & Sand	\		\	0.0	1645
16	9	18	7-8-10-12	2.0/1.5	18	0-1.5' Same as Last, increasing amounts of Silt towards bottom		\		\	0.0	1655
18	10	20	9-8-9-8	2.0/1.5	17	0-1.5' Firm, wet, Brown, m/c SAND and SILT, some m/c Gravel		\		\	0.0	0840
20	11	22	8-14-10-12	2.0/1.0	23	0-1.0' Same as Last, trace large Gravel		\		\	0.0	0855
22	12	24	8-14-10-12	2.0/1.5	24	0-1.5' Same as Last		\		\	0.0	0920
24	13	26	8-7-7-6	2.0/1.0	14	0-1.0' Same as Last	Gravel & Sand	\		\	0.0	0930
26	14	28	6-7-7-10	2.0/1.0	14	0-1.0' Same as Last		\		\	0.0	0930
28	15	30	11-14-14-11	2.0/1.0	28	0-1.0' Firm, wet, Gray SILT and m/c SAND, few coarse Gravel, some iron staining on large gravel at 0.5'	Sand, Silt & Gravel	\		\	0.0	0945
30	16	32	10-11-16-15	2.0/1.0	27	0-1.0' Firm, wet, Gray m/c SAND and SILT, few m/c Gravel		\		\	0.0	0955
32	17	34	10-20-21-25	2.0/1.0	41	0-1.0' Same as Last, Dense		\		\	0.0	1000
34	18	36	8-10-25-34	2.0/1.0	35	0-1.0' Dense, wet, Gray SILT with m/c SAND, few m/c gravel throughout		\		\	0.0	1025
36	19	38	26-21-22-29	2.0/1.0	43	0-1.0' Same as Last		\		\	0.0	1030
38	20	40	14-16-15-27	2.0/1.5	31	0-1.5' Same as Last		\		\	0.0	1100
40	21	42	10-10-21-17	2.0/1.0	31	0-1.0' Same as Last		\		\	0.0	1115
42	22	44	12-20-17-24	2.0/1.0	37	0-1.0' Same as Last		\		\	0.0	1120
44	23	46	12-15-15-15	2.0/1.0	30	0-1.0' Same as Last		\		\	0.0	1155

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-SB-73/MW-84D
Client: Honeywell	**Sampler: 2: Split Spoon**	**Location:**
Proj. Loc: Settling Basin 9-15 Geddes/Camillus, NY	**Hammer: Pneumatic**	**Start Date: 10/15/2008**
File No.: 1163/43068	**Fall: NA**	**End Date: 10/17/2008**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Mark Eaves		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
46	24	48	14-22-18-20	2.0/1.0	38	0-1.0' Same as Last, less Silt		\ \	0.0	1200
48	25	50	14-10-14-14	2.0/1.0	24	0-1.0' Same as Last, more Silt			0.0	1215
50	26	52	8-15-19-14	2.0/1.0	34	0-1.0' Same as Last, slightly matrix supported			0.0	1400
52	27	54	8-15-15-14	2.0/1.0	30	0-1.0' Same as Last			0.0	1410
54	28	56	10-12-12-16	2.0/1.5	24	0-1.5' Medium Dense, wet, Gray f/m/c SAND, some m/c Gravel, trace silt		=	0.0	1420
56	29	58	12-12-12-16	2.0/1.5	24	0-1.5' Medium Dense to loose, wet, Gray m/c SAND with m/c Gravel, trace silt		=	0.0	1425
58	30	60	14-10-12-10	2.0/1.0	22	0-1.0' Medium Dense, wet, Gray f/m/c SAND with m/c Gravel, trace silt		=	0.0	1450
60	31	62	7-8-11-12	2.0/1.0	19	0-1.0' Same as Last		=	0.0	1500
62	32	64	25-29-50/0.3	1.3/1.3	>79	0-1.3' Loose, wet, Gray m/c GRAVEL, some m/c Sand, Large gravel piece at bottom		=	0.0	1515
64	33	66	59-50/0.3	0.7/0.7	>109	0-0.5' Very dense, moist, Gray SILT matrix supporting subangular f/m Gravel, some f/m sand. 0-.5'-0.7' Loose, wet, well rounded m/c Gravel, some f/m Sand, trace silt		=	0.0	1550
66	34	68	34-50/0.4	0.8/0.8	>84	0-0.5' Dense, wet, Brown f/m SAND, some m/c subrounded to angular Gravel, some silt. 0.5'-0.8' Medium dense, wet, Brown, f/m SAND, some Silt		=	0.0	1625
						Bottom of Boring: 68' Augers pulled to 64' bgs Screen: 54.5'-64.5' bgs Riser: 0-54.5' bgs Sand (#0): 52.5'-64.5' bgs Choke Sand (#00): 50.5'-52.5' bgs Bentonite: 49.5'-50.5' bgs Grout: 0-49.5' bgs				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-MW-84S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location:**
Proj. Loc: Settling Basin 9-15 Geddes/Camillus, NY	**Hammer: Pneumatic**	
File No.: 1163/43068	**Fall: NA**	**Start Date: 10/27/2008** **End Date: 10/28/2008**
Boring Company: Parratt-Wolff **Foreman: Mark Eaves** **OBG Geologist: Jonathan Bone**		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	5-6-8-8	2.0/1.5	14	0-0.2' Soft, slightly moist, Brown SILT, some fine Sand, trace f/m gravel and vegetation. 0.2-2.0' Firm, slightly moist, Brown f/m/c GRAVEL supported by a Silt matrix, trace f/m Sand	Top Soil	\		\	0.0	1435
2	2	4	7-9-10-10	2.0/1.5	19	0-0-5' Same as Last. 0.5-1.5' Same as Last, dense, no sand	Gravel & Silt	\		\	0.0	1440
4	3	6	9-9-14-8	2.0/1.0	23	0-1.0' Dense, dry, Brown SILT and Fine SAND with f/m Gravel and f/m gravel size pieces of Solvay Waste	Silt & Sand	\		\	0.0	1500
6	4	8	6-7-14-19	2.0/1.0	21	0-0.2' Same as Last, trace brick pieces. 0.2-1.0' Very loose, dry, Brown, SILT and Fine SAND, few m/c Gravel		\		\	0.0	1520
8	5	10	18-20-19-14	2.0/1.0	39	0-0.2' Large angular Gravel pieces. 0.2-1.0' Very loose, dry, Brown, SILT and Fine SAND, few m/c Gravel		\		\	0.0	1540
10	6	12	6-12-16-16	2.0/1.5	28	0-1.5' Loose, dry, Brown f/m SAND, some Silt, few m/c gravel		\		\	0.0	1605
12	7	14	12-20-30-33	2.0/0.5	50	0-0.5' Same as Last, trace more Silt					0.0	1610
14	8	16	1-2-8-8	2.0/1.0	10	0-1.0' Loose, wet, Gray m/c GRAVEL, some m/c Sand, trace silt	Gravel & Sand		=		0.0	1645
16	9	18	7-8-10-12	2.0/1.5	18	0-1.5' Same as Last, increasing amounts of Silt towards bottom			=		0.0	1655
18	10	20	9-8-9-8	2.0/1.5	17	0-1.5' Firm, wet, Brown, m/c SAND and SILT, some m/c Gravel			=		0.0	0855
20	11	22	8-14-10-12	2.0/1.0	23	0-1.0' Same as Last, trace large Gravel			=		0.0	0900
22	12	24	8-14-10-12	2.0/1.5	24	0-1.5' Same as Last			=		0.0	0920
24	13	25	8-7-7-6	2.0/1.0	14	0-1.0' Same as Last			=		0.0	0930

Bottom of Boring: 25' bgs
Screen: 15-25' bgs
Riser: 0-15' bgs
Sand:13-25' bgs
Bentonite: 12-13' bgs
Grout: 0-12' bgs
Secured with a Steel Stick up with locking Top

Sample descritptions taken from previous boring SB915-SB-73/MW-71D

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-MW-85D
Client: Honeywell	**Sampler: 2: Split Spoon**	**Location:**
Proj. Loc: Settling Basin 9-15 Geddes/Camillus, NY	**Hammer: Pneumatic**	**Start Date: 10/22/2008**
File No.: 1163/43068	**Fall: NA**	**End Date: 10/24/2008**
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Mark Eaves		**Riser** **Sand Pack**
OBG Geologist: Jonathan Bone		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Date/ Time
0	1	2	5-6-8-8	2.0/1.5	14	0-0.5' Very soft, slightyly moist, DarkBrown SILT and Fine SAND, trace vegation0.5'-1.5' Very soft, slightly moist, Brown Fine SAND and SILT	Silt & Sand	\		\		0845
2	2	4	10-11-18-19	2.0/1.0	29	0-1.0' Medium dense, slightly moist, Brown and Dark Brown SILT matrix, few finerounded Gravel, trace fine coal pieces Matrix supported		\		\		0850
4	3	6	3-4-4-3	2.0/1.5	8	0-1.5' Soft, moist, Brown Fine SAND, trace Silt	Fine Sand	\		\		0905
6	4	8	2-2-4-4	2.0/1.5	6	0-1.5' Same as Last, wet		\		\		0910
8	5	10	2-2-1-2	2.0/1.5	3	0-1.5' Same as Last		\		\		0930
10	6	12	1-1-2-1	2.0/1.5	3	0-1.5' Same as Last		\		\		0935
12	7	14	2-2-4-4	2.0/1.5	6	0-1.5' Same as Last		\		\		0940
14	8	16	4-8-11-14	2.0/1.5	19	0-1.0' Same as Last, increasing medium sand towards bottom. 1.0-1.5' Medium Dense, wet, Gray SILT with subrounded to angular f/m GRAVEL, few green Gravel pieces	Silt & Gravel	\		\		1005
16	9	18	10-16-20-20	2.0/1.0	36	0-1.0' Dense, wet, Gray and Grayish Green f/m/c SAND and SILT, few m/c angular Gravel	Sand , Silt & Gravel	\		\		1010
18	10	20	12-10-14-14	2.0/1.0	24	0-1.0' Dense, wet, Brown and Brownish Green m/c SAND with f/m/c angular Gravel, trace silt	Sand & Gravel	\		\		1030
20	11	22	9-12-11-22	2.0/1.0	23	0-1.0' Same as Last		\		\		1040
22	12	24	29-50/0.4	0.8/0.8	>79	0-0.8' Dense, saturated, Gray c/f angular GRAVEL some c/f Sand, trace silt	Gravel & Sand	\		\		1045
24	13	26	38-50/0.2	0.7/0.7	>88	0-0.7' Same as Last		\		\		1120
26	14	28	33-50/0.4	0.8/0.8	>83	0-0.8' Dense, wet, Gray m/c angular GRAVEL, some m/c Sand, trace silt		\		\		1145
28	15	30	24-18-24-33	2.0/1.5	42	0-1.5' Dense, wet, Gray f/m/c subangular to angular GRAVEL with m/c Sand, some silt		\		\		1300
30	16	32	20-18-20-20	2.0/1.5	38	0-1.5' Same as Last, red-green fleks		\		\		1320
32	17	34	32-38-50/0.4	1.4/1.0	>88	0-1.0' Same as Last		\		\		1330
34	18	36	14-16-14-18	2.0/1.0	30	0-1.0' Same as Last		\		\		1355
36	19	38	22-15-18-18	2.0/1.0	43	0-1.0' Same as Last, trace fleks of pyrite and m/c subrounded Sand		\		\		1400
38	20	40	10-12-10-14	2.0/1.0	22	0-1.0' Same as Last, no fleks of pyrite		\		\		1405
40	21	42	8-11-12-8	2.0/1.0	23	0-1.0' Same as Last, medium dense, less silt		\		\		1445
42	22	44	10-12-12-11	2.0/1.0	23	0-1.0' Loose, saturated, Gray f/m/c subangular to angular GRAVEL with m/c SAND		\		\		1500

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-MW-85D
Client: Honeywell **Proj. Loc: Settling Basin 9-15 Geddes/Camillus, NY** **File No.: 1163/43068**	**Sampler: 2: Split Spoon** **Hammer: Pneumatic** **Fall: NA**	**Location:** **Start Date: 10/22/2008** **End Date: 10/24/2008**
Boring Company: Parratt-Wolff **Foreman: Mark Eaves** **OBG Geologist: Jonathan Bone**		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed		Field Testing PID (ppm)	Date/ Time
44	23	46	11-10-11-12	2.0/1.0	21	0-1.0' Firm, saturated, Gray f/m/c GRAVEL f/m/c Sand, trace silt		\	\		1525
46	24	48	14-16-16-14	2.0/1.0	32	0-1.0' Same as Last, less silt		\	\		1530
48	25	50	7-9-7-9	2.0/1.0	16	0-1.0' Loose, saturated, Gray m/c SAND with f/m/c Gravel		\	\		1600
50	26	52	5-5-12-12	2.0/1.0	17	0-1.0' Same as Last	Gravel & Sand	\	\		1615
52	27	54	15-14-20-27	2.0/1.0	34	0-1.0' Medium Dense, saturated, Gray m/c SAND some f/m/c angular Gravel, trace silt	Sand & Gravel	\	\		1625
54	28	56	14-20-12-12	2.0/1.0	32	0-1.0' Same as Last		\	\		1645
56	29	58	10-12-15-14	2.0/1.0	27	0-1.0' Same as Last		\	\		1653
58	30	60	12-8-8-12	2.0/1.5	16	0-1.0' Soft, saturated, Gray m/c SAND, some f/m subangular Gravel, trace silt. 1.0-1.5' Loose, saturated, Gray m/c GRAVEL some m/c Sand		\	\		0815
60	31	62	11-15-14-10	2.0/1.5	29	0-1.5' Soft, saturated, Gray m/c SAND, few m/c Gravel, some silt		\	\		0830
62	32	64	18-26-50/0.4	1.4/1.4	>76	0-1.5' Dense, saturated, Gray m/c rounded SAND some m/c subrounded Gravel, trace silt					0845
64	33	66	35-50/0.3	0.8/0.8	>85	0-0.8' Dense, saturated, Gray m/c SAND and f/m/c subrounded GRAVEL, some silt. 2" layer of matrix supported Till like silt with m/c Gravel and f/m Sand in the middle of sample.	Till				0920
66	34	68	61-50-50/0.3	1.3/1.0	>100	0-1.0' Very dense, moist, Gray, f/m SAND, few subrounded m/c Gravel, small thin layer of red clay at 0.8', trace silt	Sand & Gravel		=		1000
68	35	70	26-19-31-36	2.0/1.5	50	0-0.3' Very dense, moist, Brown SILT matrix supporting subrounded to angular f/m Gravel. 0.3'-1.5' Very dense, saturated, Brown and Red m/c SAND, trace medium Gravel			=		1020
70	36	72	18-32-35-40	2.0/1.5	67	0-1.5' Very dense, moist, Reddish Brown m/c SAND, few course subrounded Gravel, trace silt			=		1050
72	37	74	30-50/0.4	0.9/0.9	>80	0-0.9' Very dense, saturated, Gray m/c SAND few m/c subrounded Gravel, trace silt			=		1110
74	38	76	24-20-23-40	2.0/1.5	43	0-1.5' Dense, saturated, Gray and Brownish Red m/c subrounded SAND, some subrounded m/c Gravel			=		1155

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-MW-85D
Client: Honeywell **Proj. Loc:** Settling Basin 9-15 Geddes/Camillus, NY **File No.:** 1163/43068	**Sampler:** 2: Split Spoon **Hammer:** Pneumatic **Fall:** NA	**Location:** **Start Date:** 10/22/2008 **End Date:** 10/24/2008
Boring Company: Parratt-Wolff **Foreman:** Mark Eaves **OBG Geologist:** Jonathan Bone		Screen = \ Grout Riser Sand Pack Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time
76	39	78	27-50/0.3	0.8/0.8	>77	0-0.8' Dense, saturated, Gray m/c SAND, few f/m/c subrounded to angular Gravel		=		1215
78	40	80	38-41-36-34	2.0/1.0	77	0-1.0' Dense, saturated, Gray f/m/c SAND with Red and Green fleks, some Silt, few f/m/c subrounded gravel				1340
80	41	82	25-31-34-28	2.0/1.5	67	0-1.5' Dense, wet, Red, Brown and Green fleked fine SAND and SILT, few f/m/c Gravel, slightly matix supported				1420
						Bottom of boring: 81.5' bgs Screen: 67.5'-77.5' bgs Riser: 0-67.5' bgs Sand (#0): 65.5'-77.5' bgs Bentonite: 62.5'-63.5' bgs Grout: 0-62.5' bgs Secured with a metal protective casing and a locking lid				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-MW-85I
Client: Honeywell	**Sampler: 2: Split Spoon**	**Location:**
Proj. Loc: Settling Basin 9-15 Geddes/Camillus, NY	**Hammer: Pneumatic**	**Start Date: 10/20/2008**
File No.: 1163/43068	**Fall: NA**	**End Date: 10/22/2008**
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Mark Eaves		**Riser** **Sand Pack**
OBG Geologist: Jonathan Bone		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Date/ Time
0	1	2	5-6-8-8	2.0/1.5	14	0-0.5' Very soft, slightyly moist, Dark Brown SILT and Fine SAND, trace vegation. 0.5'-1.5' Very soft, slightly moist, Brown Fine SAND and SILT	Silt & Sand	\ \		0845
2	2	4	10-11-18-19	2.0/1.0	29	0-1.0' Medium dense, slightly moist, Brown and Dark Brown SILT matrix, few fine rounded Gravel, trace fine coal pieces, matrix supported		\ \		0850
4	3	6	3-4-4-3	2.0/1.5	8	0-1.5' Soft, moist, Brown Fine SAND, trace silt	Fine Sand	\ \		0905
6	4	8	2-2-4-4	2.0/1.5	6	0-1.5' Same as Last, wet		\ \		0910
8	5	10	2-2-1-2	2.0/1.5	3	0-1.5' Same as Last		\ \		0930
10	6	12	1-1-2-1	2.0/1.5	3	0-1.5' Same as Last		\ \		0935
12	7	14	2-2-4-4	2.0/1.5	6	0-1.5' Same as Last		\ \		0940
14	8	16	4-8-11-14	2.0/1.5	19	0-1.0' Same as Last, increasing medium sand towards bottom. 1.0-1.5' Medium Dense, wet, Gray SILT with subrounded to angular f/m GRAVEL, few green Gravel pieces	Silt & Gravel	\ \		1005
16	9	18	10-16-20-20	2.0/1.0	36	0-1.0' Dense, wet, Gray and Grayish Green f/m/c SAND and SILT, few m/c angular Gravel	Sand, Silt & Gravel	\ \		1010
18	10	20	12-10-14-14	2.0/1.0	24	0-1.0' Dense, wet, Brown and Brownish Green m/c SAND with f/m/c angular Gravel, trace silt	Sand & Gravel	\ \		1030
20	11	22	9-12-11-22	2.0/1.0	23	0-1.0' Same as Last		\ \		1040
22	12	24	29-50/0.4	0.8/0.8	>79	0-0.8' Dense, saturated, Gray c/f angular GRAVEL some c/f Sand, trace silt	Gravel & Sand	\ \		1045
24	13	26	38-50/0.2	0.7/0.7	>88	0-0.7' Same as Last		\ \		1120
26	14	28	33-50/0.4	0.8/0.8	>83	0-0.8' Dense, wet, Gray m/c angular GRAVEL, some m/c Sand, trace silt		\ \		1145
28	15	30	24-18-24-33	2.0/1.5	42	0-1.5' Dense, wet, Gray f/m/c subangular to angular GRAVEL with m/c Sand, some silt		\ \		1300
30	16	32	20-18-20-20	2.0/1.5	38	0-1.5' Same as Last, red-green fleks		\ \		1320
32	17	34	32-38-50/0.4	1.4/1.0	>88	0-1.0' Same as Last		\ \		1330
34	18	36	14-16-14-18	2.0/1.0	30	0-1.0' Same as Last		\ \		1355
36	19	38	22-15-18-18	2.0/1.0	43	0-1.0' Same as Last, trace fleks of pyrite and m/c subrounded Sand		\ \		1400
38	20	40	10-12-10-14	2.0/1.0	22	0-1.0' Same as Last, no fleks of pyrite		\ \		1405
40	21	42	8-11-12-8	2.0/1.0	23	0-1.0' Same as Last, medium dense, less silt				1445
42	22	44	10-12-12-11	2.0/1.0	23	0-1.0' Loose, saturated, Gray f/m/c subangular to angular GRAVEL with m/c SAND				1500

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-MW-85I
Client: Honeywell	Sampler: 2: Split Spoon	Location:
Proj. Loc: Settling Basin 9-15 Geddes/Camillus, NY	Hammer: Pneumatic	Start Date: 10/20/2008
File No.: 1163/43068	Fall: NA	End Date: 10/22/2008
Boring Company: Parratt-Wolff Foreman: Mark Eaves OBG Geologist: Jonathan Bone		Screen = \ Grout Riser Sand Pack Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Date/ Time

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-MW-85I
Client: Honeywell	**Sampler: 2: Split Spoon**	**Location:**
Proj. Loc: Settling Basin 9-15 Geddes/Camillus, NY	**Hammer: Pneumatic**	**Start Date: 10/20/2008**
File No.: 1163/43068	**Fall: NA**	**End Date: 10/22/2008**
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Mark Eaves		**Riser** **Sand Pack**
OBG Geologist: Jonathan Bone		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Date/ Time
44	23	46	11-10-11-12	2.0/1.0	21	0-1.0' Firm, saturated, Gray f/m/c GRAVEL f/m/c Sand, trace silt		=		1525
46	24	48	14-16-16-14	2.0/1.0	32	0-1.0' Same as Last, less silt		=		1530
48	25	50	7-9-7-9	2.0/1.0	16	0-1.0' Loose, saturated, Gray m/c SAND with f/m/c Gravel		=		1600
50	26	52	5-5-12-12	2.0/1.0	17	0-1.0' Same as Last	Gravel & Sand	=		1615
52	27	54	15-14-20-27	2.0/1.0	34	0-1.0' Medium Dense, saturated, Gray m/c SAND some f/m/c angular Gravel, trace silt	Sand & Gravel	=		1625

Bottom of boring: 54' bgs
Trouble with flowing gravel in augers
Intermediate well set in deep boring
Screen: 44-54' bgs
Riser: 0-44' bgs
Sand (#0): 42-54' bgs
Sand (#00):40-42' bgs
Bentonite: 39-40' bgs
Grout: 0-39' bgs
Secured with a metal protective casing and locking lid

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB-915-MW-85S
Client: Honeywell	**Sampler: 2: Split Spoon**	**Location:**
Proj. Loc: Settling Basin 9-15 Geddes/Camillus, NY	**Hammer: Pneumatic**	
File No.: 1163/43068	**Fall: NA**	**Start Date: 10/27/2008** **End Date: 10/27/2008**
Boring Company: Parratt-Wolff **Foreman: Mark Eaves** **OBG Geologist: Jonathan Bone**		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Date/ Time
0	1	2	5-6-8-8	2.0/1.5	14	0-0.5' Very soft, slightyly moist, Dark Brown SILT and Fine SAND, trace vegation. 0.5'-1.5' Very soft, slightly moist, Brown Fine SAND and SILT	Silt & Fine Sand	\ \		0845
2	2	4	10-11-18-19	2.0/1.0	29	0-1.0' Medium dense, slightly moist, Brown and Dark Brown SILT matrix, few fine rounded Gravel, trace fine coal pieces, matrix supported	Silt & Gravel	\ \		0850
4	3	6	3-4-4-3	2.0/1.5	8	0-1.5' Soft, moist, Brown Fine SAND, trace silt		\ \		0905
6	4	8	2-2-4-4	2.0/1.5	6	0-1.5' Same as Last, wet		\ \		0910
8	5	10	2-2-1-2	2.0/1.5	3	0-1.5' Same as Last		\ \		0930
10	6	12	1-1-2-1	2.0/1.5	3	0-1.5' Same as Last		\ \		0935
12	7	14	2-2-4-4	2.0/1.5	6	0-1.5' Same as Last				0940
14	8	16	4-8-11-14	2.0/1.5	19	0-1.0' Same as Last, increasing medium sand towards bottom. 1.0-1.5' Medium Dense, wet, Gray SILT with subrounded to angular f/m GRAVEL, few green Gravel pieces				1005
16	9	18	10-16-20-20	2.0/1.0	36	0-1.0' Dense, wet, Gray and Grayish Green f/m/c SAND and SILT, few m/c angular Gravel		=		1010
18	10	20	12-10-14-14	2.0/1.0	24	0-1.0' Dense, wet, Brown and Brownish Green m/c SAND with f/m/c angular Gravel, trace silt		=		1030
20	11	22	9-12-11-22	2.0/1.0	23	0-1.0' Same as Last		=		1040
22	12	24	29-50/0.4	0.8/0.8	>79	0-0.8' Dense, saturated, Gray c/f angular GRAVEL some c/f Sand, trace silt		=		1045
24	13	26	38-50/0.2	0.7/0.7	>88	0-0.7' Same as Last		=		1120
						Bottom of boring: 26' bgs Screen: 16-26' bgs Riser: 0-16' bgs Sand (#0): 14-26' bgs Sand (#00): 13-14' bgs Bentonite: 12-13' bgs Grout: 0-12' bgs Secured with a metal protective casing and a locking lid				

Sample Descriptions take from previous boring SB915-MW-72I

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-87BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 9/29/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 10/6/2010
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds/David Lyons		**Riser** **Sand Pack**
OBG Geologist: Jon Bone/Nate Vogan		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed				Field Testing PID (ppm)	Field Testing Time
0	1	2	4-3-2-2	2.0/1.0	5	0-1.0 Loose, dry, Brownish Gray(5YR 4/1), F-M-C SAND, some f-m angular gravel, trace silt.	F-M-C Sand	\		\		0.0	1017
2	2	4	7-6-6-5	2.0/1.8	12	0-1.0 SAA, moist. 1.0-1.8 stiff, moist Moderate brown (5YR 4/4) SILT, trace black mottling	Silt	\		\		0.0	1020
4	3	6	4-6-7-7	2.0/1.8	13	0-1.0 SAA (1.0-1.8). 1.0-1.8 Medium dense, very moist, Moderate Brown (5YR 4/4) f SAND, trace silt.	F Sand	\		\		0.0	1030
6	4	8	8-6-5-6	2.0/1.2	11	0-1.2 SAA (1.0-1.8) no silt		\		\		NA	1035
8	5	10	3-4-3-2	2.0/2.0	7	0-2.0 Medium, wet, Moderate Brown (5YR 4/4)f SAND grading tof-m sand with depth		\		\		0.0	1040
10	6	12	2-1-2-1	2.0/2.0	3	0-2.0 Very loose, wet, Moderate Brown(5YR 4/4) med SAND	M Sand	\		\		0.0	1052
12	7	14	4-50/.4	0.9/0.9	>50	0-0.5 SAA. 0.5-0.9 Very dense, dry, Medium Light Gray (N6), f-m angular GRAVEL, some m-c sand		\		\		0.0	1057
14	8	16	10-10-17-100/0.4	1.9/1.0	27	0-1.0 Very dense, dry, Medium Gray (N5) m-c angular GRAVEL, some m-c sand, angular c sand and small gravel varying in color from White (N9), Black (N1), Moderate Brown (5YR 4/4)	Sand and Gravel	\		\		0.0	1115
16	9	18	50/0.2	0.2/0.2	>50	0-2.0 SAA		\		\		0.0	1135
18	10	20	25-31-13-10*	2.0/1.1	NA	Three inch spoon. 0-0.6 SAA. 0.6-1.1 Dense, moist to wet, Brownish Gray (5YR 4/1), m-c SAND and m-c angular GRAVEL, few 3 in. diameter cobbles subrounded		\		\		0.0	1200
20	11	22	9-10-7-17*	2.0/1.0	NA	Three inch spoon. 0-1.0 Loose, moist, Brownish Gray (5YR 4/1) m-c angular GRAVEL, some m-c sand, few large 2-3 in. subrounded gravel		\		\		0.0	1302
22	12	24	23-27-35-14*	2.0/0.6	NA	Three inch spoon. 0-0.6 SAA		\		\		0.0	1310
24	13	26	8-5-4-6	2.0/1.0	9	0-1.0 Loose, wet, Brownish Gray (5YR 4/1) m-c angular GRAVEL, some m-c angular sand, trace 2-3 in. coarse gravel	Sand and Gravel	\		\		0.0	1635
26	14	28	7-6-4-4	2.0/0.0	10	No Recovery		\		\		NA	09/30/10 852
28	15	30	7-8-10-9	2.0/0.2	18	0-0.2 Loose, saturated, Medium Dark Gray (N4) m-c angular GRAVEL, little c sand		\		\		0.0	855
30	16	32	12-14-13-11*	2.0/0.3	NA	Three inch spoon. 0-0.3 Loose, saturated, Brownish Gray(5YR 4/1) m-c angular GRAVEL pieces (2-3 in.) some m-c angular sand		\		\		0.0	920

Notes:

* 3" inch spoon

** A four foot macrocore sampler was used

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-87BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 9/29/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 10/6/2010
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds/David Lyons		**Riser** **Sand Pack**
OBG Geologist: Jon Bone/Nate Vogan		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
32	17	34	4-6-5-6*	2.0/1.5	NA	Three inch spoon. 0-0.9 Medium dense, saturated, Brownish Gray (5YR 4/1) f-m angular GRAVEL, some m-c sand, few coarse (2-3 in) angular to sub-angular gravel, 0.9-1.5 Loose, saturated, Brownish Gray (5YR 4/1) coarse subrounded to subangular gravel, little c-sand		\		\	0.0	923
34	18	36	8-8-7-8*	2.0/0.4	NA	Three inch spoon. 0-0.4 Loose, saturated, Brownish Gray (5YR 4/1) m-c SAND, some f-m subrounded gravel, little silt, trace c-gravel	Sand and Gravel	\		\	0.0	1000
36	19	38	5-7-7-5	2.0/1.5	14	0-1.5 Medium dense, saturated, Brownish Gray (5YR 4/1), f-m-c subrounded to rounded GRAVEL, some m-c sand, trace silt		\		\	0.0	1005
38	20	40	10-14-12-16*	2.0/1.5	NA	Three inch spoon. 0-1.5 Medium dense, saturated, Brownish Gray (5YR 4/1), m-c SAND, some m-c rounded to subrounded gravel, some silt supporting sand and gravel, trace coarse 2-3 in rounded gravel		\		\	0.0	10/1/10 1010
40	21	42	14-18-23-35*	2.0/1.4	NA	Three inch spoon. 0-0.5 Dense, saturated, Brownish Gray (5YR 4/1), m-c SAND, little f sand, some f-m rounded gravel. 0-5-1.4 dense, saturated, Brownish Gray (5YR 4/1) m-c SAND, some f-m angular gravel, supported by silt, trace clay. Some m-c angular to subangular gravel @ bottom, well graded	Sand	\		\	0.0	1054
42	22	44	30-23-18-14*	2.0/1.5	NA	Three inch spoon. 0-1.5 Dense, saturated, Brownish Gray (5YR4/1),m-c angular SAND, some silt supporting sand, few f-m angular gravel, trace coarse subrounded gravel, well graded		\		\	0.0	1105
44	23	46	12-14-18-18*	2.0/1.0	NA	Three inch spoon. 0-1.0 Dense, saturated,Brownish Gray (5YR 4/1), m-c subrounded SAND, few f-m rounded to subrounded gravel, trace c-subrounded gravel, well graded		\		\	0.0	1140
46	24	48	14-18-32-10*	2.0/0.9	NA	Three inch spoon. 0-0.7 SAA trace coarse (2-3 in) subrounded gravel. 0-7-0.9 stiff, saturated, Brownish Gray (5YR 4/1) SILT, some clay matrix supporting, little m-c angular to subangular sand, few m-c angular gravel, silt and clay matrix, moderately cohesive	Sand and Gravel	\		\	0.0	1150

Notes:

* 3" inch spoon

** A four foot macrocore sampler was used

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-87BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 9/29/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 10/6/2010
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds/David Lyons		**Riser** **Sand Pack**
OBG Geologist: Jon Bone/Nate Vogan		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
48	25	50	40-40-40-61*	2.0/1.4	NA	Sampled with 3 in spoon. 0-1.4 Very dense, wet, Brownish Gray (5YR 4/1) SILT, with little clay matrix supporting some m-c subangular sand, some f-m-c subangular gravel, few coarse (2-3 in) angular to subangular gravel	Sand and Gravel	\		\	0.0	1340
50	26	52	55-64-70-70*	2.0/1.4	NA	Sampled with 3 in spoon, 0-1.4 Very dense, saturated, Brownish Gray (5YR 4/1) m-c subrounded SAND, some f-m-c subrounded gravel, trace coarse (2-3 in) pieces of angular gravel, trace silt, not matrix supported		\		\	0.0	1355
52	27	54	23-25-41-40*	2.0/1.3	NA	Sampled with 3 in spoon. 0-0.6 SAA (0.6-1.3) Very dense, wet, Brownish Gray (5YR 4/1) SILT, trace clay, matrix supporting, m-c angular sand, some m-c subangular gravel, trace coarse (2-3 in) angular gravel pieces		\		\	0.0	1401
54	28	56	32-27-28-26*	2.0/1.1	NA	Sampled with 3 in spoon. SAA (0.6-1.3) increase in large angular gravel pieces, most likely from large cobble layer, slightly less matrix supported.		\		\	0.0	1450
56	29	58	25-28-35-44*	2.0/1.5	NA	Sampled with 3 in spoon. 0-1.5 Very dense, wet, Brownish Gray (5YR 4/1) SILT, little clay, matrix supporting m-c sand, some f-m-c subrounded gravel		\		\	0.0	1510
58	30	60	60-55-35-50*	2.0/1.0	NA	Sampled with 3 in spoon. 0-1.0 SAA, increase in gravel content		\		\	0.0	1600
60	31	62	43-86-90-40*	2.0/1.1	NA	Sampled with 3 in spoon. 0-1.1 Very dense, wet, Brownish Gray (5YR 4/1), f-m-c sand, little silt matrix supporting f-m-c angular to subangular gravel. Trace large (2-3 in) subrounded gravel (cobbles).		\		\	0.0	10/4/10 930
62	32	64	64-30-41-27*	2.0/1.4	NA	Sampled with 3 in spoon. 0-1.4 SAA		\		\	0.0	940
64	33	66	41-63-60-65*	2.0/1.1	NA	Sampled with 3 in spoon. 0-1.1 SAA		\		\	0.0	1042
66	34	68	35-30-29-41*	2.0/1.3	NA	Sampled with 3 in spoon. 0-1.3 Very dense, saturated, Brownish Gray (5YR 4/1) m-c SAND, some f-m-c subangular gravel, few large (2-3 in) subrounded cobbles, trace silt		\		\	0.0	1100
68	35	70	50-42-55-40*	2.0/1.3	NA	Sampled with 3 in spoon. 0-1.3 Very dense, saturated, Brownish Gray (5YR 4/1) f-m-c SAND, some m-c angular to subangular gravel, few large (2-3 in) subrounded cobbles, trace silt		\		\	0.0	1150

Notes:

* 3" inch spoon

** A four foot macrocore sampler was used

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-87BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 9/29/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 10/6/2010
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds/David Lyons		**Riser** **Sand Pack**
OBG Geologist: Jon Bone/Nate Vogan		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
70	36	72	60-71-70-80*	2.0/1.4	NA	Sampled with 3 in spoon. 0-1.4 SAA, no cobbles. Slight increase in silt content	Sand and Gravel	\		\	0.0	1330
72	37	74	55-85-70-75*	2.0/0.8	NA	Sampled with 3 in spoon. 0-0.8 Very dense, saturated, Brownish Gray (5YR 4/1), Moderate Brown (5YR 4/4) and Greenish Gray (5GY 6/1) silt, some f-m sand matrix supporting m-c angular sand, some m-c angular gravel		\		\	0.0	1340
74	38	76	NA	NA	NA	No Sample		\		\	NA	NA
76	39	78	45-45-55-80*	2.0/1.4	NA	Sampled with 3 in spoon. 0-1.4 Very dense, saturated Brownish Gray (5YR 4/1) m-c SAND, some f-m-c angular gravel, little silt, trace Greenish Gray (5GY 6/1) silt		\		\	0.0	1533
78	40	80	60-55-36-50*	2.0/1.4	NA	Sampled with 3 in spoon. 0-1.4 Very dense, saturated Brownish Gray (5YR 4/1) m-c SAND, some f-m-c subangular to subrounded gravel, little silt, few large (2-3 in) subrounded cobbles		\		\	0.0	10/5/10 904
80	41	82	55-45-35-30*	2.0/1.4	NA	Sampled with 3 in spoon. 0-1.4 SAA		\		\	0.0	952
82	42	84	25-32-22-27*	2.0/1.1	NA	Sampled with 2 in spoon. 0-1.1 SAA no cobbles		\		\	0.0	1005
84	43	86	35-60-55-50*	2.0/1.3	NA	Sampled with 3 in spoon. 0-1.3 Very dense, saturated, Brownish Gray (5YR 4/1) m-c SAND, some f-m-c gravel, trace silt		\		\	0.0	1113
86	44	88	22-30-31-25	2.0/1.3	51	0-1.3 SAA		\		\	0.0	1125
88	45	90	35-38-42-50*	2.0/1.4	NA	0-1.4 Very dense, saturated Brownish Gray (5YR 4/1) m-c sand, some f-m-c subangular to subrounded gravel, trace silt		\		\	0.0	1318
90	46	92	45-55-60-42	2.0/1.4	NA	0-1.4 SAA, slight increase in silt content, trace Greenish Gray (5GY 6/1) silt		\		\	0.0	1407
92	47	94	46-25-36-40	2.0/1.3	61	0-1.3 SAA		\		\	0.0	1420
94	48	96	40-40-70-55*	2.0/1.2	NA	0-1.2 SAA		\		\	0.0	1520
96	49	98	32-40-48-35	2.0/1.5	88	0-1.5 SAA trace Moderate Reddish Brown (10R 4/6) silt		\		\	0.0	1535
98	50	100	62-70-75-80*	2.0/1.4	NA	0-1.4 SAA		\		\	0.0	1647

Notes:

* 3" inch spoon

** A four foot macrocore sampler was used

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-87BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 9/29/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 10/6/2010
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds/David Lyons		**Riser** **Sand Pack**
OBG Geologist: Jon Bone/Nate Vogan		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
100	51	102	75-40-30-81*	2.0/1.4	NA	0-0.3 Large Medium Dark Gray (N4) pieces of cobbles (3 in) 0.3-1.4 Very dense, saturated Brownish Gray (5YR 4/1) f-m-c SAND, trace coarse gravel sized chunks of silt supporting m-c sand, trace coarse angular gravel		\ \	0.0	10/6/10 845
							102.8' Till			
102	52	104	30-28-40-70	2.0/1.7	68	0-0.8 Dense, saturated, Brownish Gray (5YR 4/1) f-m SAND, some silt, few m-c angular gravel, silt content increases with depth. 0.8-1.7 Hard, moist, Dark Reddish Brown (10R 3/4), silt matrix supported f-m subrounded gravel (Till)		\ \	0.0	915
104	53	110	NA	NA	NA	5 in. Permanent steel casing advanced to 110 ft and grouted in place. No samples taken.		\ \	NA	1/4/2011 1235
110	54	112	62-100/0.35**	0.8/0.4	NA	Dense, wet to moist, greenish gray (5GY 6/1) silt and clay matrix supporting trace f-m subangular gravel, little pale reddish brown (10R 5/4) mottling, stiff, slightly cohesive.		\ \	0.0	
							112' Shale			
114	54	116	100/0.1	0.1/0.1	>100	Medium gray to medium dark gray weathered shale, fissile, trace clay.			0.0	1425
116	55	118	NA	NA	NA	4 in Permanent steel casing grouted in place 0-116 ft. Start to bedrock core from 116-129 ft bgs, see core log for descriptions.				
118	56	120	NA	NA	NA	Shale		=		
120		122	NA	NA	NA	Shale		=		
122		124	NA	NA	NA	Shale		=		
124		126	NA	NA	NA	Shale		=		
126		128	NA	NA	NA	Shale		=		
128		129	NA	NA	NA	Shale		=		
						End of boring at 129 ft bgs				
						Well installation details:				
						Screen: 119-129				
						Riser: +2-119				
						Sand Pack (0 Sand): 117-129				
						Sand Choke (00 Sand): 114-117				
						Grout: 0-114				

Notes:

* 3" inch spoon

** A four foot macrocore sampler was used

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13221

CORE LOG

Hole No.: SB915-MW-87BR | Job No.: 1163\46698

Sheet 1 of 1 | Project: Wastebed 13 SCA

Formation Member Unit	Run No. Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1 116.0 - 119.2	11:20 10:40 11:35	116 117 118 119	SHALE; medium gray (116-117.45 ft), dark greenish gray (117.45 -119.2 ft); very fine grained; thinly laminated fractures at 116.4 ft (horizontal, slight weathering), 116.8 (slightly angled 10-15°), 117.45 (horizontal, with heavy weathering), 117.55 (vertical with moderate brown (5YR 4/4) clay/mudstone deposit), 118.3 (horizontal with heavy weathering), 118.4 vertical fracture with deposit from 117.55 continues to 119.2.	3.2	100%	72%
	2 119.2 - 129	8:05 5:45 9:05 10:30 7:15	120 121 122 123 124	SHALE; dark greenish gray (5GY 4/1); very fine grained, thinly laminated; 119.2-120.65 heavily weathered, multiple horizontal fractures, some moderate brown (5YR 4/4 clay deposits); 120.65-121.55 large vertical fracture zone filled with moderate brown clay/limestone; horizontal fracture at 121.4, 121.55, 122.0; heavily weatherd 122.2-123.0; horizontal fractures:123.45, 123.65, 124.0, 124.3, 123.4, 124.6-124.94 heavily weathered and fractured, 125.3, 125.4, 125.75, 125.9, 126.5, 126.86, 127.1,	8.5	87%	14%
		6:55 8:25 11:25 9:00 8:40	125 126 127 128 129	127.5-127.6; light brown oxidation in most fractures.			

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-87I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: Auto**	**Start Date: 2/1/2011**
File No.: 1163/46698	**Fall: NA**	**End Date: 2/3/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chatman		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	4-3-2-2	2.0/1.0	5	0-1.0 Loose, dry, Brownish Gray(5YR 4/1), F-M-C SAND, some f-m angular gravel, trace silt.	F-M-C Sand	\ \	0.0	1017
2	2	4	7-6-6-5	2.0/1.8	12	0-1.0 SAA, moist. 1.0-1.8 stiff, moist Moderate brown (5YR 4/4) SILT, trace black mottling	Silt	\ \	0.0	1020
4	3	6	4-6-7-7	2.0/1.8	13	0-1.0 SAA (1.0-1.8). 1.0-1.8 Medium dense, very moist, Moderate Brown (5YR 4/4) f SAND, trace silt.	F Sand	\ \	0.0	1030
6	4	8	8-6-5-6	2.0/1.2	11	0-1.2 SAA (1.0-1.8) no silt		\ \	NA	1035
8	5	10	3-4-3-2	2.0/2.0	7	0-2.0 Medium, wet, Moderate Brown (5YR 4/4)f SAND grading tof-m sand with depth		\ \	0.0	1040
10	6	12	2-1-2-1	2.0/2.0	3	0-2.0 Very loose, wet, Moderate Brown(5YR 4/4) med SAND	M Sand	\ \	0.0	1052
12	7	14	4-50/.4	0.9/0.9	>50	0-0.5 SAA. 0.5-0.9 Very dense, dry, Medium Light Gray (N6), f-m angular GRAVEL, some m-c sand		\ \	0.0	1057
14	8	16	10-10-17-100/0.4	1.9/1.0	27	0-1.0 Very dense, dry, Medium Gray (N5) m-c angular GRAVEL, some m-c sand, angular c sand and small gravel varying in color from White (N9), Black (N1), Moderate Brown (5YR 4/4)	Sand and Gravel	\ \	0.0	1115
16	9	18	50/0.2	0.2/0.2	>50	0-2.0 SAA		\ \	0.0	1135
18	10	20	25-31-13-10*	2.0/1.1	NA	Sampled with 3 in. spoon. 0-0.6 SAA. 0.6-1.1 Dense, moist to wet, Brownish Gray (5YR 4/1), m-c SAND and m-c angular GRAVEL, few 3 in. diameter cobbles subrounded		\ \	0.0	1200
20	11	22	9-10-7-17*	2.0/1.0	NA	Sampled with 3 in. spoon. 0-1.0 Loose, moist, Brownish Gray (5YR 4/1) m-c angular GRAVEL, some m-c sand, few large 2-3 in. subrounded gravel		\ \	0.0	1302
22	12	24	23-27-35-14*	2.0/0.6	NA	Sampled with 3 in. spoon. 0-0.6 SAA		\ \	0.0	1310
24	13	26	8-5-4-6	2.0/1.0	9	0-1.0 Loose, wet, Brownish Gray (5YR 4/1) m-c angular GRAVEL, some m-c angular sand, trace 2-3 in. coarse gravel	Sand and Gravel	\ \	0.0	1635
26	14	28	7-6-4-4	2.0/0.0	10	No Recovery		\ \	NA	09/30/10 852
28	15	30	7-8-10-9	2.0/0.2	18	0-0.2 Loose, saturated, Medium Dark Gray (N4) m-c angular GRAVEL, little c sand		\ \	0.0	855
30	16	32	12-14-13-11*	2.0/0.3	NA	Sampled with 3 in. spoon. 0-0.3 Loose, saturated, Brownish Gray(5YR 4/1) m-c angular GRAVEL pieces (2-3 in.) some m-c angular sand		\ \	0.0	920

Note: No samples were collected from 0-64'. Sample descriptions are from MW-87BR.

*Three inch spoon

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-87I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: Auto**	**Start Date: 2/1/2011**
File No.: 1163/46698	**Fall: NA**	**End Date: 2/3/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chatman		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
32	17	34	4-6-5-6*	2.0/1.5	NA	Sampled with 3 in. spoon. 0-0.9 Medium dense, saturated, Brownish Gray (5YR 4/1) f-m angular GRAVEL, some m-c sand, few coarse (2-3 in) angular to sub-angular gravel, 0.9-1.5 Loose, saturated, Brownish Gray (5YR 4/1) coarse subrounded to subangular gravel, little c-sand		\		\	0.0	923
34	18	36	8-8-7-8*	2.0/0.4	NA	Sampled with 3 in spoon. 0-0.4 Loose, saturated, Brownish Gray (5YR 4/1) m-c SAND, some f-m subrounded gravel, little silt, trace c-gravel	Sand and Gravel	\		\	0.0	1000
36	19	38	5-7-7-5	2.0/1.5	14	0-1.5 Medium dense, saturated, Brownish Gray (5YR 4/1), f-m-c subrounded to rounded GRAVEL, some m-c sand, trace silt		\		\	0.0	1005
38	20	40	10-14-12-16*	2.0/1.5	NA	Sampled with 3 in spoon. 0-1.5 Medium dense, saturated, Brownish Gray (5YR 4/1), m-c SAND, some m-c rounded to subrounded gravel, some silt supporting sand and gravel, trace coarse 2-3 in rounded gravel		\		\	0.0	10/1/10 1010
40	21	42	14-18-23-35*	2.0/1.4	NA	Sampled with 3 in spoon. 0-0.5 Dense, saturated, Brownish Gray (5YR 4/1), m-c SAND, little f sand, some f-m rounded gravel. 0-5-1.4 dense, saturated, Brownish Gray (5YR 4/1) m-c SAND, some f-m angular gravel, supported by silt, trace clay. Some m-c angular to subangular gravel @ bottom, well graded	Sand	\		\	0.0	1054
42	22	44	30-23-18-14*	2.0/1.5	NA	Sampled with 3 in spoon. 0-1.5 Dense, saturated, Brownish Gray (5YR4/1),m-c angular SAND, some silt supporting sand, few f-m angular gravel, trace coarse subrounded gravel, well graded		\		\	0.0	1105
44	23	46	12-14-18-18*	2.0/1.0	NA	Sampled with 3 in spoon. 0-1.0 Dense, saturated,Brownish Gray (5YR 4/1), m-c subrounded SAND, few f-m rounded to subrounded gravel, trace c-subrounded gravel, well graded		\		\	0.0	1140
46	24	48	14-18-32-10*	2.0/0.9	NA	Sampled with 3 in spoon. 0-0.7 SAA trace coarse (2-3 in) subrounded gravel. 0-7-0.9 stiff, saturated, Brownish Gray (5YR 4/1) SILT, some clay matrix supporting, little m-c angular to subangular sand, few m-c angular gravel, silt and clay matrix, moderately cohesive	Sand and Gravel	\		\	0.0	1150

Note: No samples were collected from 0-64'. Sample descriptions are from MW-87BR.

*Three inch spoon

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-87I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: Auto**	**Start Date: 2/1/2011**
File No.: 1163/46698	**Fall: NA**	**End Date: 2/3/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chatman		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
48	25	50	40-40-40-61*	2.0/1.4	NA	Sampled with 3 in spoon. 0-1.4 Very dense, wet, Brownish Gray (5YR 4/1) SILT, with little clay matrix supporting some m-c subangular sand, some f-m-c subangular gravel, few coarse (2-3 in) angular to subangular gravel	Sand and Gravel	\		\	0.0	1340
50	26	52	55-64-70-70*	2.0/1.4	NA	Sampled with 3 in spoon, 0-1.4 Very dense, saturated, Brownish Gray (5YR 4/1) m-c subrounded SAND, some f-m-c subrounded gravel, trace coarse (2-3 in) pieces of angular gravel, trace silt, not matrix supported		\		\	0.0	1355
52	27	54	23-25-41-40*	2.0/1.3	NA	Sampled with 3 in spoon. 0-0.6 SAA (0.6-1.3) Very dense, wet, Brownish Gray (5YR 4/1) SILT, trace clay, matrix supporting, m-c angular sand, some m-c subangular gravel, trace coarse (2-3 in) angular gravel pieces		\		\	0.0	1401
54	28	56	32-27-28-26*	2.0/1.1	NA	Sampled with 3 in spoon. SAA (0.6-1.3) increase in large angular gravel pieces, most likely from large cobble layer, slightly less matrix supported.		\		\	0.0	1450
56	29	58	25-28-35-44*	2.0/1.5	NA	Sampled with 3 in spoon. 0-1.5 Very dense, wet, Brownish Gray (5YR 4/1) SILT, little clay, matrix supporting m-c sand, some f-m-c subrounded gravel		\		\	0.0	1510
58	30	60	60-55-35-50*	2.0/1.0	NA	Sampled with 3 in spoon. 0-1.0 SAA, increase in gravel content					0.0	1600
60	31	62	43-86-90-40*	2.0/1.1	NA	Sampled with 3 in spoon. 0-1.1 Very dense, wet, Brownish Gray (5YR 4/1), f-m-c sand, little silt matrix supporting f-m-c angular to subangular gravel. Trace large (2-3 in) subrounded gravel (cobbles).					0.0	10/4/10 930
62	32	64	64-30-41-27*	2.0/1.4	NA	Sampled with 3 in spoon. 0-1.4 SAA					0.0	940
64	33	66	NA	2.0/1.2	NA	Very dense, wet, Brownish Gray (5YR4/1), f/m/c SAND, little silt matrix (supporting), little crushed cobbles			=		0.0	1042
66	34	68	NA	2.0/1.1	NA	SAA. Little to trace subrounded to subangular cobbles, trace silt			=		0.0	2/3/11
68	35	70	NA	2.0/1.4	NA	Brownish Gray (5YR4/1), wet, dense, f/m/c subangular to subrounded GRAVEL, little silt (increasing with depth), trace crushed cobbles			=		0.0	NA

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-87I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: Auto**	**Start Date: 2/1/2011**
File No.: 1163/46698	**Fall: NA**	**End Date: 2/3/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chatman		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
70	36	72	NA	2.0/1.8	NA	Dense, wet, brownish gray (5YR 4/1), f-m-c SAND, some subangular to subrounded gravel, little silt (increasing with depth), trace crushed cobble.	Sand & Gravel	=	0.0	NA
72	38	74	NA	2.0/2.0	NA	Dense, wet, brownish gray (5YR 4/1), f-m-c SAND, some subangular to subrounded gravel, little silt (increasing with depth), trace crushed cobble.		=	0.0	NA
						End of Boring at 74 ft bgs				
						Well Installation details:				
						Screen (20 slot): 64-74				
						Riser: +2-64				
						Sand pack (1 Sand): 62-74				
						Sand choke (00 Sand): 59-62				
						Grout: 0-59				

Notes:

* Three inch spoon

Where the blow count are NA and the N value is NA an auto hammer was used.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-87S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/6/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/6/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: J. Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	4-3-2-2	2.0/1.0	5	0-1.0 Loose, dry, Brownish Gray(5YR 4/1), F-M-C SAND, some f-m angular gravel, trace silt.	F-M-C Sand	\		\	0.0	1017
2	2	4	7-6-6-5	2.0/1.8	12	0-1.0 SAA, moist. 1.0-1.8 stiff, moist Moderate brown (5YR 4/4) SILT, trace black mottling	Silt	\		\	0.0	1020
4	3	6	4-6-7-7	2.0/1.8	13	0-1.0 SAA (1.0-1.8). 1.0-1.8 Medium dense, very moist, Moderate Brown (5YR 4/4) f SAND, trace silt.	F Sand	\		\	0.0	1030
6	4	8	8-6-5-6	2.0/1.2	11	0-1.2 SAA (1.0-1.8) no silt		\		\	NA	1035
8	5	10	3-4-3-2	2.0/2.0	7	0-2.0 Medium, wet, Moderate Brown (5YR 4/4)f SAND grading to f-m sand with depth		\		\	0.0	1040
10	6	12	2-1-2-1	2.0/2.0	3	0-2.0 Very loose, wet, Moderate Brown(5YR 4/4) med SAND	M Sand	\		\	0.0	1052
12	7	14	4-50/.4	0.9/0.9	>50	0-0.5 SAA. 0.5-0.9 Very dense, dry, Medium Light Gray (N6), f-m angular GRAVEL, some m-c sand		\		\	0.0	1057
14	8	16	10-10-17-100/0.4	1.9/1.0	27	0-1.0 Very dense, dry, Medium Gray (N5) m-c angular GRAVEL, some m-c sand, angular c sand and small gravel varying in color from White (N9), Black (N1), Moderate Brown (5YR 4/4)	Sand and Gravel	\		\	0.0	1115
16	9	18	50/0.2	0.2/0.2	>50	0-2.0 SAA		\		\	0.0	1135
18	10	20	25-31-13-10*	2.0/1.1	NA	Three inch spoon. 0-0.6 SAA. 0.6-1.1 Dense, moist to wet, Brownish Gray (5YR 4/1), m-c SAND and m-c angular GRAVEL, few 3 in. diameter cobbles subrounded		\		\	0.0	1200
20	11	22	9-10-7-17*	2.0/1.0	NA	Three inch spoon. 0-1.0 Loose, moist, Brownish Gray (5YR 4/1) m-c angular GRAVEL, some m-c sand, few large 2-3 in. subrounded gravel					0.0	1302
22	12	24	23-27-35-14*	2.0/0.6	NA	Three inch spoon. 0-0.6 SAA					0.0	1310
24	1	26	16-14-4-4	2.0/0.3	18	0-0.3 Loose, dry, medium light large angular gravel pieces	Sand and Gravel		=		3.1	7/6/11 1408
26	2	28	5-6-4-3	2.0/0.3	10	0-0.3 Loose/soft, saturated, dark yellowish brown m-c sand, sowe silt, few small-med subrounded gravel	sand, gravel and silt		=		0.1	1410
28	3	30	4-5-6-5	2.0/0.3	11	0-0.3 Same as above,loose increase in gravel content			=		0.1	1430
30	4	32	3-1-2-3	2.0/0.3	3	0-0.3 Same as above, very loose			=		0.0	1441
32	5	34	4-4-5-4	2.0/0.3	9	0-0.3 Same as above			=		0.0	1500
34	6	36	7-3-2-4	2.0/0.8	5	0-0.8 same as above			=		0.0	1520
						End of Boring 35'						
						Well Construction (bgs)						
						Screen: 25-35 ft (10 slot): Riser: +2.5-25 ft						
						#0 Sand: 23-35 ft: #00 Sand: 21-23 ft						
						Grout: 0-21 ft						

Note: Geologic Description from 0 to 24' bgs is from SB915-MW-87BR

* 3" inch spoon

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/11/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 1/11/2011
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: Jon Bone/Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	5-12-10-10	2.0/1.8	24	0-1.0 Soft, dry, med. gray (N5) and brownish gray (5YR 4/1) SILT, few m-c sand, little f-m angular gravel. 1.0-1.8 Stiff, dry, light brown (5YR 5/6) SILT	Fill	\ \	0.0	1345
2	2	4	12-10-10-9	2.0/2.0	20	0-2.0 Stiff, moist, light brown (5YR 5/6) SILT and f. sand.	Sand and Silt	\ \	0.0	1348
4	3	6	5-7-7-30	2.0/2.0	14	0-1.8 Stiff, wet, light brown (5YR 5/6) SILT, little clay. 1.8-2.0 Dense, dry, brownish gray (5YR 4/1) and greenish gray (5GY 6/1) SILT and f. sand matrix supporting m-c gravel.		\ \	0.0	1410
6	4	8	32-18-19-19	2.0/1.0	37	0-1.0 SAA (1.8-2.0) Little m-c SAND, f-m-c angular gravel, few light greenish gray (5GY 8/1) and moderate brown (5YR 4/4) m-c sand sized chunks of rock.	8'	\ \	0.0	1415
8	5	10	12-7-5-5	2.0/0.8	12	0-0.8 Loose, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c angular gravel, little silt.	Sand and Gravel	\ \	0.0	1418
10	6	12	3-4-3-4	2.0/0.3	7	0-0.3 SAA		\ \	0.0	1442
12	7	14	4-5-4-5	2.0/0.1	9	0-0.1 SAA		\ \	0.0	1445
14	8	16	10-5-8-12*	2.0/1.7	NA	Three inch spoon. 0-1.7 Med. dense, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c subrounded gravel, little silt, few 2-3 in cobbles.		\ \	0.0	1503
16	9	18	12-10-11-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\ \	0.0	1508
18	10	20	9-9-8-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\ \	0.0	1533
20	11	22	7-9-10-13*	2.0/1.8	NA	Three inch spoon. 0-1.8 SAA		\ \	0.0	1550
22	12	24	14-18-18-19*	2.0/2.0	NA	Three inch spoon. 0-1.5 Dense, saturated, brownish gray (5YR 4/1) f-m-c subrounded GRAVEL, little m-c sand. 1.5-2.0 Dense, dry-moist, brownish gray (5YR 4/1), greenish gray (5GY 6/1) and moderate brown (5YR 3/4) m-c SAND, little silt, some f-m angular gravel.		\ \	0.0	1558
24	13	26	10-12-8-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 Med. dense, wet, brownish gray (5YR 4/1) m-c SAND, somce f-m-c subrounded gravel, little silt.		\ \	0.0	1618
26	14	28	8-9-36-32*	2.0/0.8	NA	Three inch spoon. 0-0.8 Large 2-3 in. cobbles, trace m-c gravel and sand.		\ \	0.0	1625
28	15	30	45-25-20-20*	2.0/2.0	NA	Three inch spoon. 0-2.0 Dense, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c subrounded gravel, trace f sand and silt.	Sand and Gravel with Cobbles	\ \	0.0	10/12/10 800

*Three inch spoon

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/11/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 1/11/2011
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: Jon Bone/Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
30	16	32	40-27-32-25*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA, few 2-3 in. rounded cobbles, no f sand.		\		\	0.0	820
32	17	34	12-20-21-20*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA	Sand and Gravel with Cobbles	\		\	0.0	825
34	18	36	24-18-15-15*	2.0/1.0	NA	Three inch spoon. 0-1.0 SAA		\		\	0.0	850
36	19	38	15-14-12-12*	2.0/1.5	NA	Three inch spoon. 0-1.0 SAA		\		\	0.0	853
38	20	40	9-8-10-15*	2.0/1.3	NA	Three inch spoon. 0-1.3 Med. dense, saturated med gray (N5) large rounded cobbles, some m-c rounded gravel, m-c sand.		\		\	0.0	920
40	21	42	12-28-18-20*	2.0/1.2	NA	Three inch spoon. 0-1.2 SAA, less cobbles, more m-c GRAVEL and m-c sand.		\		\	0.0	950
42	22	44	28-40-58-50*	2.0/2.0	NA	Three inch spoon. 0-2.0 Very dense, saturated, med dark gray (N4) f-m-c SAND, some f-m-c rounded gravel, little silt, trace 2-3 in rounded cobbles		\		\	0.0	955
44	23	46	67-54-45-38*	2.0/2.0	NA	Three inch spoon. 0-2.0 SAA		\		\	0.0	1022
46	24	48	42-48-50-52*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\		\	0.0	1026
48	25	50	35-25-35-100/0.2*	1.7/1.0	NA	Three inch spoon. 0-1.0 SAA, large piece of cobble in nose of spoon		\		\	0.0	1125
50	26	52	42-20-18-53*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA, no f sand		\		\	0.0	1312
52	27	54	100/0.3*	0.3/0.3	NA	Three inch spoon. 0-0.3 SAA, little silt and f sand		\		\	0.0	1315
54	28	56	50-43-23-17*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA, large piece of yellowish gray (5Y 8/1) mudstone rock in end		\		\	0.0	1350
56	29	58	52-100/0.3*	2.0/1.3	NA	Three inch spoon. 0-1.3 SAA, few large (2-3 in) rounded cobbles.		\		\	0.0	1358
58	30	60	50-75-80-100*	2.0/2.0	NA	Three inch spoon. 0-2.0 Very dense, wet, brownish gray (5YR 4/1) f-m SAND.	F-M Sand	\		\	0.0	1443
60	31	62	17-34-35-37	2.0/1.5	69	0-1.5 SAA		\		\	0.0	1505
62	32	64	35-60-70-74	2.0/1.3	130	0-1.3 SAA		\		\	0.0	1510
64	33	66	20-30-30-30	2.0/2.0	60	0-2.0 SAA		\		\	0.0	1545
66	34	68	24-27-27-32	2.0/2.0	34	0-2.0 SAA, trace Silt		\		\	0.0	1553

* Three inch spoon

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88BR
Client: Honeywell	Sampler: 2-3" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: 140-lb drop	Start Date: 10/11/2010
File No.: 1163/46698	Fall: 30"	End Date: 1/11/2011
Boring Company: GeoLogic, Inc.		Screen = \ Grout
Foreman: Scott Breeds		Riser Sand Pack
OBG Geologist: Jon Bone/Nate Vogan		Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
68	35	70	12-12-35-60	2.0/1.5	47	0-1.5 Hard, saturated, brownish gray (5YR 4/1) f-m SAND, little greenish gray (5GY 6/1) and moderate brown (5YR 4/4) silt throughout.	Sand and Silt	\ \	0.0	10/13/10 800
70	36	72	55-60-80-72	2.0/1.5	140	0-1.5 Very dense, saturated, brownish gray (5YR 4/1), greenish gray (5GY 6/1) and moderate brown (5YR 4/4) SILT matrix supporting f-m-c sand, some m-c angular gravel. Band (0.2 ft) dark reddish brown (10R 3/4) silt, little f. sand, large gravel piece @ end of sample.	Matrix Supported Sand and Gravel	\ \	0.0	818
72	37	74	35-42-55-37	5.0/1.5	97	0-1.5 SAA, no reddish brown silt, slightly less silt matrix, increase in f-m angular gravel.	70' Till	\ \	0.0	825
74	38	76	35-40-45-55	2.0/1.5	85	0-1.5 Hard, moist, brownish gray (5YR 4/1) to moderate brown (5YR 4/4) SILT matrix supporting f-m angular gravel, few m-c sand		\ \	0.0	924
76	39	78	45-60-57-80	2.0/1.5	117	0-1.5 SAA		\ \	0.0	935
78	40	80	18-19-40-43	2.0/2.0	59	0-2.0 SAA, 0-0.5 increase in f-m-c angular gravel and m-c sand		\ \	0.0	1025
80	41	82	55-63-80-100/0.4	1.9/1.0	143	0-2.0 Very hard, moist, dark reddish brown (10R 3/4) SILT matrix supporting m-c sand and f-m angular gravel		\ \	0.0	1040
82	43	84	58-62-100/0.25	1.25/0.6	>162	0-0.6 SAA		\ \	0.0	1/6/11 1536
84	44	86	100/0.25	0.25/0.25	>100	0-0.2 SAA. 0.2-0.25 Dark greenish gray (5GY 4/1) Shale fragment.		\ \	0.0	1/7/11 0901
86	45	88	51-75-100/03	1.3/1.3	>175	0-1.2 Hard, moist, dark reddish brown (10R 3/4) silt, little clay matrix supporting m-c sand, some f-m angular greenish gray (5GY 6/1) gravel, trace coarse gravel. 1.2-1.3 Dark greenish gray (5GY 4/1) rock fragment.		\ \	0.0	1000
88	46	90	96-90-100/0.25	1.25/1.25	>190	0-1.0 SAA (0-1.2). 1.0-1.25 Hard, moist, greenish gray (5G 6/1) silt with trace clay matrix supporting m-c sand sized angular piecec of greenish gray (5G 6/1) rock fragments, possibly weathered bedrock.		\ \	0.0	1100
90	47	82	100/0.4	0.4/0.4	>100	0-0.4 SAA, slightly moist to dry.	93'	\ \	0.0	1200
92	48	94	91-100/0.75	0.75/0.75	>191	0-0.75 Hard, moist, dark reddish brown (10R 3/4) silt, little clay matrix supporting m-c sand, some f-m gravel, trace coasre subrounded gravel.	Bedrock	\ \	0.0	1300
94	49	96	100/0.1	0.1/0.1	>100	0-0.1 Dark gray (N3) rock fragments, shale.				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/11/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 1/11/2011
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: Jon Bone/Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
NA	NA	NA	NA	NA	NA	Drilled to 97 ft bgs, 4 in steel casing set at 95 due to swelling in borehole (2 ft into bedrock). Start bedrock coring, see core log for descriptions.			NA	NA
96	50	98	NA	NA	NA	Shale	Bedrock		NA	NA
98	51	100	NA	NA	NA	Shale			NA	NA
100	52	102	NA	NA	NA	Shale		=	NA	NA
102	53	104	NA	NA	NA	Shale		=	NA	NA
104	54	106	NA	NA	NA	Shale		=	NA	NA
106	55	108	NA	NA	NA	Shale		=	NA	NA
108	56	110	NA	NA	NA	Shale		=	NA	NA
						End of boring at 110 ft bgs				
						Well Installation details:				
						Screen: 100-110 ft bgs				
						Riser: +2-100				
						Sand Pack (0 sand): 98-110				
						Sand Choke (00 Sand): 95-98				
						Grout: 0-95				

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13221

CORE LOG

Hole No.: SB915-MW-88BR
Sheet 1 of 1
Job No.: 1163\46698
Project: Wastebed 13 SCA

Formation Member Unit	Run No. Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1 91 - 97.7	9:56 6.3 10:36	91 98	91-97 Grout. 97-97.7 SHALE; dark gray (N3), very fine grained, thinly laminated, one horizontal mechanical fracture at 97.3, no natural fractures.	5.7	85%	71%
	2 97.7 - 102.7	11:20 9 12:05	103	SHALE; dark gray (N3) becoming grayish blue green (5BG 3/2); thinnly laminated; horizontal weathered fractures at 97.9, 101.2, 102.6, 102.7; mechanical fractures at 99.7, 100.8, 101.4, 102; healed (gypsum/calcite?) at 99.2, 100.2; calcite/gypsum filled vugs at 99.3, 100.1, 100.3, 102.1; some clay at 97.9.	4.8	96%	78%
	3 102.7 - 110	15:30 9.6 16:40	110	SHALE; grayish blue green (5BG 3/2), massive to thinly laminated; mechanical fractures at 102.4, 103.9, 105, 106.6, 106.9, 107, 107.8, 108.9, 109.9; natural fractures at 103.4 (clay), 105.5, 105.9-106.2; low angle fracture at 109.3; healed calcite/gypsum fractures at 105.5-105.7, 107.1; vertical healed fracture at 104.2-104.8; reprecipitated vugs at 104, 105, 105.3, 106, 106.1, 108.4-108.6, 109.4.	7.3	100%	79%
				End of boring at 110 ft bgs. Lost 10 Gallons of water total.			

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/16/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/16/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	5-12-10-10	2.0/1.8	24	0-1.0 Soft, dry, med. gray (N5) and brownish gray (5YR 4/1) SILT, few m-c sand, little f-m angular gravel. 1.0-1.8 Stiff, dry, light brown (5YR 5/6) SILT	Fill	\ \	0.0	1345
2	2	4	12-10-10-9	2.0/2.0	20	0-2.0 Stiff, moist, light brown (5YR 5/6) SILT and f. sand.	Sand and Silt	\ \	0.0	1348
4	3	6	5-7-7-30	2.0/2.0	14	0-1.8 Stiff, wet, light brown (5YR 5/6) SILT, little clay. 1.8-2.0 Dense, dry, brownish gray (5YR 4/1) and greenish gray (5GY 6/1) SILT and f. sand matrix supporting m-c gravel.		\ \	0.0	1410
6	4	8	32-18-19-19	2.0/1.0	37	0-1.0 SAA (1.8-2.0) Little m-c SAND, f-m-c angular gravel, few light greenish gray (5GY 8/1) and moderate brown (5YR 4/4) m-c sand sized chunks of rock.	8'	\ \	0.0	1415
8	5	10	12-7-5-5	2.0/0.8	12	0-0.8 Loose, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c angular gravel, little silt.	Sand and Gravel	\ \	0.0	1418
10	6	12	3-4-3-4	2.0/0.3	7	0-0.3 SAA		\ \	0.0	1442
12	7	14	4-5-4-5	2.0/0.1	9	0-0.1 SAA		\ \	0.0	1445
14	8	16	10-5-8-12*	2.0/1.7	NA	Three inch spoon. 0-1.7 Med. dense, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c subrounded gravel, little silt, few 2-3 in cobbles.		\ \	0.0	1503
16	9	18	12-10-11-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\ \	0.0	1508
18	10	20	9-9-8-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\ \	0.0	1533
20	11	22	7-9-10-13*	2.0/1.8	NA	Three inch spoon. 0-1.8 SAA		\ \	0.0	1550
22	12	24	14-18-18-19*	2.0/2.0	NA	Three inch spoon. 0-1.5 Dense, saturated, brownish gray (5YR 4/1) f-m-c subrounded GRAVEL, little m-c sand. 1.5-2.0 Dense, dry-moist, brownish gray (5YR 4/1), greenish gray (5GY 6/1) and moderate brown (5YR 3/4) m-c SAND, little silt, some f-m angular gravel.		\ \	0.0	1558
24	13	26	10-12-8-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 Med. dense, wet, brownish gray (5YR 4/1) m-c SAND, somce f-m-c subrounded gravel, little silt.		\ \	0.0	1618
26	14	28	8-9-36-32*	2.0/0.8	NA	Three inch spoon. 0-0.8 Large 2-3 in. cobbles, trace m-c gravel and sand.		\ \	0.0	1625
28	15	30	45-25-20-20*	2.0/2.0	NA	Three inch spoon. 0-2.0 Dense, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c subrounded gravel, trace f sand and silt.	Sand and Gravel with Cobbles	\ \	0.0	10/12/10 800

*Three inch spoon. No samples taken 0-59 ft bgs. Descriptions taken from SB915-MW-88BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/16/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/16/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
30	16	32	40-27-32-25*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA, few 2-3 in. rounded cobbles, no f sand.	Gravel with Cobbles	\		\	0.0	820
32	17	34	12-20-21-20*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\		\	0.0	825
34	18	36	24-18-15-15*	2.0/1.0	NA	Three inch spoon. 0-1.0 SAA		\		\	0.0	850
36	19	38	15-14-12-12*	2.0/1.5	NA	Three inch spoon. 0-1.0 SAA		\		\	0.0	853
38	20	40	9-8-10-15*	2.0/1.3	NA	Three inch spoon. 0-1.3 Med. dense, saturated med gray (N5) large rounded cobbles, some m-c rounded gravel, m-c sand.	Sand and Gravel	\		\	0.0	920
40	21	42	12-28-18-20*	2.0/1.2	NA	Three inch spoon. 0-1.2 SAA, less cobbles, more m-c GRAVEL and m-c sand.		\		\	0.0	950
42	22	44	28-40-58-50*	2.0/2.0	NA	Three inch spoon. 0-2.0 Very dense, saturated, med dark gray (N4) f-m-c SAND, some f-m-c rounded gravel, little silt, trace 2-3 in rounded cobbles		\		\	0.0	955
44	23	46	67-54-45-38*	2.0/2.0	NA	Three inch spoon. 0-2.0 SAA		\		\	0.0	1022
46	24	48	42-48-50-52*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\		\	0.0	1026
48	25	50	35-25-35-100/0.2*	1.7/1.0	NA	Three inch spoon. 0-1.0 SAA, large piece of cobble in nose of spoon		\		\	0.0	1125
50	26	52	42-20-18-53*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA, no f sand		\		\	0.0	1312
52	27	54	100/0.3*	0.3/0.3	NA	Three inch spoon. 0-0.3 SAA, little silt and f sand		\		\	0.0	1315
54	28	56	50-43-23-17*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA, large piece of yellowish gray (5Y 8/1) mudstone rock in end					0.0	1350
56	29	58	52-100/0.3*	2.0/1.3	NA	Three inch spoon. 0-1.3 SAA, few large (2-3 in) rounded cobbles.					0.0	1358
59	30	61	75-45-45-48	2.0/1.3	90	Moderate Brown(5YR4/4), wet, dense, m/f SAND			=		0.0	2/16/2011
61	31	63	56-77-78-89	2.0/1.0	>100	SAA. Trace coarse rounded gravel			=		0.0	2/16/2011
63	32	65	32-42-48-50	2.0/2.0	90	Moderate Brown(5YR4/4) to Grayish Red(5R4/2)wet, dense, f/m/c SAND, little rounded m/c gravel, trace silt			=		0.0	2/16/2011
65	33	67	100/.03	0.3/0.2	>100	Moderate Brown(5YR4/4) to Grayish Red(5R4/2)wet, very dense, f/m SAND, little to some f/m/c gravel (matrix supported, trace silt			=		0.0	2/16/2011

*Three inch spoon. No samples taken 0-59 ft bgs. Descriptions taken from SB915-MW-88BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/16/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/16/2011**
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Joe Percy		**Riser** **Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
67	34	69	28-26-40-50/0.4	2.0/NA	66	Brownish Gray(5YR4/1) dense, wet, f/m/c SAND, little greenish Gray(5GY6/1) and Moderate Brown(5YR4/4) silt, trace f/m/c subrounded gravel		=	0.0	2/16/2011
						End of Boring at 69 ft Screen: 59-79 ft Riser: +2.5-59 ft Sand Pack: 57-69 ft Choke Sand: 54-57 ft Grout: 0-54 ft				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/16/2011
File No.: 1163/46698	**Fall:** 30"	**End Date:** 2/17/2011
Boring Company: Parratt-Wolff **Foreman:** Joe Percy **OBG Geologist:** Nate Vogan		**Screen** = \ Grout **Riser** Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	5-12-10-10	2.0/1.8	24	0-1.0 Soft, dry, med. gray (N5) and brownish gray (5YR 4/1) SILT, few m-c sand, little f-m angular gravel. 1.0-1.8 Stiff, dry, light brown (5YR 5/6) SILT	Fill	\ \	0.0	1345
2	2	4	12-10-10-9	2.0/2.0	20	0-2.0 Stiff, moist, light brown (5YR 5/6) SILT and f. sand.	Sand and Silt	\ \	0.0	1348
4	3	6	5-7-7-30	2.0/2.0	14	0-1.8 Stiff, wet, light brown (5YR 5/6) SILT, little clay. 1.8-2.0 Dense, dry, brownish gray (5YR 4/1) and greenish gray (5GY 6/1) SILT and f. sand matrix supporting m-c gravel.		\ \	0.0	1410
6	4	8	32-18-19-19	2.0/1.0	37	0-1.0 SAA (1.8-2.0) Little m-c SAND, f-m-c angular gravel, few light greenish gray (5GY 8/1) and moderate brown (5YR 4/4) m-c sand sized chunks of rock.	8'	\ \	0.0	1415
8	5	10	12-7-5-5	2.0/0.8	12	0-0.8 Loose, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c angular gravel, little silt.	Sand and Gravel	\ \	0.0	1418
10	6	12	3-4-3-4	2.0/0.3	7	0-0.3 SAA		\ \	0.0	1442
12	7	14	4-5-4-5	2.0/0.1	9	0-0.1 SAA		\ \	0.0	1445
14	8	16	10-5-8-12*	2.0/1.7	NA	Three inch spoon. 0-1.7 Med. dense, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c subrounded gravel, little silt, few 2-3 in cobbles.		\ \	0.0	1503
16	9	18	12-10-11-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\ \	0.0	1508
18	10	20	9-9-8-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\ \	0.0	1533
20	11	22	7-9-10-13*	2.0/1.8	NA	Three inch spoon. 0-1.8 SAA		\ \	0.0	1550
22	12	24	14-18-18-19*	2.0/2.0	NA	Three inch spoon. 0-1.5 Dense, saturated, brownish gray (5YR 4/1) f-m-c subrounded GRAVEL, little m-c sand. 1.5-2.0 Dense, dry-moist, brownish gray (5YR 4/1), greenish gray (5GY 6/1) and moderate brown (5YR 3/4) m-c SAND, little silt, some f-m angular gravel.		\ \	0.0	1558
24	13	26	10-12-8-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 Med. dense, wet, brownish gray (5YR 4/1) m-c SAND, somce f-m-c subrounded gravel, little silt.		\ \	0.0	1618
26	14	28	8-9-36-32*	2.0/0.8	NA	Three inch spoon. 0-0.8 Large 2-3 in. cobbles, trace m-c gravel and sand.		\ \	0.0	1625
28	15	30	45-25-20-20*	2.0/2.0	NA	Three inch spoon. 0-2.0 Dense, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c subrounded gravel, trace f sand and silt.	Sand and Gravel with Cobbles	\ \	0.0	10/12/10 800
30	16	32	40-27-32-25*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA, few 2-3 in. rounded cobbles, no f sand.		\ \	0.0	820

*Three inch spoon. No samples taken 0-59 ft bgs. Descriptions taken from SB915-MW-88BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88I
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/16/2011
File No.: 1163/46698	**Fall:** 30"	**End Date:** 2/17/2011
Boring Company: Parratt-Wolff **Foreman:** Joe Percy **OBG Geologist:** Nate Vogan		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
32	17	34	12-20-21-20*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\ \	0.0	825
34	18	36	24-18-15-15*	2.0/1.0	NA	Three inch spoon. 0-1.0 SAA		\ \	0.0	850
36	19	38	15-14-12-12*	2.0/1.5	NA	Three inch spoon. 0-1.0 SAA		\ \	0.0	853
38	20	40	9-8-10-15*	2.0/1.3	NA	Three inch spoon. 0-1.3 Med. dense, saturated med gray (N5) large rounded cobbles, some m-c rounded gravel, m-c sand.	Sand and Gravel		0.0	920
40	21	42	12-28-18-20*	2.0/1.2	NA	Three inch spoon. 0-1.2 SAA, less cobbles, more m-c GRAVEL and m-c sand.			0.0	950
42	22	44	5-16-17-16	2.0/0.4	33	Poor recovery. Loose, saturated, Brownish Gray(5YR4/1), crushed COBBLES, little f/m sand		=	0.0	
44	23	46	27-42-20-21	2.0/1.3	62	Dense, saturated, Brownish Gray(5YR4/1) to Medium Dark Gray(N4), f/m/c SAND, some f/m/c rounded gravel, little silt and crushed cobbles		=	0.0	
46	24	48	24-27-21-22	2.0/1.2	48	SAA		=	0.0	
48	25	50	50/0.4'	0.4/0.4	>50	SAA, very dense, crushed cobble in spoon		=	0.0	
50	26	52	47-30-50-50/0.4	1.8/1.1	80	SAA, dense		=	0.0	
						EOB at 52'				
						Screen: 42 - 52' (20 Slot)				
						Sand Pack: 40 - 52'				
						Choke: 37 - 40'				
						Riser: +2.5-42'				

*Three inch spoon. No samples taken from 42-52 ft bgs. Descriptions taken from SB915-MW-88BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/17/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/18/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	5-12-10-10	2.0/1.8	24	0-1.0 Soft, dry, med. gray (N5) and brownish gray (5YR 4/1) SILT, few m-c sand, little f-m angular gravel. 1.0-1.8 Stiff, dry, light brown (5YR 5/6) SILT	Fill	\		\	0.0	1345
2	2	4	12-10-10-9	2.0/2.0	20	0-2.0 Stiff, moist, light brown (5YR 5/6) SILT and f. sand.	Sand and Silt	\		\	0.0	1348
4	3	6	5-7-7-30	2.0/2.0	14	0-1.8 Stiff, wet, light brown (5YR 5/6) SILT, little clay. 1.8-2.0 Dense, dry, brownish gray (5YR 4/1) and greenish gray (5GY 6/1) SILT and f. sand matrix supporting m-c gravel.		\		\	0.0	1410
6	4	8	32-18-19-19	2.0/1.0	37	0-1.0 SAA (1.8-2.0) Little m-c SAND, f-m-c angular gravel, few light greenish gray (5GY 8/1) and moderate brown (5YR 4/4) m-c sand sized chunks of rock.	8'	\		\	0.0	1415
8	5	10	12-7-5-5	2.0/0.8	12	0-0.8 Loose, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c angular gravel, little silt.	Sand and Gravel	\		\	0.0	1418
10	6	12	3-4-3-4	2.0/0.3	7	0-0.3 SAA		\		\	0.0	1442
12	7	14	4-5-4-5	2.0/0.1	9	0-0.1 SAA		\		\	0.0	1445
14	8	16	10-5-8-12*	2.0/1.7	NA	0-1.7 Med. dense, saturated, brownish gray (5YR 4/1) m-c SAND, some f-m-c subrounded gravel, little silt, few 2-3 in cobbles.		\		\	0.0	1503
16	9	18	12-10-11-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\		\	0.0	1508
18	10	20	9-9-8-7*	2.0/1.5	NA	Three inch spoon. 0-1.5 SAA		\		\	0.0	1533
20	11	22	7-9-10-13*	2.0/1.8	NA	Three inch spoon. 0-1.8 SAA					0.0	1550
22	12	24	14-18-18-19*	2.0/2.0	NA	Three inch spoon. 0-1.5 Dense, saturated, brownish gray (5YR 4/1) f-m-c subrounded GRAVEL, little m-c sand. 1.5-2.0 Dense, dry-moist, brownish gray (5YR 4/1), greenish gray (5GY 6/1) and moderate brown (5YR 3/4) m-c SAND, little silt, some f-m angular gravel.					0.0	1558
25	13	27	23-12-10-7	2.0/0.4	22	Poor recovery. Loose, saturated, Brownish Gray(5YR4/1) m/c SAND, some fine gravel, cobble lodged in spoon nose.			=		NA	NA
27	14	29	4-3-2-3	2.0/0.8	5	Medium dense, wet, Brownish Gray(5YR4/1), m/c SAND, some f/m/c rounded to subrounded gravel, little crushed cobbles, trace silt			=		NA	NA
29	15	31	33-55-40-30	2.0/0.6	95	Loose, wet, Brownish Gray(5YR4/1), f/m/c rounded to subrounded GRAVEL, some f/m/c sand, little silt			=		NA	NA

*Three inch spoon. No samples taken 0-25 ft. Descriptions taken from SB915-MW-88BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-88S
Client: Honeywell **Proj. Loc:** Wastebed 13 SCA Camillus, NY **File No.:** 1163/46698	**Sampler:** 2" Split Spoon **Hammer:** 140-lb drop **Fall:** 30"	**Location:** SCA **Start Date:** 2/17/2011 **End Date:** 2/18/2011
Boring Company: Parratt-Wolff **Foreman:** Joe Percy **OBG Geologist:** Nate Vogan		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
31	16	33	33-50/3"	2.0/0.7	>50	Dense, saturated, Brownish Gray(5YR4/1), m/c SAND, some f/m/c subrounded gravel, little greenish gray(5GY6/1) silt		=	NA	NA
33	17	35	11-15-20-9	2.0/0.9	35	Loose, saturated, Brownish Gray(5YR4/1), crushed cobble, some f/m/c rounded to subrounded GRAVEL, little f/m/c sand		=	NA	NA
						End of boring at 35 ft bgs				
						Well installation details:				
						Screen: 25 - 35 of 20 slot				
						Riser: +2 - 25				
						Sand Pack (1 Sand): 23 - 35				
						Sand Choke (00 Sand): 20 - 23				
						Grout: 0 - 20				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-89BR
Client: Honeywell	**Sampler: 2-3" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 10/7/2010**
File No.: 1163/46698	**Fall: 30"**	**End Date: 1/28/2011**
Boring Company: GeoLogic, Inc.		**Screen = \ Grout**
Foreman: Scott Breeds		**Riser Sand Pack**
OBG Geologist: Jon Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	5-8-8-9	2.0/1.8	16	0-1.8 Very stiff, dry, Moderate Brown (5YR 3/4) SILT matrix supporting m-c sand and f-m gravel	Fill	\		\	0.0	925
2	2	4	9-12-5-6	2.0/1.8	17	0-0.8 SAA. 0.8-1.8 Medium, dry, Grayish Brown (5YR 3/2) SILT, trace f sand.	4'	\		\	0.0	930
4	3	6	7-7-8-6	2.0/0.5	15	0-0.5 Stiff, dry, Moderate Brown (5YR 3/4) SILT, some clay, moderately cohesive	Silt, some Clay	\		\	0.0	1015
6	4	8	7-8-9-9	2.0/0.8	17	0-0.8 SAA, slight decrease in clay content		\		\	0.0	1017
8	5	10	8-7-6-5	2.0/1.3	13	0-1.3 SAA, trace clay content	Silt	\		\	0.0	1020
10	6	12	3-3-3-3	2.0/1.3	6	0-1.3 SAA		\		\	0.0	1037
12	7	14	3-4-5-5	2.0/1.5	9	0-1.5 SAA		\		\	0.0	1040
14	8	16	8-9-4-5	2.0/0.4	13	0-0.4 SAA, wet		\		\	0.0	1056
16	9	18	4-5-7-8	2.0/1.5	12	0-1.5 SAA, little f sand		\		\	0.0	1058
18	10	20	3-3-4-6	2.0/2.0	7	0-2.0 SAA	20'	\		\	0.0	1102
20	11	22	9-18-28-30	2.0/1.3	46	0-0.3 SAA, some f sand. 0.3-0.5 Medium, wet, Brownish Gray (5YR 4/1)f-m SAND, little silt, few m-c subrounded gravel. 0.5-1.3 stiff, wet, Light Olive Gray (5Y 6/1) and Moderate Brown (5YR 4/1), SILT matrix, little f-m sand, few f-m angular gravel	Silt, fm Sand, Gravel	\		\	0.0	1115
22	12	24	30-20-16-22	2.0/1.3	36	0-1.3 Stiff, wet, Greenish Gray (5GY 6/1) and Moderate Brown (5YR 4/4) SILT matrix, little f-m sand, few f-m angular gravel		\		\	0.0	1120
24	13	26	10-7-4-4	2.0/1.1	11	0-1.1 Soft, saturated, Brownish Gray (5YR 4/1) f-m SAND, some silt, little f-m gravel	fm Sand and Silt	\		\	0.0	1235
26	14	28	4-4-3-3	2.0/1.0	7	0-1.0 SAA Greenish Gray (5GY 6/1) and Brownish Gray (5YR 4/1)		\		\	0.0	1240
28	15	30	6-5-4-4	2.0/1.0	9	0-1.0 SAA increase in f-m sand content. Few thin bands (0.1 ft) of higher silt and trace clay content		\		\	0.0	1243
30	16	32	6-7-5-9	2.0/0.4	12	0-0.4 SAA		\		\	0.0	1306
32	17	34	4-5-4-7	2.0/1.4	9	0-1.4 SAA, trace gravel		\		\	0.0	1310
34	18	36	5-5-5-5	2.0/0.8	10	0-0.8 Loose, saturated, Brownish Gray (5YR 4/1) and Greenish Gray (5GY 6/1) m-c SAND, little f-m gravel, trace silt	mc Sand	\		\	0.0	1328
36	19	38	7-8-13-14	2.0/1.5	21	0-1.5 Medium dense, saturated, Brownish Gray (5YR 4/1) m-c SAND, varying amounts of Greenish Gray (5GY 6/1) and Moderate Brown (5YR 4/4) SILT throughout. Partially matrix supported @1.0-1.2, few m-c angular gravel		\		\	0.0	1330

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-89BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/7/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 1/28/2011
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: Jon Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
38	20	40	28-17-14-13	2.0/2.0	31	0-0.3 SAA. 0.3-2.0 Medium dense, saturated, Brownish Gray (5YR 4/1), f-m SAND, trace silt	fm Sand and Silt	\ \	0.0	1335
40	21	42	10-10-12-15	2.0/1.7	32	0-1.7 Dense, saturated, brownish gray (5YR 4/1), f-m SAND, trace silt.		\ \	0.0	1410
42	22	44	20-16-24-35	2.0/1.8	40	0-1.8 SAA, decrease in m sand, slight increase in silt content.		\ \	0.0	1414
44	23	46	5-12-16-17	2.0/1.5	28	0-1.5 SAA, band of silt with little f sand from 0.6-0.7		\ \	0.0	1442
46	24	48	14-16-18-20	2.0/1.8	34	0-1.8 SAA, no bands of silt, two large pieces of angular gravel at 1.5 and 1.7		\ \	0.0	1445
48	25	50	20-16-14-18	2.0/1.8	30	0-0.8 Dense, wet, brownish gray (5YR 4/1) m-c SAND, little f sand, few f-m gravel, trace silt. 0.8-1.8 Stiff, saturated, brownish gray (5YR 4/1), f sand, little c sand and silt.	mc Sand	\ \	0.0	1450
50	26	52	9-18-20-21	2.0/1.8	38	0-1.8 SAA (0.8-1.8)	f Sand and Silt	\ \	0.0	1531
52	27	54	24-26-20-22	2.0/1.3	46	0-1.3 Dense, saturated, brownish gray (5YR 4/1), f-m SAND, little c sand, trace silt.		\ \	0.0	1537
54	28	56	17-14-16-21	2.0/1.7	30	0-1.7 SAA, increase in c sand, trace f sand and silt.		\ \	0.0	1605
56	29	58	18-22-24-22	2.0/1.8	46	0-1.8 Dense, saturated, brownish gray (5YR 4/1) m-c SAND few f-m subrounded gravel, trace f sand.		\ \	0.0	1610
58	30	60	14-17-19-32	2.0/2.0	36	0-2.0 SAA, fining downward to f-m brownish gray (5YR 4/1) SAND, trace m rounded gravel throughout.		\ \	0.0	1615
60	31	62	16-12-11-13	2.0/1.6	23	0-1.6 Dense, saturated, brownish gray (5YR 4/1), f-m SAND, few c sand and trace silt from 0.0-0.3.		\ \	0.0	10/8/10 745
62	32	64	12-14-14-20	2.0/1.8	28	0-1.8 SAA, no c sand or silt.		\ \	0.0	750
64	33	66	14-19-30-40	2.0/1.5	49	0-1.5 SAA		\ \	0.0	825
66	34	68	32-38-44-40	2.0/1.8	82	0-1.8 SAA, very dense		\ \	0.0	838
68	35	70	23-28-32-37	2.0/2.0	60	0-2.0 SAA, decrease in m sand content		\ \	0.0	845
70	36	72	13-17-21-18	2.0/1.5	38	0-1.5 Dense, saturated, brownish gray (5YR 4/1) f-m SAND, trace silt, slightly runny.		\ \	0.0	918
72	37	74	17-20-28-18	2.0/1.5	48	0-1.3 SAA. 1.3-1.5 Very stiff, wet, brownish gray (5YR 4/1) and greenish gray (5GY 6/1) SILT, little f sand, one large piece rounded gravel.		\ \	0.0	921

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-89BR
Client: Honeywell	**Sampler: 2-3" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 10/7/2010**
File No.: 1163/46698	**Fall: 30"**	**End Date: 1/28/2011**
Boring Company: GeoLogic, Inc.		**Screen = \ Grout**
Foreman: Scott Breeds		**Riser Sand Pack**
OBG Geologist: Jon Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
74	38	76	10-45-50/0.3	1.3/0.8	>95	0-0.7 SAA. 0.7-0.8 Hard, moist, medium dark gray (N4) ROCK FRAGMENTS and hard medium dark gray silt.	Silt and f Sand	\		\	0.0	958
76.5	39	78	100/0.3*	0.3/0.0	NA	Three inch spoon. Drilled to 76.5 to get through cobble, No recovery	Sand and Gravel	\		\	0.0	1034
78	40	80	100/0.4*	0.4/0.3	NA	Three inch spoon. 0-0.3 Very dense, wet, brownish gray (5YR 4/1) and greenish gray (5GY 6/1) m-c GRAVEL, some m-c sand, few (1-3 in) angular gravel pieces, little silt matrix.		\		\	0.0	1125
80	41	82	64-83-88-70*	2.0/2.0	NA	Three inch spoon. 0-2.0 Very dense, saturated, brownish gray (5YR 4/1) and medium gray (N5) m-c sand and silt matrix supporting m-c subrounded gravel, few 2-3 in angular gravel pieces.	Matrix Supported Sand and Gravel	\		\	0.0	1247
82	42	84	70-58-44-80*	2.0/2.0	NA	Three inch spoon. 0-2.0 Very dense, wet, brownish gray (5YR 4/1), grayish green (5GY 6/1) and medium gray (N5) SILT and f-m sand matrix supporting f-m-c subangular and subrounded gravel, few large (2-3 in) angular gravel pieces.	84'	\		\	0.0	1255
84	43	86	72-70-84-120	2.0/2.0	154	0-2.0 Very hard, moist, dark reddish brown (10R 3/4) SILT matrix, little f sand, supporting f-m-c subangular gravel, few large 2-3 in large angular gravel pieces.	Till	\		\	0.0	1355
86	44	86.7	100-100/0.2	0.7/0.7	>200	0-0.7 SAA. 5 in. permanent steel casing set at 88 ft bgs.		\		\	0.0	1420
88	45	90	70-86-100/0.3	1.3/0.6	>186	0-0.6 Very hard, slightly moist, dark reddish brown (10R 3/4) silt matrix with trace fine sand surrporting f-m-c subangular gravel, few large angular gravel pieces.		\		\	0.0	1/12/11 1430
90	46	92	100/0.0	0.0/0.0	>100	No recovery, refusal.		\		\	NA	1545
92	47	94	NA	NA	NA	No sample, auger to next sampling interval.		\		\	NA	1/13/11 1030
94	48	96	100/0.1	0.1/0.1	>100	0-0.1 Very hard, dry, greenish gray (5GY 6/1), silt, breaks in thin shale-like fragments, extremely dense.		\		\	0.0	1045
96	49	98	100/0.15	0.15/0.15	>100	0-0.15 SAA		\		\	0.0	1150
98	50	100	100/0.1	0.1/0.1	>100	0-0.1 Very hard, slightly moist, greenish gray (5G 6/1) silt, trace fine sand supporting f-m gravel, light brownish gray (5YR 6/1) mottling.		\		\	0.0	1310
100	51	102	45-100/0.5	0.8/0.8	>145	0-0.8 Very hard, slightly moist, greenish gray (5GY 6/1) silt, trace fine sand, brittle, trace slight light brownish gray (5YR 4/1) mottling.		\		\	0.0	1430
102	52	104	100/0.15	0.15/0.15	>100	0-0.15 SAA, no mottling, no sand.	Till	\		\	0.0	1540
104	53	106	100/0.1	0.1/0.1	>100	0-0.1 SAA	106'	\		\	0.0	1/14/11 0830

* Three inch spoon.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-89BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/7/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 1/28/2011
Boring Company: GeoLogic, Inc. **Foreman:** Scott Breeds **OBG Geologist:** Jon Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
							Shale			
104.1	54	108	NA	3.9/1.8	NA	Used core barrel to core from 104.1 to 108 ft bgs. Recovered 1.8 ft of bedrock. Greenish gray (5G 6/1) Shale contact at 106 ft bgs.		\ \	NA	1045
108	55	110	NA	2.0/1.4	NA	Med dark gray (N4) Shale, moderately weathered, trace clay in weathered zones, trace gypsum at 1.3-1.4. Drilling company overshot core run to 115 ft. NYSDEC approves setting 4 in steel casing at 115 ft bgs. Start to bedrock core, see core log for descriptions.		\ \	NA	1245
115	56	117	NA	NA	NA	Shale			NA	NA
117	57	119	NA	NA	NA	Shale		=	NA	NA
119	58	121	NA	NA	NA	Shale		=	NA	NA
121	59	123	NA	NA	NA	Shale		=	NA	NA
123	60	125	NA	NA	NA	Shale		=	NA	NA
125	61	127	NA	NA	NA	Shale		=	NA	NA
127	62	128	NA	NA	NA	Shale		=	NA	NA
						End of boring at 128 ft bgs				
						Well Installation Details:				
						Screen: 118-128				
						Riser: +2-118				
						Sand Pack: 116-128				
						Sand Choke: 113-116				
						Grout: 0-113				

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13221

CORE LOG

Hole No.: SB915-MW-89BR | Job No.: 1163\46698

Sheet 1 of 1 | Project: Wastebed 13 SCA

Formation Member Unit	Run No. Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	3 115 - 119	14	115 119	SHALE; greenish gray (5G 6/1) becoming medium dark gray (N4) at 117; very fine grained, thinly laminated, slightly fissle; highly fractured every 0.1 to 0.2 ft, clay present in weathered fractures; gypsum layers at 115.5, 116.8, 117.3, 117.6.	2.8	70%	0%
	4 119 - 124	9:05 15 10:20	124	SHALE; medium dark gray (N4) becoming greenish gray (5G 6/1) at 120.1; very fine grained, thinly laminated, slightly fissile in gray section mechanical fracures at 119.5, 120.6, 121.4, 122.5, 122.9, 123.3, 123.7; highly fractured at 119.7-123.5; gypsum at 119.5 to 119.7 and 120.2 to 120.3.	4.6	92%	35%
	5 124 - 128	10:45 12.5 11:35	128	SHALE; greenish gray (5G 6/1) and medium dark gray (N4); very fine grained; thinly laminated; slightly fissle; highly fractured 124.6-124.9, 125.2-125.5, 126.2-126.7; weathered fractures with clay at 125.9, 126.3, 126.6; gypsum zones at 126.2-126.9, 127.4-127.5; vertical healed fractures at 124.9-125.2, 125.7-125.9, and 126.7-127.	3.8	95%	35%
				End of core hole at 128 ft. See boring log for well installation details. Lost 250 Gallons Water Total			

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-89D
Client: Honeywell	**Sampler: 2-3" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/14/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/16/2011**
Boring Company: Parrat-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	5-8-8-9	2.0/1.8	16	0-1.8 Very stiff, dry, Moderate Brown (5YR 3/4) SILT matrix supporting m-c sand and f-m gravel	Fill	\		\	0.0	925
2	2	4	9-12-5-6	2.0/1.8	17	0-0.8 SAA. 0.8-1.8 Medium, dry, Grayish Brown (5YR 3/2) SILT, trace f sand.	4'	\		\	0.0	930
4	3	6	7-7-8-6	2.0/0.5	15	0-0.5 Stiff, dry, Moderate Brown (5YR 3/4) SILT, some clay, moderately cohesive	Silt, some Clay	\		\	0.0	1015
6	4	8	7-8-9-9	2.0/0.8	17	0-0.8 SAA, slight decrease in clay content		\		\	0.0	1017
8	5	10	8-7-6-5	2.0/1.3	13	0-1.3 SAA, trace clay content	Silt	\		\	0.0	1020
10	6	12	3-3-3-3	2.0/1.3	6	0-1.3 SAA		\		\	0.0	1037
12	7	14	3-4-5-5	2.0/1.5	9	0-1.5 SAA		\		\	0.0	1040
14	8	16	8-9-4-5	2.0/0.4	13	0-0.4 SAA, wet		\		\	0.0	1056
16	9	18	4-5-7-8	2.0/1.5	12	0-1.5 SAA, little f sand		\		\	0.0	1058
18	10	20	3-3-4-6	2.0/2.0	7	0-2.0 SAA	20'	\		\	0.0	1102
20	11	22	9-18-28-30	2.0/1.3	46	0-0.3 SAA, some f sand. 0.3-0.5 Medium, wet, Brownish Gray (5YR 4/1)f-m SAND, little silt, few m-c subrounded gravel. 0.5-1.3 stiff, wet, Light Olive Gray (5Y 6/1) and Moderate Brown (5YR 4/1), SILT matrix, little f-m sand, few f-m angular gravel	Silt, fm Sand, Gravel	\		\	0.0	1115
22	12	24	30-20-16-22	2.0/1.3	36	0-1.3 Stiff, wet, Greenish Gray (5GY 6/1) and Moderate Brown (5YR 4/4) SILT matrix, little f-m sand, few f-m angular gravel		\		\	0.0	1120
24	13	26	10-7-4-4	2.0/1.1	11	0-1.1 Soft, saturated, Brownish Gray (5YR 4/1) f-m SAND, some silt, little f-m gravel	fm Sand and Silt	\		\	0.0	1235
26	14	28	4-4-3-3	2.0/1.0	7	0-1.0 SAA Greenish Gray (5GY 6/1) and Brownish Gray (5YR 4/1)		\		\	0.0	1240
28	15	30	6-5-4-4	2.0/1.0	9	0-1.0 SAA increase in f-m sand content. Few thin bands (0.1 ft) of higher silt and trace clay content		\		\	0.0	1243
30	16	32	6-7-5-9	2.0/0.4	12	0-0.4 SAA		\		\	0.0	1306
32	17	34	4-5-4-7	2.0/1.4	9	0-1.4 SAA, trace gravel		\		\	0.0	1310
34	18	36	5-5-5-5	2.0/0.8	10	0-0.8 Loose, saturated, Brownish Gray (5YR 4/1) and Greenish Gray (5GY 6/1) m-c SAND, little f-m gravel, trace silt	mc Sand	\		\	0.0	1328
36	19	38	7-8-13-14	2.0/1.5	21	0-1.5 Medium dense, saturated, Brownish Gray (5YR 4/1) m-c SAND, varying amounts of Greenish Gray (5GY 6/1) and Moderate Brown (5YR 4/4) SILT throughout. Partially matrix supported @1.0-1.2, few m-c angular gravel		\		\	0.0	1330

No samples taken from 0-63 ft. Descriptions taken from SB915-MW-89BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-89D
Client: Honeywell	**Sampler: 2-3" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/14/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/16/2011**
Boring Company: Parrat-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
38	20	40	28-17-14-13	2.0/2.0	31	0-0.3 SAA. 0.3-2.0 Medium dense, saturated, Brownish Gray (5YR 4/1), f-m SAND, trace silt	fm Sand and Silt	\ \	0.0	1335
40	21	42	10-10-12-15	2.0/1.7	32	0-1.7 Dense, saturated, brownish gray (5YR 4/1), f-m SAND, trace silt.		\ \	0.0	1410
42	22	44	20-16-24-35	2.0/1.8	40	0-1.8 SAA, decrease in m sand, slight increase in silt content.		\ \	0.0	1414
44	23	46	5-12-16-17	2.0/1.5	28	0-1.5 SAA, band of silt with little f sand from 0.6-0.7		\ \	0.0	1442
46	24	48	14-16-18-20	2.0/1.8	34	0-1.8 SAA, no bands of silt, two large pieces of angular gravel at 1.5 and 1.7		\ \	0.0	1445
48	25	50	20-16-14-18	2.0/1.8	30	0-0.8 Dense, wet, brownish gray (5YR 4/1) m-c SAND, little f sand, few f-m gravel, trace silt. 0.8-1.8 Stiff, saturated, brownish gray (5YR 4/1), f sand, little c sand and silt.	mc Sand	\ \	0.0	1450
50	26	52	9-18-20-21	2.0/1.8	38	0-1.8 SAA (0.8-1.8)		\ \	0.0	1531
52	27	54	24-26-20-22	2.0/1.3	46	0-1.3 Dense, saturated, brownish gray (5YR 4/1), f-m SAND, little c sand, trace silt.	f Sand and Silt	\ \	0.0	1537
54	28	56	17-14-16-21	2.0/1.7	30	0-1.7 SAA, increase in c sand, trace f sand and silt.		\ \	0.0	1605
56	29	58	18-22-24-22	2.0/1.8	46	0-1.8 Dense, saturated, brownish gray (5YR 4/1) m-c SAND few f-m subrounded gravel, trace f sand.		\ \	0.0	1610
58	30	60	14-17-19-32	2.0/2.0	36	0-2.0 SAA, fining downward to f-m brownish gray (5YR 4/1) SAND, trace m rounded gravel throughout.			0.0	1615
60	31	62	16-12-11-13	2.0/1.6	23	0-1.6 Dense, saturated, brownish gray (5YR 4/1), f-m SAND, few c sand and trace silt from 0.0-0.3.			0.0	10/8/10 745
63	2	65	60-50-35-32	2/0.75	85	Dense, saturated, brownish gray (5YR 4/1), f-m SAND, few c sand and trace silt.		=	0.0	830
65	3	67	11-18-32-67	2.0/2.0	50	Dense, saturated, brownish gray (5YR 4/1), f-m SAND, few c sand and trace silt.		=	0.0	845
67	4	69	33-37-51-58	2.0/2.0	88	Dense, saturated, brownish gray (5YR 4/1), f-m SAND, few c sand and trace silt.		=	0.0	915
69	5	71	6-12-15-26	2.0/2.0	27	Dense, saturated, brownish gray (5YR 4/1), f-m SAND, few c sand and trace silt.		=	0.0	950
71	6	73	12-23-34-38	2.0/2.0	57	Dense, saturated, brownish gray (5YR 4/1), f-m SAND, few c sand, little medium gravel, trace silt.		=	0.0	1010
						End of Boring at 73 ft bgs				

No samples taken from 0-63 ft. Descriptions taken from SB915-MW-89BR. Well construction details: Screen (10 slot) - 63-73 ft., Sand pack - 61-73 ft., Sand Choke - 58-61 ft., Grout - 0-58 ft.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-89I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/11/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/11/2011**
Boring Company: Parrat-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Jason Newton		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	5-8-8-9	2.0/1.8	16	0-1.8 Very stiff, dry, Moderate Brown (5YR 3/4) SILT matrix supporting m-c sand and f-m gravel	Fill	\		\	0.0	925
2	2	4	9-12-5-6	2.0/1.8	17	0-0.8 SAA. 0.8-1.8 Medium, dry, Grayish Brown (5YR 3/2) SILT, trace f sand.	4'	\		\	0.0	930
4	3	6	7-7-8-6	2.0/0.5	15	0-0.5 Stiff, dry, Moderate Brown (5YR 3/4) SILT, some clay, moderately cohesive	Silt, some Clay	\		\	0.0	1015
6	4	8	7-8-9-9	2.0/0.8	17	0-0.8 SAA, slight decrease in clay content		\		\	0.0	1017
8	5	10	8-7-6-5	2.0/1.3	13	0-1.3 SAA, trace clay content	Silt	\		\	0.0	1020
10	6	12	3-3-3-3	2.0/1.3	6	0-1.3 SAA		\		\	0.0	1037
12	7	14	3-4-5-5	2.0/1.5	9	0-1.5 SAA		\		\	0.0	1040
14	8	16	8-9-4-5	2.0/0.4	13	0-0.4 SAA, wet		\		\	0.0	1056
16	9	18	4-5-7-8	2.0/1.5	12	0-1.5 SAA, little f sand		\		\	0.0	1058
18	10	20	3-3-4-6	2.0/2.0	7	0-2.0 SAA	20'	\		\	0.0	1102
20	11	22	9-18-28-30	2.0/1.3	46	0-0.3 SAA, some f sand. 0.3-0.5 Medium, wet, Brownish Gray (5YR 4/1)f-m SAND, little silt, few m-c subrounded gravel. 0.5-1.3 stiff, wet, Light Olive Gray (5Y 6/1) and Moderate Brown (5YR 4/1), SILT matrix, little f-m sand, few f-m angular gravel	Silt, fm Sand, Gravel	\		\	0.0	1115
22	12	24	30-20-16-22	2.0/1.3	36	0-1.3 Stiff, wet, Greenish Gray (5GY 6/1) and Moderate Brown (5YR 4/4) SILT matrix, little f-m sand, few f-m angular gravel		\		\	0.0	1120
24	13	26	10-7-4-4	2.0/1.1	11	0-1.1 Soft, saturated, Brownish Gray (5YR 4/1) f-m SAND, some silt, little f-m gravel	fm Sand and Silt	\		\	0.0	1235
26	14	28	4-4-3-3	2.0/1.0	7	0-1.0 SAA Greenish Gray (5GY 6/1) and Brownish Gray (5YR 4/1)		\		\	0.0	1240
28	15	30	6-5-4-4	2.0/1.0	9	0-1.0 SAA increase in f-m sand content. Few thin bands (0.1 ft) of higher silt and trace clay content		\		\	0.0	1243
30	16	32	6-7-5-9	2.0/0.4	12	0-0.4 SAA		\		\	0.0	1306
32	17	34	4-5-4-7	2.0/1.4	9	0-1.4 SAA, trace gravel		\		\	0.0	1310
34	18	36	5-5-5-5	2.0/0.8	10	0-0.8 Loose, saturated, Brownish Gray (5YR 4/1) and Greenish Gray (5GY 6/1) m-c SAND, little f-m gravel, trace silt	mc Sand	\		\	0.0	1328
36	19	38	7-8-13-14	2.0/1.5	21	0-1.5 Medium dense, saturated, Brownish Gray (5YR 4/1) m-c SAND, varying amounts of Greenish Gray (5GY 6/1) and Moderate Brown (5YR 4/4) SILT throughout. Partially matrix supported @1.0-1.2, few m-c angular gravel		\		\	0.0	1330

No samples taken from 0-43 ft. Descriptions taken from SB915-MW-89BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-89I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/11/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/11/2011**
Boring Company: Parrat-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Jason Newton		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
38	20	40	28-17-14-13	2.0/2.0	31	0-0.3 SAA. 0.3-2.0 Medium dense, saturated, Brownish Gray (5YR 4/1), f-m SAND, trace silt	fm Sand and Silt		0.0	1335
40	21	42	10-10-12-15	2.0/1.7	32	0-1.7 Dense, saturated, brownish gray (5YR 4/1), f-m SAND, trace silt.	43'		0.0	1410
43	2	45	15-31-52-55	2.0/2.0	83	0-1.2 Extremely dense, damp, olive gray (5Y 4/1), m-c sand and f-m gravel, trace silt. 1.2-2.0 SAA, no gravel, f-m sand, trace silt.	Sand & Gravel	=	NA	930
45	3	47	35-63-50/0.2	2.0/2.0	>113	0-2.0 Extremely dense, damp, brownish gray (5YR 4/1), f-m gravel and m-c sand, trace silt.		=	NA	1000
47	4	49	17-19-27-52	2.0/2.0	46	0-0.3 SAA. 0.3-2.0 Dense, damp to moist, olive gray (5Y 4/1), m-c sand, little to trace silt.		=	NA	1035
49	5	51	22-26-28-32	2.0/2.0	54	0-2.0 Very dense, f-c sand, little f-m gravel, trace coarse gravel, some to little silt.		=	NA	1050
51	6	53	25-36-32-39	2.0/1.7	68	0.3-2.0 Very dense, damp to moist, m-c sand, some f-m gravel, trace silt.		=	NA	1125
						End of boring at 53 ft bgs				
						Well Construction Details				
						Screen: 43-53 ft				
						Riser: +2-43 ft				
						Sand Pack: 41-53 ft				
						Sand Choke: 38-41 ft				
						Grout: 0-38 ft				

No samples taken from 0-43 ft. Descriptions taken from SB915-MW-89BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-89S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/14/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/14/2011**
Boring Company: Parrat-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	5-8-8-9	2.0/1.8	16	0-1.8 Very stiff, dry, Moderate Brown (5YR 3/4) SILT matrix supporting m-c sand and f-m gravel	Fill	\ \	0.0	925
2	2	4	9-12-5-6	2.0/1.8	17	0-0.8 SAA. 0.8-1.8 Medium, dry, Grayish Brown (5YR 3/2) SILT, trace f sand.	4'	\ \	0.0	930
4	3	6	7-7-8-6	2.0/0.5	15	0-0.5 Stiff, dry, Moderate Brown (5YR 3/4) SILT, some clay, moderately cohesive	Silt, some Clay	\ \	0.0	1015
6	4	8	7-8-9-9	2.0/0.8	17	0-0.8 SAA, slight decrease in clay content		\ \	0.0	1017
8	5	10	8-7-6-5	2.0/1.3	13	0-1.3 SAA, trace clay content	Silt	\ \	0.0	1020
10	6	12	3-3-3-3	2.0/1.3	6	0-1.3 SAA		\ \	0.0	1037
12	7	14	3-4-5-5	2.0/1.5	9	0-1.5 SAA		\ \	0.0	1040
14	8	16	8-9-4-5	2.0/0.4	13	0-0.4 SAA, wet		\ \	0.0	1056
16	9	18	4-5-7-8	2.0/1.5	12	0-1.5 SAA, little f sand			0.0	1058
18	10	20	3-3-4-6	2.0/2.0	7	0-2.0 SAA	20'		0.0	1102
20	11	22	9-18-28-30	2.0/1.3	46	0-0.3 SAA, some f sand. 0.3-0.5 Medium, wet, Brownish Gray (5YR 4/1)f-m SAND, little silt, few m-c subrounded gravel. 0.5-1.3 stiff, wet, Light Olive Gray (5Y 6/1) and Moderate Brown (5YR 4/1), SILT matrix, little f-m sand, few f-m angular gravel	Silt, fm Sand, Gravel		0.0	1115
22	2	24	28-33-50/0.5	2.0/1.0	>83	Loose, dry to moist, moderate yellowish brown (10Y 5/4), little silt and crushed stone, all sluff material.		=	0.0	NA
24	3	26	26-18-24-22	2.0/0.7	42	SAA, sluff.		=	0.0	NA
26	4	28	10-8-7-6	2.0/1.0	15	Wet, medium dense, light brownish gray (5YR 6/1) to greenish gray (5GY 6/1), m-c sand, some fine rounded gravel.	Sand & Gravel	=	0.0	NA
28	5	30	9-8-5-5	2.0/1.0	13	Wet, dense, light brownish gray (5YR 6/1) to greenish gray (5GY 6/1), silt, some fine sand, trace coarse gravel.		=	0.0	NA
30	6	32	5-8-5-5	2.0/1.1	13	Wet, medium dense to loose, light brownish gray (5YR 6/1) to greenish gray (5GY 6/1), m-c sand, some fine rounded gravel, little silt.		=	0.0	NA
						End of boring at 32 ft bgs				
						Well construction details:				
						Screen: 22-32 ft				
						Riser: +2-22 ft				
						Sand pack: 20-32 ft				
						Sand choke: 17-20 ft				
						Grout: 0-17 ft				

No samples taken from 0-22 ft. Descriptions taken from SB915-MW-89BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-89SR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/14/2011
File No.: 1163/46698	**Fall:** 30"	**End Date:** 2/14/2011
Boring Company: Parrat-Wolff **Foreman:** Joe Percy **OBG Geologist:** Nate Vogan		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	5-8-8-9	2.0/1.8	16	0-1.8 Very stiff, dry, Moderate Brown (5YR 3/4) SILT matrix supporting m-c sand and f-m gravel	Fill	\ \	0.0	925
2	2	4	9-12-5-6	2.0/1.8	17	0-0.8 SAA. 0.8-1.8 Medium, dry, Grayish Brown (5YR 3/2) SILT, trace f sand.	4'	\ \	0.0	930
4	3	6	7-7-8-6	2.0/0.5	15	0-0.5 Stiff, dry, Moderate Brown (5YR 3/4) SILT, some clay, moderately cohesive	Silt, some Clay		0.0	1015
6	4	8	7-8-9-9	2.0/0.8	17	0-0.8 SAA, slight decrease in clay content	16'		0.0	1017
8	5	10	8-7-6-5	2.0/1.3	13	0-1.3 SAA, trace clay content	Silt		0.0	1020
10	2	12	8-5-5-5	2.0/1.4	10	Dense, moist, light brown (5YR 5/6) to moderate yellowish brown (10YR 5/4); silt, little fine sand.	Silt & Fine Sand	=	0.0	NA
12	3	14	5-3-5-5	2.0/2.0	8	SAA		=	0.0	NA
14	4	16	5-5-6-4	2.0/2.0	11	SAA		=	0.0	NA
16	5	18	5-7-6-6	2.0/0.0	13	No recovery, large 3 in. cobble lodged in spoon nose.		=	0.0	NA
18	6	20	7-8-8-6	2.0/1.2	16	SAA (14-16 ft), becoming more wet and medium dense with depth.		=	0.0	NA

End of boring at 20 ft bgs

Well construction details:
Screen: 10-20 ft
Riser: +2-10 ft

Sand pack: 8-20 ft
Sand choke: 5-8 ft
Grout: 0-5 ft

No samples taken from 0-10 ft. Descriptions taken from SB915-MW-89BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-90BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/18/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 11/3/2010
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: David Lyons/Steve Laramie/Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: Paul Freyer/C. Yuri Veliz/Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	9-13-18-30*	2.0/2.0	31*	0-0.4 Dark yellowish brown (10YR 4/2), damp, med. dense f-m SAND and SILT, some subangular to subrounded gravel, trace roots and plant fragment decreasing w/ depth. 0.4-2.0 Yellowish brown (10YR 5/2), damp, dense, well graded, f-m SAND, some silt and f-m gravel, little coarse gravel.	FMC Sand	\		\	0.2	1148
2	2	4	30-49-28-23*	2.0/1.5	77*	0-1.1 Yellowish brown (10YR 5/2), damp to dry, very dense, well graded f-m SAND, some silt and f sand, some f-m gravel, trace c gravel. 1.1-1.5 Brownish gray (5YR 4/1), damp, very dense, well graded SILT and F SAND matrix supporting some c sand and f-m gravel, trace c gravel.		\		\	0.1	1153
4	3	5.5	11-17-21*	1.5/1.2	NA*	0-0.4 SAA. 0.4-1.2 Yellowish brown (10YR 5/2), dry, dense, well-graded, f-m SAND, some f-m gravel, little silt and c sand, trace c gravel.		\		\	0.1	1401
5.5	4	7	9-11-13*	1.5/1.4	NA*	0-1.4 Yellowish brown (10YR 5/2), med. dense, well graded, f-m SAND, little m-f gravel, silt and coarse sand, trace c gravel.		\		\	0.0	1406
7	5	9	19-12-21-18*	2.0/1.6	33*	0-1.6 Yellowish brown (10YR 5/2) w/ fine pale olive (10Y 6/2) and dark reddish brown (10R 3/4) flecks common, damp, dense, well graded, f-m-c SAND, some f-m angular to subrounded gravel, little to some silt, trace c gravel.		\		\	0.0	1456
9	6	11	15-19-21-21*	2.0/1.6	40*	0-1.6 SAA.		\		\	0.0	1517
11	7	13	14-16-19-22*	2.0/1.7	35*	0-1.7 Yellowish brown (10YR 5/2) w/ fine pale olive (10Y 6/2) and dark reddish brown (10R 3/4) flecks common, damp, dense, well graded, f-m-c SAND, some angular to subrounded f-m gravel, little silt, trace c gravel, shale fragments.		\		\	0.0	1524
13	8	15	18-20-19-16*	2.0/1.65	39*	0-1.65 SAA, saturated.		\		\		10/19/10
15	9	17	21-18-14-12*	2.0/1.5	32*	0-1.5 SAA, damp.		\		\	0.0	0935
17	10	19	10-8-10-9*	2.0/1.5	18*	0-1.5 SAA, damp.		\		\	0.0	0950

* Denotes the use of a three in. split spoon, subsequent "N-value" is not a true "N-value" but a sum of the blows for the middle 12 in of a sampling interval.

+ Sampler was driven 18" to prevent over packing within the HSA. HSA (3 7/8") to 7' bg.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-90BR
Client: Honeywell	**Sampler: 2-3" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 10/18/2010**
File No.: 1163/46698	**Fall: 30"**	**End Date: 11/3/2010**
Boring Company: GeoLogic, Inc.		**Screen = \ Grout**
Foreman: David Lyons/Steve Laramie/Scott Breeds		**Riser Sand Pack**
OBG Geologist: Paul Freyer/C. Yuri Veliz/Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
19	11	21	11-8-8-9*	2.0/1.25	16*	0-1.25 SAA, trace f-m-c gravel, damp.		\		\	0.0	1030
21	12	23	10-8-8-9*	2.0/1.25	16*	0-1.25 SAA, trace f-m-c gravel, damp.		\		\	0.0	1038
23	13	25	15-13-18-22*	2.0/1.4	31*	0-1.4 Yellowish brown (10YR 5/2) w/ pale olive (10Y 6/2) and dark reddish brown (10R 3/4) flecks common, damp, dense f-m-c sand, some angular to subrounded f-m gravel and silt, trace c gravel, shale fragments.	FMC Sand	\		\	0.0	1114
25	14	27	20-11-14-20*	2.0/1.3	25*	0-1.3 Pale olive (10Y 6/2) w/ dark reddish brown (10R 3/4), fewer flecks, saturated, dense, c sand and f-m subrounded gravel, little silt, trace c gravel, shale fragments.	C Sand FM Gravel	\		\	0.0	1149
27	15	29	10-14-10-9*	2.0/1.3	24*	0-1.3 SAA.		\		\	0.0	1159
29	16	31	23-12-16-19*	2.0/1.3	28*	0-1.3 Dark yellowish brown (10YR 4/2) and pale olive (10Y 6/2), saturated, dense m-c		\		\	0.0	1320
31	17	33	18-14-8-9*	2.0/1.5	22*	0-1.5 Pale olive (10Y 6/2), wet, med. dense, c SAND and f-m subrounded gravel, some f-m sand and little silt, shale fragments.	MC Sand FM Gravel	\		\	0.0	1328
33	18	35	41-21-17-20*	2.0/1.3	38*	0-1.3 Greenish black (5G 2/1), damp to wet, dense f-m GRAVEL, some c sand, little f-m sand and silt, trace c gravel.	FM Gravel	\		\	0.0	1410
35	19	37	14-23-22-21*	2.0/1.4	45*	0-1.4 Greenish black (5G 2/1), wet, dense, f-m subrounded GRAVEL, some c sand and little f-m sand and silt, trace c gravel, shale fragments.		\		\	0.0	1450
37	20	39	21-47-43-29*	2.0/1.8	50*	0-1.8 SAA, wet to saturated, very dense, some pockets of cemented c sand and f-m gravel.		\		\	0.7	1500
39	21	41	105-70-62-47*	2.0/1.5	132*	0-1.5 SAA, wet, very dense.		\		\	0.0	1600
41	22	43	30-45-28-20*	2.0/1.5	73*	0-1.5 SAA.		\		\	0.0	1615
43	23	45	45-19-13-14*	2.0/1.4	32*	0-1.4 Dark greenish gray (5GY 4/1), wet, dense, f-m GRAVEL some silt, little f-m-c sand, trace c gravel, shale fragments, few flecks.		\		\	0.0	10/20/10 0940
45	24	47	17-25-22-15*	2.0/1.4	47*	0-1.4 SAA.		\		\	0.0	1019
47	25	49	15-12-12-12*	2.0/1.8	24*	0-1.8 SAA.		\		\	0.0	1025

* Denotes the use of a Three in. split spoon, subsequent "N-value" is not a true "N-value" but a sum of the blows for the middle 12 in of a sampling interval.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-90BR
Client: Honeywell	Sampler: 2-3" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: 140-lb drop	Start Date: 10/18/2010
File No.: 1163/46698	Fall: 30"	End Date: 11/3/2010
Boring Company: GeoLogic, Inc.		Screen = \ Grout
Foreman: David Lyons/Steve Laramie/Scott Breeds		Riser Sand Pack
OBG Geologist: Paul Freyer/C. Yuri Veliz/Nate Vogan		Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
49	26	51	13-9-9-8*	2.0/1.6	18*	0-1.6 Dark greenish gray (5GY 4/1), med. dense, saturated, f-m GRAVEL, some m-c sand, silt, little f sand, trace c gravel, shale fragments, few flecks.		\ \	0.0	1118
51	27	53	8-9-11-26*	2.0/1.8	20*	0-1.8 Dark greenish gray (5GY 4/1), med. dense, saturated, f GRAVEL and c sand, some f-m sand and silt, little m-c gravel, trace c gravel, shale fragments, few flecks.	F Gravel C Sand	\ \	0.0	1125
53	28	55	150/0.4*	2.0/0.2	>150*	Shale fragment. Roller bit to 55' bg.		\ \	0.0	1320
55	29	57	100/0.4*	2.0/0.0	>100*	No recovery. Roller bit to 57' bg.		\ \	-	1330
57	30	59	74/0.5*	2.0/0.2	>74*	Fragments of cemented SAND and GRAVEL particles of shale, quartzite. Roller bit to 59 ft bgs.	cemented sand and gravel	\ \	-	1445
59	31	61	118/0.5**	2.0/0.2	>118**	Fragments of cemented SAND and GRAVEL with loose f gravel and c sand. Roller bit to 63 ft bgs.		\ \	0.0	1645
63	32	65	22-25-27-24	2.0/1.5	52	0-1.5 Olive gray (5Y4/1), saturated, med. dense f-m SAND, some c sand, little silt, trace m-c gravel.	FM Sand	\ \	0.0	10/21/10 940
65	33	67	32-42-36-32	2.0/1.5	78	0-1.5 Olive gray (5Y4/1), saturated, dense, c SAND and f GRAVEL, some f-m sand, little silt, trace m gravel.	C Sand F Gravel	\ \	0.0	1500
67	34	69	57-54-50/0.3	1.3/1.3	104	0-1.3 SAA, wet.		\ \	0.0	1510
69	35	71	35-50/0.2	0.7/0.6	>50	0-0.6 Pale olive (10Y 6/2) and dark reddish brown (10R 3/4), wet, dense f SAND and SILT, little c sand and clay, trace f gravel.	F Sand Silt	\ \	0.0	1630
71	36	73	100/0.1	0.1/0.0	>100	No recovery. Roller bit to 73 ft bgs.		\ \		10/22/10 0840
73	37	75	235/0.5	0.5/0.4	>235	0-0.4 Brownish gray (5YR 4/1), saturated, dense m GRAVEL, some f gravel and f-m sand, little silt, shale fragments.		\ \	0.0	0910
75	38	77	75-69-33-35	2.0/1.5	102	0-1.5 Grayish olive (10Y 4/2), saturated, very dense, m angular GRAVEL, some silt and f-m sand.	M Gravel	\ \	0.0	1030
77	39	79	30-90-70-55	2.0/1.5	160	0-1.5 Grayish olive (10Y 4/2), wet, dense, m-c angular GRAVEL, some silt and clay, little f-m sand.		\ \	0.0	1330
79	40	81	39-34-50-35	2.0/1.5	94	0-1.5 Pale brown (5YR 5/2), saturated, very dense, f-m GRAVEL, some m-c sand and silt, little c gravel, shale fragments.	FM Gravel	\ \	0.0	1200
81	41	83	50/0.1	0.1/0.0	>50	No recovery. Roller bit to 83 ft bgs.		\ \		1215

* Three inch spoon

** Switch to Two inch spoon, casing diameter reduction from 4 in. to 3 in.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-90BR
Client: Honeywell	Sampler: 2-3" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: 140-lb drop	Start Date: 10/18/2010
File No.: 1163/46698	Fall: 30"	End Date: 11/3/2010
Boring Company: GeoLogic, Inc.		Screen = \ Grout
Foreman: David Lyons/Steve Laramie/Scott Breeds		Riser Sand Pack
OBG Geologist: Paul Freyer/C. Yuri Veliz/Nate Vogan		Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
83	42	85	100/0.5	0.5/0.5	>100	0-0.5 Olive gray (5Y 4/1), wet, dense f-m SAND and SILT, some c sand, little f-m gravel.	FM Sand Silt	\ \	0.0	1355
85	43	87	100/0.4	0.4/0.3	>100	0-0.3 Dark reddish brown (10R 3/4), hard, shale fragment and pale brown (5YR 5/2), wet, dense, f-m SAND and SILT		\ \	0.0	1445
87	44	89	100/0.2	0.2/0.2	>100	0-0.2 Olive gray (5Y 4/1), wet, dense f-m GRAVEL, some f-m-c sand, little silt. Roller bit to 90 ft bgs.		\ \	0.0	1530
90	45	92	19-40-41-21	2.0/1.5	81	0-1.0 Grayish olive (10Y 4/2), wet, dense f-m GRAVEL, some m-c sand, little silt and f sand. 1.0-1.5 Grayish olive (10Y 4/2), damp, dense, shale fragments.		\ \	0.0	1630
92	46	94	20-38-43-35	2.0/1.2	81	0-1.2 Grayish olive (10Y 4/2), wet, dense f-m GRAVEL, some silt, m-c sand, trace c gravel, shale fragments.		\ \	0.0	11/3/10 1010
94	47	96	44-34-32-40	2.0/1.3	66	0-1.3 SAA, no odor noticed.	FM Gravel	\ \	9.7	1114
96	48	98	32-30-32-30	2.0/1.5	62	0-1.5 SAA, moist, few red mottling last 0.5 ft bgs.		\ \	1.3	1125
98	49	100	30-32-28-40	2.0/1.3	60	0-1.3 SAA, damp to moist.	101.5'	\ \	0.0	1320
100	50	102	37-35-30-42	2.0/1.4	65	0-1.0 SAA, damp to moist. 1.0-1.4 Dark reddish brown (10R 3/4), dry to damp, very hard, SILT, some f sand, little f. gravel (matrix supported gravel).	Till	\ \	0.0	1407
102	51	104	28-39-55-43	2.0/0.8	94	0-0.8 Dark reddish brown (10R 3/4), damp, very hard SILT, some clay and f sand, little f gravel (matrix supported gravel).		\ \	0.0	1535
104	52	104.9	58-100/0.4	0.9/0.8	>100	0-0.8 SAA.		\ \	0.0	1600
107	53	109	NA**	2.0/1.2	NA**	Drill to 107 to install 5" casing, no samples 104.9-107. Resume sampling at 107. 0-1.2 Very hard, moist, dark reddish brown (10R 3/4), silt, some clay marix supporting little f-m angular gravel and m-c sand, rew m-c angular gravel.	112.5'	\ \		1/19/11 1400
109	54	114	NA**	5.0/4.5	NA**	0-3.5 SAA. 3.5-4.5 Dark greenish gray (5G 4/1) shale, highly weathered zone 3.6-4.1. Drilled to 116.5, 4 in steel casing installed to 116.5. Start bedrock coring through 4 in steel casing. See core log for descriptions.	Bedrock	\ \		1500
116	55	118	NA**	NA	NA**	Shale				
118	56	120	NA**	NA	NA**	Shale				

** HQ Core Barrel

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-90BR
Client: Honeywell	**Sampler:** 2-3" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/18/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 11/3/2010
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: David Lyons/Steve Laramie/Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: Paul Freyer/C. Yuri Veliz/Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
120	57	122	NA**	NA	NA**	Shale		=		
122	58	124	NA**	NA	NA**	Shale		=		
124	59	126	NA**	NA	NA**	Shale		=		
126	60	128	NA**	NA	NA**	Shale		=		
128	61	129.5	NA**	NA	NA**	Shale		=		
						End of Boring at 129.5 ft bgs				
						Well Installation Details:				
						Screen (10 slot) 119.5-129.5 ft				
						Riser: +2-119.5 ft				
						Sand Pack: 117.5-129.5 ft				
						Sand Choke: 114.5-117.5 ft				
						Grout: 0-114.5 ft				

** HQ Core Barrel

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13221

CORE LOG

Hole No.: SB915-MW-90BR | Job No.: 1163\46698

Sheet 1 of 1 | Project: Wastebed 13 SCA

Formation Member Unit	Run No. Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1 116 - 121.5	13:47 12 14:47	116 122	SHALE; greenish gray (5G 6/1); fine grained silt and clay, fissle, horizontal thinnly bedded, extremely fractured; gypsum and iron staining. Lost 50 gallons water.	4.6	92%	0%
	2 121.5 - 125.5	15:15	126	SHALE; greenish gray (5G 6/1) with medium dark gray (N4) after 124.6; fine grained, silt and clay sized, fissle, horizontal thin bedding; extremely fractured 121.5-123.4, some clay in fractures; gypsum rich zones 123.9-125.5; becoming more competent with depth. Lost 50 gallons water.	3.9	98%	23%
	3 125.5 - 129.5	8:55 12 9:43	130	SHALE; medium dark gray (N4) becoming greenish gray (5G 6/1)at 126.4, fine (silt and clay) grained, fissle, horizontal thin bedding; exremely fractured 127.3-127.5 and 127.9-128.1; iron staining in fractures, gypsum zones 125.5-126, 127.7, 128.3.	4	100%	53%
				End of core hole at 129.5 See boring log for well construction details.			

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-90I
Client: Honeywell	**Sampler: 2-3" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: Auto**	**Start Date: 2/7/2011**
File No.: 1163/46698	**Fall: NA**	**End Date: 2/7/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chapman		**Riser Sand Pack**
OBG Geologist: Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	9-13-18-30*	2.0/2.0	31*	0-0.4 Dark yellowish brown (10YR 4/2), damp, med. dense f-m SAND and SILT, some subangular to subrounded gravel, trace roots and plant fragment decreasing w/ depth. 0.4-2.0 Yellowish brown (10YR 5/2), damp, dense, well graded, f-m SAND, some silt and f-m gravel, little coarse gravel.	FMC Sand	\ \	0.2	1148
2	2	4	30-49-28-23*	2.0/1.5	77*	0-1.1 Yellowish brown (10YR 5/2), damp to dry, very dense, well graded f-m SAND, some silt and f sand, some f-m gravel, trace c gravel. 1.1-1.5 Brownish gray (5YR 4/1), damp, very dense, well graded SILT and F SAND matrix supporting some c sand and f-m gravel, trace c gravel.		\ \	0.1	1153
4	3	5.5	11-17-21*	1.5/1.2	NA*	0-0.4 SAA. 0.4-1.2 Yellowish brown (10YR 5/2), dry, dense, well-graded, f-m SAND, some f-m gravel, little silt and c sand, trace c gravel.		\ \	0.1	1401
5.5	4	7	9-11-13*	1.5/1.4	NA*	0-1.4 Yellowish brown (10YR 5/2), med. dense, well graded, f-m SAND, little m-f gravel, silt and coarse sand, trace c gravel. Sampler was driven 18" to prevent over packing within the HSA. HSA (3 7/8") to 7' bg.		\ \	0.0	1406
7	5	9	19-12-21-18*	2.0/1.6	33*	0-1.6 Yellowish brown (10YR 5/2) w/ fine pale olive (10Y 6/2) and dark reddish brown (10R 3/4) flecks common, damp, dense, well graded, f-m-c SAND, some f-m angular to subrounded gravel, little to some silt, trace c gravel.		\ \	0.0	1456
9	6	11	15-19-21-21*	2.0/1.6	40*	0-1.6 SAA.		\ \	0.0	1517
11	7	13	14-16-19-22*	2.0/1.7	35*	0-1.7 Yellowish brown (10YR 5/2) w/ fine pale olive (10Y 6/2) and dark reddish brown (10R 3/4) flecks common, damp, dense, well graded, f-m-c SAND, some angular to subrounded f-m gravel, little silt, trace c gravel, shale fragments.		\ \	0.0	1524
13	8	15	18-20-19-16*	2.0/1.65	39*	0-1.65 SAA, saturated.		\ \		10/19/10
15	9	17	21-18-14-12*	2.0/1.5	32*	0-1.5 SAA, damp.		\ \	0.0	0935

* Denotes the use of a Three in. split spoon, subsequent "N-value" is not a true "N-value" but a sum of the blows for the middle 12 in of a sampling interval. No samples taken from 0-42 ft. Descriptions taken from SB915-MW-90BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-90I
Client: Honeywell	**Sampler: 2-3" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: Auto**	**Start Date: 2/7/2011**
File No.: 1163/46698	**Fall: NA**	**End Date: 2/7/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chapman		**Riser \ Sand Pack**
OBG Geologist: Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
17	10	19	10-8-10-9*	2.0/1.5	18*	0-1.5 SAA, damp.		\ \	0.0	0950
19	11	21	11-8-8-9*	2.0/1.25	16*	0-1.25 SAA, trace f-m-c gravel, damp.		\ \	0.0	1030
21	12	23	10-8-8-9*	2.0/1.25	16*	0-1.25 SAA, trace f-m-c gravel, damp.		\ \	0.0	1038
23	13	25	15-13-18-22*	2.0/1.4	31*	0-1.4 Yellowish brown (10YR 5/2) w/ pale olive (10Y 6/2) and dark reddish brown (10R 3/4) flecks common, damp, dense f-m-c sand, some angular to subrounded f-m gravel and silt, trace c gravel, shale fragments.	FMC Sand	\ \	0.0	1114
25	14	27	20-11-14-20*	2.0/1.3	25*	0-1.3 Pale olive (10Y 6/2) w/ dark reddish brown (10R 3/4), fewer flecks, saturated, dense, c sand and f-m subrounded gravel, little silt, trace c gravel, shale fragments.	C Sand FM Gravel	\ \	0.0	1149
27	15	29	10-14-10-9*	2.0/1.3	24*	0-1.3 SAA.		\ \	0.0	1159
29	16	31	23-12-16-19*	2.0/1.3	28*	0-1.3 Dark yellowish brown (10YR 4/2) and pale olive (10Y 6/2), saturated, dense m-c SAND and f-m subrounded gravel, some silt, trace c gravel, shale fragments.	MC Sand FM Gravel	\ \	0.0	1320
31	17	33	18-14-8-9*	2.0/1.5	22*	0-1.5 Pale olive (10Y 6/2), wet, med. dense, c SAND and f-m subrounded gravel, some f-m sand and little silt, shale fragments.		\ \	0.0	1328
33	18	35	41-21-17-20*	2.0/1.3	38*	0-1.3 Greenish black (5G 2/1), damp to wet, dense f-m GRAVEL, some c sand, little f-m sand and silt, trace c gravel.	FM Gravel	\ \	0.0	1410
35	19	37	14-23-22-21*	2.0/1.4	45*	0-1.4 Greenish black (5G 2/1), wet, dense, f-m subrounded GRAVEL, some c sand and little f-m sand and silt, trace c gravel, shale fragments.		\ \	0.0	1450
37	20	39	21-47-43-29*	2.0/1.8	50*	0-1.8 SAA, wet to saturated, very dense, some pockets of cemented c sand and f-m gravel.			0.7	1500
39	21	41	105-70-62-47*	2.0/1.5	132*	0-1.5 SAA, wet, very dense.			0.0	1600
42	2	44	NA	2.0/0.4	NA	Dark greenish gray (5GY 4/1), wet, dense, f-m GRAVEL some silt, little f-m-c sand, trace c gravel, shale fragments, few flecks.	Sand and Gravel	=	0.0	2/7/11 1100
44	3	46	NA	2.0/0.8	NA	SAA		=	0.0	1105
46	4	48	NA	2.0/1.0	NA	SAA		=	0.0	1120
48	5	50	NA	2.0/1.0	NA	SAA		=	0.0	1125
50	6	52	NA	2.0/1.0	NA	SAA		=	0.0	1140
						End of Boring at 52 ft. bgs				

* Denotes the use of a Three inch spoon, subsequent Where the blow counts are NA and the N value is NA an auto hammer was used. No samples taken from 0-42 ft. Descriptions taken from SB915-MW-90BR.

Well construction details: Screen (10 slot) - 42-52 ft, Riser - +2-42 ft, Sand Pack - 40-52 ft, Sand Choke - 37-40 ft, Grout - 0-37 ft

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-90S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/13/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/14/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	9-13-18-30*	2.0/2.0	31*	0-0.4 Dark yellowish brown (10YR 4/2), damp, med. dense f-m SAND and SILT, some subangular to subrounded gravel, trace roots and plant fragment decreasing w/ depth. 0.4-2.0 Yellowish brown (10YR 5/2), damp, dense, well graded, f-m SAND, some silt and f-m gravel, little coarse gravel.	FMC Sand	\ \	0.2	1148
2	2	4	30-49-28-23*	2.0/1.5	77*	0-1.1 Yellowish brown (10YR 5/2), damp to dry, very dense, well graded f-m SAND, some silt and f sand, some f-m gravel, trace c gravel. 1.1-1.5 Brownish gray (5YR 4/1), damp, very dense, well graded SILT and F SAND matrix supporting some c sand and f-m gravel, trace c gravel.		\ \	0.1	1153
4	3	5.5	11-17-21*	1.5/1.2	NA*	0-0.4 SAA. 0.4-1.2 Yellowish brown (10YR 5/2), dry, dense, well-graded, f-m SAND, some f-m gravel, little silt and c sand, trace c gravel.		\ \	0.1	1401
5.5	4	7	9-11-13*	1.5/1.4	NA*	0-1.4 Yellowish brown (10YR 5/2), med. dense, well graded, f-m SAND, little m-f gravel, silt and coarse sand, trace c gravel. Sampler was driven 18" to prevent over packing within the HSA. HSA (3 7/8") to 7' bg.		\ \	0.0	1406
7	5	9	19-12-21-18*	2.0/1.6	33*	0-1.6 Yellowish brown (10YR 5/2) w/ fine pale olive (10Y 6/2) and dark reddish brown (10R 3/4) flecks common, damp, dense, well graded, f-m-c SAND, some f-m angular to subrounded gravel, little to some silt, trace c gravel.		\ \	0.0	1456
9	6	11	15-19-21-21*	2.0/1.6	40*	0-1.6 SAA.		\ \	0.0	1517
11	7	13	14-16-19-22*	2.0/1.7	35*	0-1.7 Yellowish brown (10YR 5/2) w/ fine pale olive (10Y 6/2) and dark reddish brown (10R 3/4) flecks common, damp, dense, well graded, f-m-c SAND, some angular to subrounded f-m gravel, little silt, trace c gravel, shale fragments.		\ \	0.0	1524
13	8	15	18-20-19-16*	2.0/1.65	39*	0-1.65 SAA, saturated.		\ \	0.0	10/19/10
15	9	17	21-18-14-12*	2.0/1.5	32*	0-1.5 SAA, damp.		\ \	0.0	0935
17	10	19	10-8-10-9*	2.0/1.5	18*	0-1.5 SAA, damp.			0.0	0950
19	11	21	11-8-8-9*	2.0/1.25	16*	0-1.25 SAA, trace f-m-c gravel, damp.			0.0	1030

* Denotes the use of a Three in. split spoon, subsequent "N-value" is not a true "N-value" but a sum of the blows for the middle 12 in of a sampling interval. No samples taken from 0-42 ft. Descriptions from 0-21 ft taken from SB915-MW-90BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-90S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/13/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/14/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
20	11	22	4-4-4-4	2.0/1.5	8	0-1.5 loose, dry, dark yellowish brown (10YR 4/2) with fine to medium sand grain size fleck of greenish gray (5GY 6/1) and dusky red(5R 3/4) fine medium and course sand, little small rounded gravel in the silt	Sand and gravel		0.0	7/13/11 1428
22	12	24	3-4-4-4	2.0/1.5	8	0-1.5 Same as above, slight increase in small to medium gravel, wet-saturated at about 23.5' bgs		=	0.0	1430
24	13	26	8-8-5-8	2.0/1.5	13	0-1.5 Same as above, saturated, little large angular gravel, slight increase in silt		=	0.0	1445
26	14	28	8-10-8-8	2.0/1.5	18	0-1.5 Same as above, intervals (0.1') of matrix supported silt	Sand, gravel, Silt	=	0.0	1454
28	15	30	3-8-5-6	2.0/0.5	13	0-0.5 loose, saturated, dark gray (N3) medium to course sand and medium to large angular gravel little fine sand, trace silt		=	0.0	1512
30	16	32	5-6-5-5	2.0/1.5	11	0-1.5 Same as above, subrounded gravel		=	0.0	1515
						End of boring 32' bgs				
						Well Construction (bgs)				
						Screen: 22-32 ft				
						Riser: +2.5-22 ft				
						#0 Sand: 20-22 ft				
						#00 Sand: 18-20 ft				
						Grout: 0-18 ft				

Descriptions from 0-21 ft taken from SB915-MW-90BR

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: 140-lb drop	Start Date: 10/25/2010
File No.: 1163/46698	Fall: 30"	End Date: 2/28/2011
Boring Company: GeoLogic, Inc.		Screen = \ Grout
Foreman: Scott Breeds		Riser Sand Pack
OBG Geologist: Paul Freyer, Yuri Veliz, Jon Bone		Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	2-3-9-10	2/1.75	12	0-0.1 Dark yellowish brown (10YR 4/2), dry, loose f-m SAND sized particle plavit matter. 0.1-1.0 Grayish orange (10YR 7/4), dry, loose, f-m SAND sized particles. 1.1-1.7 Light gray (N7), dry, med. dense f-m SAND sized particles, partially cemented.	Solvay Waste	\ \	0.0	1222
2	2	4	32-50/0.4	0.9/0.9	>50	0-0.9 Light gray (N7), dry, very dense, f-m SAND sized particle cemented in silt matrix.		\ \	0.0	1224
4	3	6	25-27-30-32	2/1.2	57	0-1.2 Dark gray (N3) and very light gray (N8), dry, very dense f-m SAND sized particle cemented in silt matrix.		\ \	0.0	1312
6	4	8	27-10-7-10	2/1.2	17	0-1.2 SAA		\ \	0.0	1316
8	5	10	10-17-7-4	2/1.3	24	0-1.1 Pale yellowish brown (10YR 6/2), wet, dense, f-m SAND sized particles in silt matrix. 1.1-1.3 Dark gray (N3), moist, dense, SILT and f sand sized particles.		\ \	0.0	1350
10	6	12	WH-WH-1-1	2/0.5	1	0-0.5 Med. light gray (N6), saturated, very soft SILT sized particles.		\ \	0.0	1435
12	7	14	10-17-6-7	2/1.3	23	0-1.3 Pale yellowish brown (10YR 6/2), damp to moist, hard, SILT sized particles, some sand sized particles.		\ \	0.0	1440
14	8	16	7-11-5-6	2/1.2	16	0-1.2 Pale yellowish brown (10YR 6/2), moist to wet, stiff to hard, SILT sized particles with thin layers of f-m sand sized particles.		\ \	0.0	1300
16	9	18	10-1-1-3	2/0.5	2	0-0.5 Pale yellowish brown (10YR 6/2) and med dark gray (N4), moist, dense, f-m SAND sized particles with layers of silt sized particles		\ \	0.0	1515
18	10	20	2-12-9-8	2.0/1.2	21	0.0-0.6 Med. dark gray (N4), wet, soft SILT sized particles. 0.6-1.2 Pale yellowish brown (10YR 6/2), damp, dense, f-m SAND sized particles.		\ \	0.0	1524
20	11	22	2-3-18-10	2.0/1.7	21	0-1.0 Med. dark gray (N4), wet, soft to firm, SILT sized particles. 1.0-1.7 Pale yellowish brown (10YR 6/2), damp to wet, f-m SAND sized particles.		\ \	0.0	1535
22	12	24	5-10-2-3	2.0/0.8	12	0-0.8 Pale yellowish brown (10YR 6/2) and greenish gray (5G 6/1), saturated, med dense, f-m SAND sized particles in silt matrix.		\ \	0.0	1547
24	13	26	10-18-25-32	2.0/1.7	43	0-1.7 Light brownish gray (5YR 6/1), damp, dense, f-m SAND sized particles.		\ \	0.0	1553
26	14	28	5-5-2-2	2.0/1.5	7	0-1.5 Light gray (N7) with layers of very light gray (N8), saturated, med dense, f-m SAND sized particles in silt matrix.		\ \	0.0	1600

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/25/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 2/28/2011
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: Paul Freyer, Yuri Veliz, Jon Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
30	16	32	3-4-24-4	2.0/1.7	28	0-1.3 White (N9) to light gray (N7), wet, soft to hard, SILT sized particles, little f sand sized particles. 1.3-1.7 Light gray (N7), wet, hard f-m SAND in a cemented silt matrix.		\		\	1.5	10/26/10 745
32	17	34	2-3-3-2	2.0/1.4	6	0-1.4 White (N9) to light gray (N7) w/ 0.02 to 0.05 ft med dark gray (N4) laminations, wet, soft to firm, SILT, little f sand sized particles.		\		\	1.5	800
34	18	36	3-2-2-4	2.0/2.0	4	0-2.0 White (N9) to light gray (N7) w/ 0.02 to 0.05 ft med dark gray (N4) laminations , wet, soft, laminated texturally SILT sized particles, trace f sand sized particles.		\		\	2.1	839
36	19	38	2-6-7-3	2.0/1.5	13	0-1.5 SAA, few thin (0.02 ft) cemented laminations.		\		\	2.9	843
38	20	40	w-w-1-1	2.0/1	<2	0-1.0 White (N9) w/ few faint light gray (N7) mottles, wet, very soft, SILT sized particles in a paste like matrix.		\		\	1.2	856
40	21	42	4-1-2-1	2.0/1.9	3	0-1.9 White (N9) to light gray (N7) w/ few distinct med dark gray (N4) laminations, wet, soft, laminated texturally SILT, little f. sand, trace m sand in a paste-like matrix.		\		\	1.7	902
42	22	44	1-3-5-1	2.0/1.3	8	0-1.3 SAA, one 0.1 ft cemented lense.		\		\	0.1	916
44	23	46	w-w-1-1	2.0/1.75	<2	0-1.75 White (N9) to light gray (N7) w/ distinct med dark gray (N4) laminations (0.01 to 0.05 ft thick), wet, very soft, SILT, little f sand sized particles, laminated (texturally) in a paste-like matrix.		\		\	0.2	920
46	24	48	w-w-w-w	2.0/1.5	<1	0-1.5 SAA, one 0.1 ft cemented lense.		\		\	0.5	936
48	25	50	w-2-2-2	2.0/1.5	4	0-1.5 SAA, slight cementation in med dark gray (N4) laminations.		\		\	0.5	939
50	26	52	2-1-3-4	2.0/1.15	4	0-1.15 SAA.		\		\	0.0	1016
52	27	54	5-3-2-1	2.0/1.0	5	0-1.0 White (N9) to light gray (N7), wet, firm, SILT sized particles in a past-like matrix, few laminations.		\		\	0.3	1020
54	28	56	1-4-2-1	2.0/1.0	6	0-1.0 White (N9) to light gray (N7) w/ few distinct med. dark gray (N4) to dark gray (N3) laminations, wet, firm, SILT, little f-m sand sized particles in a paste-like matrix, one lamination cemented.		\		\	0.5	1035
56	29	58	2-2-4-10	2.0/1.75	6	0-1.4 White (N9) to light gray (N7), faint to distinct light gray (N7) and med. dark gray (N4) laminations common, SILT, little f-m SAND sized particles in a paste-like matrix w/ cemented laminations. Pale yellowish orange (10YR 8/6) above contact. 1.4-1.75 ft Dark yellowish brown (10YR 4/2), wet, firm to stiff, SILT, trace clay, trace f sand, trace roots and plant fragments.	Solvay Waste Silt trace clay 57.4'	\		\	3.0	1040

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/25/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 2/28/2011
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: Paul Freyer, Yuri Veliz, Jon Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
58	30	60	5-8-12-15	2.0/1.75	20	0-1.75 Dark yellowish brown (10 YR 4/2), moist, hard, SILT, trace clay, trace plant fragments	Silt, trace clay	\		\	0.5	1056
60	31	62	10-12-12-14	2.0/1.65	24	0-0.7 Dark yellowish brown (10 YR 4/2), moist, hard, SILT, trace clay. 0.7-1.65 Moderate-yellowish brown (10YR 5/4) faint dark yellowish orange (10YR 6/6) and med. dark gray (N4) mottling throughout, damp to moist, hard/med. dense, SILT, trace f sand.		\		\	3.6	1101
62	32	64	3-3-5-5	2.0/1.6	8	0-1.6 Yellowish brown (10YR 5/2) w/ fine, distinct, dark yellowish orange (10YR 6/6) and grayish black (N2) laminations common, moist to saturated, SILT, trace f sand, trace clay		\		\	0.5	1124
64	33	66	6-5-9-11	2.0/1.35	14	0-1.35 Yellowish brown (10YR 5/2), faint to distinct dark gray (N3) to grayish black (N2) laminations, saturated, med. dense/stiff, SILT, little f sand, one 0.1 ft clayey silt lense.		\		\	0.4	1130
66	34	68	7-9-12-14	2.0/1.2	21	0-1.2 Olive gray (5Y 3/2), saturated, med. Dense, SILT inter layer with f to f-m sand, increasing sand content with depth, trace shell fragment.		\		\	3.7	1240
68	35	70	11-14-17-18	2.0/1.25	31	0-1.25 Olive black (5Y 2/1), saturated, dense, f SAND, some m sand, little silt, trace shell fragments.	F to FM Sand	\		\	3.0	1248
70	36	72	7-8-6-5	2.0/2.0	14	0-0.8 SAA. 0.8-1.9 Reddish brown (10R 4/4), moist, stiff, clayey SILT, cohesive, slight to low plasticity. 1.9-2.0 Olive black (5Y 2/1), saturated, med. dense, f-m SAND, tr. silt.	Clayey Silt with Fine Sand	\		\	1.7	1453
72	37	74	5-7-14-50	2.0/1.7	21	0-1.6 Reddish brown (10YR 4/4), moist, stiff to hard, clayey SILT to SILT and clay w/ few light brown (5YR 5/6) partings of SILT, cohesive, slight to low plasticity. 1.6-1.7 Dark yellowish brown (10YR 4/2) w/ pale olive (10Y 6/2) and grayish red (10R 4/2) flecks throughout, wet, very dense, f-m-c GRAVEL, little m-c sand, little f sand.	Gravel	\		\	0.9	1502
76	39	76.8	45-50/0.3	0.8/0.8	>50	0-0.8 SAA, coarse GRAVEL stuck in spoon nose	FMC Sand Angular Shale	\		\	0.4	1622
78	40	80	38-25-22-40	2.0/1.6	47	0-1.6 Dark greenish gray (5GY 4/1), wet, dense, angular shale fragments and f-m-c		\		\	0.1	10/27/10 0850
80	41	82	30-30-40-33	2.0/1.6	70	0-1.6 Dark greenish gray (5GY 4/1), saturated, very dense, f-m-c SAND and silt, some angular shale fragments.		\		\	0.2	0900
82	42	84	35-50/0.2	0.7/0.5	>50	0-0.5 SAA, wet, little med. GRAVEL and shale	Gravel	\		\	0.0	0930

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: 140-lb drop	Start Date: 10/25/2010
File No.: 1163/46698	Fall: 30"	End Date: 2/28/2011
Boring Company: GeoLogic, Inc.		Screen = \ Grout
Foreman: Scott Breeds		Riser Sand Pack
OBG Geologist: Paul Freyer, Yuri Veliz, Jon Bone		Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
84	43	86	48-57-55-62	2.0/1.5	112	0-1.5 Dark greenish gray (5GY 4/1), wet, very dense, f-m SAND and silt, some shale fragments, little c. gravel.	Sand and Silt	\		\	0.2	1003
86	44	86.4	100/0.4	0.4/0.4	>100	0-0.4 SAA.		\		\	0.0	1010
88	45	90	100-80-65-80	2.0/1.1	145	0-0.6 SAA. 0.6-1.1 Grayish black (N2), very hard, shale fragments.		\		\	0.0	1055
90	46	92	60-35-35-40	2.0/1.3	70	0-0.3 Grayish black (N2), very hard, shale fragments. 0.3-1.4 Dark greenish gray (5GY 4/1), wet to saturated, very dense, f-m SAND and silt, some shale fragments.		\		\	0.2	1112
92	47	94	18-38-14-12	2.0/1.0	52	0-0.5 Dark greenish gray (5GY 4/1) and greenish gray (5GY 6/1), wet, dense f-m GRAVEL. 0.5-1.0 Dark greenish gray (5GY 4/1) and olive gray (5Y 4/1), wet, dense f-m SAND and silt, little c GRAVEL.		\		\	0.0	1400
94	48	96	13-11-10-22	2.0/0.6	21	0-0.6 Dark greenish gray (5GY 4/1), saturated, med. dense, f-m SAND and silt, some shale.		\		\	0.0	1455
96	49	98	21-18-8-8	2.0/0.6	16	0-0.6 Greenish gray (5GY 6/1), wet, dense, f-m GRAVEL, little f-m sand and silt.	96'	\		\	0.1	1505
98	50	100	8-21-35-38	2/1.2	56	0-1.2 Greenish gray (5GY 6/1), wet, dense f-m GRAVEL and silt, some f-m sand.	Sand and Gravel	\		\	0.0	1635
100	51	102	25-25-37-43	2/1.4	62	0-1.4 Olive gray (5Y 4/1), wet, very dense f-m GRAVEL and silt, some f-m sand.		\		\	0.0	0810
102	52	104	55-75-40-52	2/1.3	115	0-1.3 SAA, increase SILT at bottom	Sand and Gravel	\		\	0.0	0820
104	53	106	16-28-16-45	2/1.3	44	0-1.3 Olive gray (5Y 4/1), wet, dense, f-m GRAVEL and silt, some f-m sand, trace c. gravel.		\		\	0.0	0945
106	54	108	90-55-40-45	2/1.8	95	0-1.8 Olive gray (5Y 4/1) and moderate yellowish brown (10YR 5/4), wet to saturated, very dense, f-m GRAVEL, some silt and f-m-c sand, trace c gravel. Grayish black (N2) shale fragments.		\		\	0.0	0953
108	55	110	36-55-18-17	2/1.3	73	0-1.3 SAA.		\		\	0.0	1105
110	56	112	12-26-32-25	2/1.2	58	0-1.2 SAA, increase c gravel.		\		\	0.0	1145
112	57	114	23-17-15-24	2/2.0	32	0-2.0 SAA, dense.		\		\	0.0	1205
114	58	116	18-17-15-19	2/1.2	32	0-1.2 SAA.		\		\	0.0	1400
116	59	118	26-18-22-25	2/2.0	40	0-2.0 Olive gray (5Y 4/1), wet, dense, f-m GRAVEL some silt and little f-m-c sand, trace c		\		\	0.0	1410

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: 140-lb drop	Start Date: 10/25/2010
File No.: 1163/46698	Fall: 30"	End Date: 2/28/2011
Boring Company: GeoLogic, Inc.	Screen = \	Grout
Foreman: Scott Breeds	Riser	Sand Pack
OBG Geologist: Paul Freyer, Yuri Veliz, Jon Bone		Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
118	60	120	23-18-15-17	2/1.2	33	0-1.2 Medium dark gray (N4), wet, f-m GRAVEL and m-c sand, little silt, trace c gravel.		\		\	0.1	1550
120	61	122	30-28-30-36	2.0/1.2	58	0-1.2 Medium dark gray (N4), wet, dense, f-m GRAVEL, some c gravel and m-c sand, little silt.		\		\	0.0	10/29/10 0923
122	62	122.8	80-100/0.3	0.8/0.8	>100	0-0.8 SAA.		\		\	0.0	0940
124	63	126	28-16-15-16	2.0/0.5	31	0-0.5 SAA, some silt.		\		\	0.0	1055
126	64	126.8	12-9-10-9	2.0/1.3	19	0-1.3 Medium dark gray (N4), wet, medium dense, f-m SAND little silt.	Sand	\		\	0.2	1110
128	65	130	14-14-16-20	2.0/1.0	30	0-1.0 SAA.		\		\	0.0	1340
130	66	132	14-18-18-18*	2.0/0.8	36*	No recovery from 2 in. spoon. Used 3 in. spoon for the same interval and recovered 0.8 ft. 0-0.8 SAA.		\		\	0.0	1422
132	67	134	42-62-60-60*	2.0/1.2	122*	Three inch spoon. 0-1.2 SAA.		\		\	0.0	1500
134	68	136	21-20-18-20	2.0/1.3	38	0-1.3 Brownish gray (5YR 4/1), saturated, dense f-m SAND, some silt, trace m gravel.	Sand and Gravel	\		\	0.0	11/1/10 0910
136	69	138	18-22-26-30	2.0/2.0	48	0-2.0 Brownish gray (5YR 4/1) and medium dark gray (N4), moist to wet, dense, f-m SAND, some silt, little clay.		\		\	0.0	0920
138	70	140	8-7-6-9	2.0/1.3	13	0-1.3 Dark reddish brown (10R 3/4), damp to wet, stiff SILT and f sand, some clay, little m gravel (matrix supported).	138'	\		\	0.0	1035
140	71	142	7-11-13-16	2.0/1.7	24	0-1.7 SAA, harder.	Till	\		\	0.0	1118
142	72	144	16- 14-18-20	2.0/1.8	32	0-1.8 SAA, harder till.		\		\	0.0	1125
144	73	145	NA	NA	NA	5" steel casing set 0-144' bgs. Drilled through 5" casing with 3 7/8' roller bit to 145 ft		\		\		
145	74	150	NA**	5.0/0.8	NA**	0-0.8 Dense, wet, dark reddish brown (10R 3/4) SILT, some clay matrix, slightly cohesive, supporting few m-c rounded gravel, little m-c subrounded gravel.		\		\	NA	2/23/11 0945
150	75	154.5	NA**	4.5/2.0	NA**	0-2.0 SAA		\		\	NA	1400
155	76	160	NA**	5.0/3.3	NA**	0-3.3 SAA		\		\	NA	2/24/11 920
160	77	165	NA**	5.0/2.55	NA**	0-2.55 SAA					NA	1100
165	78	170	NA**	5.0/3.45	NA**	0-3.45 SAA		\		\		1400
170	79	175	NA**	5.0/3.15	NA**	0-3.15 SAA		\		\	NA	1557
175	80	180	NA**	5.0/1.3	NA**	0-1.3 Dense, wet, dark reddish brown (10R 3/4) CLAY, some silt martix, slightly cohesive, supporting little m-c rounded gravel, some m-c subrounded gravel.		\		\	NA	2/25/11 0930

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/25/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 2/28/2011
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: Paul Freyer, Yuri Veliz, Jon Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
180	81	185	NA**	5.0/1.6	NA**	0-1.6 Dense, wet, dark reddish brown (10R 3/4) SILT, some clay matrix, supporting few m-c gravel, trace large angular to subangular shale cobbles.		\ \	NA	1145
185	82	190	NA**	5.0/2.4	NA**	0-2.4 Very dense, wet, greenish gray (5GY 6/1) weathered shale, clay rich, some medium gray shale pieces (m-c subangular gravel size to cobble sized) trace silt.	190'	\ \	NA	1500
190	83	195	NA**	5.0/2.6	NA**	Shale. 4" steel casing ground into place 0-194 ft bgs	Bedrock		NA	1100
195	84	197	NA**	NA	NA**	Drilled with 3 7/8' roller bit to 197ft, start bedrock coring, see core log for description			NA	NA
197	85	199	NA**	10/8.4	NA**	Shale, single 10 ft run from 197-207 ft		=	NA	NA
199	86	201	NA**	NA	NA**	Shale		=		
201	87	203	NA**	NA	NA**	Shale		=		
203	88	205	NA**	NA	NA**	Shale		=		
205	89	207	NA**	NA	NA**	Shale		=		
						End of Boring at 207 ft bgs				

Well Installation Details: Screen (10 slot) - 197-207 ft, Riser - +2-197 ft, Sand Pack (0 sand) - 194.7-207 ft, Sand Choke (00 sand) - 191-194.7 ft, Grout - 0-191 ft

** HQ Core barrel

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13221

CORE LOG

Hole No.: SB915-MW-91BR | Job No.: 1163\46698

Sheet 1 of 1 | Project: Wastebed 13 SCA

Formation Member Unit	Run No. Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1 197 - 202	12:00	197 202	SHALE, greenish gray (5G 6/1) 197.0' to 198.4' tranisitioning to medium dark gray (N4) shale then back to greenish gray shale at 200.5'. All thinly laminated horizontal bedding, fine grain, higly fractured throughout, all horizontal. Weathering with mineralization (gypsum, calcite?) within the fractures, 1/8 inch healed veritical fracture, infilled with either calcite or gypsum from 201.3' to 201.7'.	5	100%	0%
	1 202 - 207	14:15	202 207	SHALE, greenish gray (5G 6/1) thinly laminated horizontal bedding, fine grain, higly fractured throughout, all horizontal. Weathering with mineralization (gypsum, calcite?) within the fractures.	3.4	68%	11%
				End of core hole at 207.0 ft See boring log for well construction details.			

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/31/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/2/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	2-3-9-10	2/1.75	12	0-0.1 Dark yellowish brown (10YR 4/2), dry, loose f-m SAND sized particle plavit matter. 0.1-1.0 Grayish orange (10YR 7/4), dry, loose, f-m SAND sized particles. 1.1-1.7 Light gray (N7), dry, med. dense f-m SAND sized particles, partially cemented.	Solvay Waste	\		\	0.0	1222
2	2	4	32-50/0.4	0.9/0.9	>50	0-0.9 Light gray (N7), dry, very dense, f-m SAND sized particle cemented in silt matrix.		\		\	0.0	1224
4	3	6	25-27-30-32	2/1.2	57	0-1.2 Dark gray (N3) and very light gray (N8), dry, very dense f-m SAND sized particle cemented in silt matrix.		\		\	0.0	1312
6	4	8	27-10-7-10	2/1.2	17	0-1.2 SAA		\		\	0.0	1316
8	5	10	10-17-7-4	2/1.3	24	0-1.1 Pale yellowish brown (10YR 6/2), wet, dense, f-m SAND sized particles in silt matrix. 1.1-1.3 Dark gray (N3), moist, dense, SILT and f sand sized particles.		\		\	0.0	1350
10	6	12	WH-WH-1-1	2/0.5	1	0-0.5 Med. light gray (N6), saturated, very soft SILT sized particles.		\		\	0.0	1435
12	7	14	10-17-6-7	2/1.3	23	0-1.3 Pale yellowish brown (10YR 6/2), damp to moist, hard, SILT sized particles, some sand sized particles.		\		\	0.0	1440
14	8	16	7-11-5-6	2/1.2	16	0-1.2 Pale yellowish brown (10YR 6/2), moist to wet, stiff to hard, SILT sized particles with thin layers of f-m sand sized particles.		\		\	0.0	1300
16	9	18	10-1-1-3	2/0.5	2	0-0.5 Pale yellowish brown (10YR 6/2) and med dark gray (N4), moist, dense, f-m SAND sized particles with layers of silt sized particles		\		\	0.0	1515
18	10	20	2-12-9-8	2.0/1.2	21	0.0-0.6 Med. dark gray (N4), wet, soft SILT sized particles. 0.6-1.2 Pale yellowish brown (10YR 6/2), damp, dense, f-m SAND sized particles.		\		\	0.0	1524
20	11	22	2-3-18-10	2.0/1.7	21	0-1.0 Med. dark gray (N4), wet, soft to firm, SILT sized particles. 1.0-1.7 Pale yellowish brown (10YR 6/2), damp to wet, f-m SAND sized particles.		\		\	0.0	1535
22	12	24	5-10-2-3	2.0/0.8	12	0-0.8 Pale yellowish brown (10YR 6/2) and greenish gray (5G 6/1), saturated, med dense, f-m SAND sized particles in silt matrix.		\		\	0.0	1547
24	13	26	10-18-25-32	2.0/1.7	43	0-1.7 Light brownish gray (5YR 6/1), damp, dense, f-m SAND sized particles.		\		\	0.0	1553

No samples taken from 0-125 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/31/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/2/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
26	14	28	5-5-2-2	2.0/1.5	7	0-1.5 Light gray (N7) with layers of very light gray (N8), saturated, med dense, f-m SAND sized particles in silt matrix.	Solvay Waste	\		\	0.0	1600
30	16	32	3-4-24-4	2.0/1.7	28	0-1.3 White (N9) to light gray (N7), wet, soft to hard, SILT sized particles, little f sand sized particles. 1.3-1.7 Light gray (N7), wet, hard f-m SAND in a cemented silt matrix.		\		\	1.5	10/26/10 745
32	17	34	2-3-3-2	2.0/1.4	6	0-1.4 White (N9) to light gray (N7) w/ 0.02 to 0.05 ft med dark gray (N4) laminations, wet, soft to firm, SILT, little f sand sized particles.		\		\	1.5	800
34	18	36	3-2-2-4	2.0/2.0	4	0-2.0 White (N9) to light gray (N7) w/ 0.02 to 0.05 ft med dark gray (N4) laminations , wet, soft, laminated texturally SILT sized particles, trace f sand sized particles.		\		\	2.1	839
36	19	38	2-6-7-3	2.0/1.5	13	0-1.5 SAA, few thin (0.02 ft) cemented laminations.		\		\	2.9	843
38	20	40	w-w-1-1	2.0/1	<2	0-1.0 White (N9) w/ few faint light gray (N7) mottles, wet, very soft, SILT sized particles in a paste like matrix.		\		\	1.2	856
40	21	42	4-1-2-1	2.0/1.9	3	0-1.9 White (N9) to light gray (N7) w/ few distinct med dark gray (N4) laminations, wet, soft, laminated texturally SILT, little f. sand, trace m sand in a paste-like matrix.		\		\	1.7	902
42	22	44	1-3-5-1	2.0/1.3	8	0-1.3 SAA, one 0.1 ft cemented lense.		\		\	0.1	916
44	23	46	w-w-1-1	2.0/1.75	<2	0-1.75 White (N9) to light gray (N7) w/ distinct med dark gray (N4) laminations (0.01 to 0.05 ft thick), wet, very soft, SILT, little f sand sized particles, laminated (texturally) in a paste-like matrix.		\		\	0.2	920
46	24	48	w-w-w-w	2.0/1.5	<1	0-1.5 SAA, one 0.1 ft cemented lense.		\		\	0.5	936
48	25	50	w-2-2-2	2.0/1.5	4	0-1.5 SAA, slight cementation in med dark gray (N4) laminations.		\		\	0.5	939
50	26	52	2-1-3-4	2.0/1.15	4	0-1.15 SAA.		\		\	0.0	1016
52	27	54	5-3-2-1	2.0/1.0	5	0-1.0 White (N9) to light gray (N7), wet, firm, SILT sized particles in a past-like matrix, few laminations.		\		\	0.3	1020
54	28	56	1-4-2-1	2.0/1.0	6	0-1.0 White (N9) to light gray (N7) w/ few distinct med. dark gray (N4) to dark gray (N3) laminations, wet, firm, SILT, little f-m sand sized particles in a paste-like matrix, one lamination cemented.		\		\	0.5	1035

No samples taken from 0-125 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/31/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/2/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
56	29	58	2-2-4-10	2.0/1.75	6	0-1.4 White (N9) to light gray (N7), faint to distinct light gray (N7) and med. dark gray (N4) laminations common, SILT, little f-m SAND sized particles in a paste-like matrix w/ cemented laminations. Pale yellowish orange (10YR 8/6) above contact. 1.4-1.75 ft Dark yellowish brown (10YR 4/2), wet, firm to stiff, SILT, trace clay, trace f sand, trace roots and plant fragments.	Solvay Waste	\		\	3.0	1040
58	30	60	5-8-12-15	2.0/1.75	20	0-1.75 Dark yellowish brown (10 YR 4/2), moist, hard, SILT, trace clay, trace plant fragments	57.4'	\		\	0.5	1056
60	31	62	10-12-12-14	2.0/1.65	24	0-0.7 Dark yellowish brown (10 YR 4/2), moist, hard, SILT, trace clay. 0.7-1.65 Moderate-yellowish brown (10YR 5/4) faint dark yellowish orange (10YR 6/6) and med. dark gray (N4) mottling throughout, damp to moist, hard/med. dense, SILT, trace f sand.	Silt and Sand	\		\	3.6	1101
62	32	64	3-3-5-5	2.0/1.6	8	0-1.6 Yellowish brown (10YR 5/2) w/ fine, distinct, dark yellowish orange (10YR 6/6) and grayish black (N2) laminations common, moist to saturated, SILT, trace f sand, trace clay		\		\	0.5	1124
64	33	66	6-5-9-11	2.0/1.35	14	0-1.35 Yellowish brown (10YR 5/2), faint to distinct dark gray (N3) to grayish black (N2) laminations, saturated, med. dense/stiff, SILT, little f sand, one 0.1 ft clayey silt lense.		\		\	0.4	1130
66	34	68	7-9-12-14	2.0/1.2	21	0-1.2 Olive gray (5Y 3/2), saturated, med. Dense, SILT inter layer with f to f-m sand, increasing sand content with depth, trace shell fragment.		\		\	3.7	1240
68	35	70	11-14-17-18	2.0/1.25	31	0-1.25 Olive black (5Y 2/1), saturated, dense, f SAND, some m sand, little silt, trace shell fragments.	F to FM Sand	\		\	3.0	1248
70	36	72	7-8-6-5	2.0/2.0	14	0-0.8 SAA. 0.8-1.9 Reddish brown (10R 4/4), moist, stiff, clayey SILT, cohesive, slight to low plasticity. 1.9-2.0 Olive black (5Y 2/1), saturated, med. dense, f-m SAND, tr. silt.	Clayey Silt with Fine Sand	\		\	1.7	1453

No samples taken from 0-125 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91D
Client: Honeywell	Sampler: 2" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: 140-lb drop	Start Date: 1/31/2011
File No.: 1163/46698	Fall: 30"	End Date: 2/2/2011
Boring Company: Parratt-Wolff Foreman: Joe Percy OBG Geologist: Robert Trent		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
72	37	74	5-7-14-50	2.0/1.7	21	0-1.6 Reddish brown (10YR 4/4), moist, stiff to hard, clayey SILT to SILT and clay w/ few light brown (5YR 5/6) partings of SILT, cohesive, slight to low plasticity. 1.6-1.7 Dark yellowish brown (10YR 4/2) w/ pale olive (10Y 6/2) and grayish red (10R 4/2) flecks throughout, wet, very dense, f-m-c GRAVEL, little m-c sand, little f sand.	73.6'	\		\	0.9	1502
74	38	74.7	65-50/0.2	0.7/0.7	>50	0-0.7 Yellowish brown (10 YR 5/2), saturated, extremely dense, pale olive (10Y 6/2) and grayish red (10R 4/2), well-graded, f-m-c GRAVEL, some f sand and silt.	Gravel	\		\	0.8	1550
76	39	76.8	45-50/0.3	0.8/0.8	>50	0-0.8 SAA, coarse GRAVEL stuck in spoon nose	FMC Sand Angular Shale	\		\	0.4	1622
78	40	80	38-25-22-40	2.0/1.6	47	dense, angular shale fragments and f-m-c SAND some silt.		\		\	0.1	10/27/10 0850
80	41	82	30-30-40-33	2.0/1.6	70	0-1.6 Dark greenish gray (5GY 4/1), saturated, very dense, f-m-c SAND and silt, some angular shale fragments.		\		\	0.2	0900
82	42	84	35-50/0.2	0.7/0.5	>50	0-0.5 SAA, wet, little med. GRAVEL and shale fragments.	Gravel	\		\	0.0	0930
84	43	86	48-57-55-62	2.0/1.5	112	0-1.5 Dark greenish gray (5GY 4/1), wet, very dense, f-m SAND and silt, some shale fragments, little c. gravel.	Sand and Silt	\		\	0.2	1003
86	44	86.4	100/0.4	0.4/0.4	>100	0-0.4 SAA.		\		\	0.0	1010
88	45	90	100-80-65-80	2.0/1.1	145	0-0.6 SAA. 0.6-1.1 Grayish black (N2), very hard, shale fragments.		\		\	0.0	1055
90	46	92	60-35-35-40	2.0/1.3	70	0-0.3 Grayish black (N2), very hard, shale fragments. 0.3-1.4 Dark greenish gray (5GY 4/1), wet to saturated, very dense, f-m SAND and silt, some shale fragments.		\		\	0.2	1112
92	47	94	18-38-14-12	2.0/1.0	52	0-0.5 Dark greenish gray (5GY 4/1) and greenish gray (5GY 6/1), wet, dense f-m GRAVEL. 0.5-1.0 Dark greenish gray (5GY 4/1) and olive gray (5Y 4/1), wet, dense f-m SAND and silt, little c GRAVEL.		\		\	0.0	1400
94	48	96	13-11-10-22	2.0/0.6	21	0-0.6 Dark greenish gray (5GY 4/1), saturated, med. dense, f-m SAND and silt, some shale.		\		\	0.0	1455
96	49	98	21-18-8-8	2.0/0.6	16	0-0.6 Greenish gray (5GY 6/1), wet, dense, f-m GRAVEL, little f-m sand and silt.		\		\	0.1	1505

No samples taken from 0-125 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/31/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/2/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
98	50	100	8-21-35-38	2/1.2	56	0-1.2 Greenish gray (5GY 6/1), wet, dense f-m GRAVEL and silt, some f-m sand.	Sand and Gravel	\ \	0.0	1635
100	51	102	25-25-37-43	2/1.4	62	0-1.4 Olive gray (5Y 4/1), wet, very dense f-m GRAVEL and silt, some f-m sand.		\ \	0.0	0810
102	52	104	55-75-40-52	2/1.3	115	0-1.3 SAA, increase SILT at bottom		\ \	0.0	0820
104	53	106	16-28-16-45	2/1.3	44	0-1.3 Olive gray (5Y 4/1), wet, dense, f-m GRAVEL and silt, some f-m sand, trace c. gravel.		\ \	0.0	0945
106	54	108	90-55-40-45	2/1.8	95	0-1.8 Olive gray (5Y 4/1) and moderate yellowish brown (10YR 5/4), wet to saturated, very dense, f-m GRAVEL, some silt and f-m-c sand, trace c gravel. Grayish black (N2) shale fragments.		\ \	0.0	0953
108	55	110	36-55-18-17	2/1.3	73	0-1.3 SAA.		\ \	0.0	1105
110	56	112	12-26-32-25	2/1.2	58	0-1.2 SAA, increase c gravel.		\ \	0.0	1145
112	57	114	23-17-15-24	2/2.0	32	0-2.0 SAA, dense.		\ \	0.0	1205
114	58	116	18-17-15-19	2/1.2	32	0-1.2 SAA.		\ \	0.0	1400
116	59	118	26-18-22-25	2/2.0	40	GRAVEL some silt and little f-m-c sand, trace c gravel.		\ \	0.0	1410
118	60	120	23-18-15-17	2/1.2	33	GRAVEL and m-c sand, little silt, trace c gravel.		\ \	0.1	1550
120	61	122	30-28-30-36	2.0/1.2	58	0-1.2 Medium dark gray (N4), wet, dense, f-m GRAVEL, some c gravel and m-c sand, little silt.			0.0	10/29/10 0923
122	62	122.8	80-100/0.3	0.8/0.8	>100	0-0.8 SAA.			0.0	0940
125	2	127	70/0.4	0.4/0.0	>70	No recovery, see SB915-MW-91BR for description.		=	NA	NA
127	3	129	NA	NA	NA	No sample, auger to next interval, see SB915-MW-91BR for description.		=	NA	NA
129	4	131	14-24-27-37	2.0/1.5	51	Medium dark gray (N4), wet, medium dense, f-m SAND little silt.		=	0.0	1400
131	5	133	14-17-27-28	2.0/	44	SAA		=	0.0	1440
133	6	135	14-21-29-35	2.0/1.5	50	Brownish gray (5YR 4/1), saturated, dense f-m SAND, some silt, trace m gravel.		=	NA	NA
						End of boring at 135 ft bgs				

Notes: No samples taken from 0-125 ft bgs, descriptions taken from SB915-MW-91BR. Well construction details: Screen (10 slot) - 125-135 ft., Sand Pack - 123-135 ft., Sand Choke - 120-123 ft., Grout - 0-120 ft.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/7/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/8/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Ed Rahn		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	2-3-9-10	2/1.75	12	0-0.1 Dark yellowish brown (10YR 4/2), dry, loose f-m SAND sized particle plavit matter. 0.1-1.0 Grayish orange (10YR 7/4), dry, loose, f-m SAND sized particles. 1.1-1.7 Light gray (N7), dry, med. dense f-m SAND sized particles, partially cemented.	Solvay Waste	\		\	0.0	1222
2	2	4	32-50/0.4	0.9/0.9	>50	0-0.9 Light gray (N7), dry, very dense, f-m SAND sized particle cemented in silt matrix.		\		\	0.0	1224
4	3	6	25-27-30-32	2/1.2	57	0-1.2 Dark gray (N3) and very light gray (N8), dry, very dense f-m SAND sized particle cemented in silt matrix.		\		\	0.0	1312
6	4	8	27-10-7-10	2/1.2	17	0-1.2 SAA		\		\	0.0	1316
8	5	10	10-17-7-4	2/1.3	24	0-1.1 Pale yellowish brown (10YR 6/2), wet, dense, f-m SAND sized particles in silt matrix. 1.1-1.3 Dark gray (N3), moist, dense, SILT and f sand sized particles.		\		\	0.0	1350
10	6	12	WH-WH-1-1	2/0.5	1	0-0.5 Med. light gray (N6), saturated, very soft SILT sized particles.		\		\	0.0	1435
12	7	14	10-17-6-7	2/1.3	23	0-1.3 Pale yellowish brown (10YR 6/2), damp to moist, hard, SILT sized particles, some sand sized particles.		\		\	0.0	1440
14	8	16	7-11-5-6	2/1.2	16	0-1.2 Pale yellowish brown (10YR 6/2), moist to wet, stiff to hard, SILT sized particles with thin layers of f-m sand sized particles.		\		\	0.0	1300
16	9	18	10-1-1-3	2/0.5	2	0-0.5 Pale yellowish brown (10YR 6/2) and med dark gray (N4), moist, dense, f-m SAND sized particles with layers of silt sized particles		\		\	0.0	1515
18	10	20	2-12-9-8	2.0/1.2	21	0.0-0.6 Med. dark gray (N4), wet, soft SILT sized particles. 0.6-1.2 Pale yellowish brown (10YR 6/2), damp, dense, f-m SAND sized particles.		\		\	0.0	1524
20	11	22	2-3-18-10	2.0/1.7	21	0-1.0 Med. dark gray (N4), wet, soft to firm, SILT sized particles. 1.0-1.7 Pale yellowish brown (10YR 6/2), damp to wet, f-m SAND sized particles.		\		\	0.0	1535
22	12	24	5-10-2-3	2.0/0.8	12	0-0.8 Pale yellowish brown (10YR 6/2) and greenish gray (5G 6/1), saturated, med dense, f-m SAND sized particles in silt matrix.		\		\	0.0	1547
24	13	26	10-18-25-32	2.0/1.7	43	0-1.7 Light brownish gray (5YR 6/1), damp, dense, f-m SAND sized particles.		\		\	0.0	1553

No samples taken from 0-115 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/7/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/8/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Ed Rahn		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
26	14	28	5-5-2-2	2.0/1.5	7	0-1.5 Light gray (N7) with layers of very light gray (N8), saturated, med dense, f-m SAND sized particles in silt matrix.	Solvay Waste	\ \	0.0	1600
30	16	32	3-4-24-4	2.0/1.7	28	0-1.3 White (N9) to light gray (N7), wet, soft to hard, SILT sized particles, little f sand sized particles. 1.3-1.7 Light gray (N7), wet, hard f-m SAND in a cemented silt matrix.		\ \	1.5	10/26/10 745
32	17	34	2-3-3-2	2.0/1.4	6	0-1.4 White (N9) to light gray (N7) w/ 0.02 to 0.05 ft med dark gray (N4) laminations, wet, soft to firm, SILT, little f sand sized particles.		\ \	1.5	800
34	18	36	3-2-2-4	2.0/2.0	4	0-2.0 White (N9) to light gray (N7) w/ 0.02 to 0.05 ft med dark gray (N4) laminations , wet, soft, laminated texturally SILT sized particles, trace f sand sized particles.		\ \	2.1	839
36	19	38	2-6-7-3	2.0/1.5	13	0-1.5 SAA, few thin (0.02 ft) cemented laminations.		\ \	2.9	843
38	20	40	w-w-1-1	2.0/1	<2	0-1.0 White (N9) w/ few faint light gray (N7) mottles, wet, very soft, SILT sized particles in a paste like matrix.		\ \	1.2	856
40	21	42	4-1-2-1	2.0/1.9	3	0-1.9 White (N9) to light gray (N7) w/ few distinct med dark gray (N4) laminations, wet, soft, laminated texturally SILT, little f. sand, trace m sand in a paste-like matrix.		\ \	1.7	902
42	22	44	1-3-5-1	2.0/1.3	8	0-1.3 SAA, one 0.1 ft cemented lense.		\ \	0.1	916
44	23	46	w-w-1-1	2.0/1.75	<2	0-1.75 White (N9) to light gray (N7) w/ distinct med dark gray (N4) laminations (0.01 to 0.05 ft thick), wet, very soft, SILT, little f sand sized particles, laminated (texturally) in a paste-like matrix.		\ \	0.2	920
46	24	48	w-w-w-w	2.0/1.5	<1	0-1.5 SAA, one 0.1 ft cemented lense.		\ \	0.5	936
48	25	50	w-2-2-2	2.0/1.5	4	0-1.5 SAA, slight cementation in med dark gray (N4) laminations.		\ \	0.5	939
50	26	52	2-1-3-4	2.0/1.15	4	0-1.15 SAA.		\ \	0.0	1016
52	27	54	5-3-2-1	2.0/1.0	5	0-1.0 White (N9) to light gray (N7), wet, firm, SILT sized particles in a past-like matrix, few laminations.		\ \	0.3	1020
54	28	56	1-4-2-1	2.0/1.0	6	0-1.0 White (N9) to light gray (N7) w/ few distinct med. dark gray (N4) to dark gray (N3) laminations, wet, firm, SILT, little f-m sand sized particles in a paste-like matrix, one lamination cemented.		\ \	0.5	1035

No samples taken from 0-115 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 2/7/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/8/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Joe Percy		**Riser Sand Pack**
OBG Geologist: Ed Rahn		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
56	29	58	2-2-4-10	2.0/1.75	6	0-1.4 White (N9) to light gray (N7), faint to distinct light gray (N7) and med. dark gray (N4) laminations common, SILT, little f-m SAND sized particles in a paste-like matrix w/ cemented laminations. Pale yellowish orange (10YR 8/6) above contact. 1.4-1.75 ft Dark yellowish brown (10YR 4/2), wet, firm to stiff, SILT, trace clay, trace f sand, trace roots and plant fragments.	Solvay Waste	\		\	3.0	1040
58	30	60	5-8-12-15	2.0/1.75	20	0-1.75 Dark yellowish brown (10 YR 4/2), moist, hard, SILT, trace clay, trace plant fragments	57.4'	\		\	0.5	1056
60	31	62	10-12-12-14	2.0/1.65	24	0-0.7 Dark yellowish brown (10 YR 4/2), moist, hard, SILT, trace clay. 0.7-1.65 Moderate-yellowish brown (10YR 5/4) faint dark yellowish orange (10YR 6/6) and med. dark gray (N4) mottling throughout, damp to moist, hard/med. dense, SILT, trace f sand.	Silt and Sand	\		\	3.6	1101
62	32	64	3-3-5-5	2.0/1.6	8	0-1.6 Yellowish brown (10YR 5/2) w/ fine, distinct, dark yellowish orange (10YR 6/6) and grayish black (N2) laminations common, moist to saturated, SILT, trace f sand, trace clay		\		\	0.5	1124
64	33	66	6-5-9-11	2.0/1.35	14	0-1.35 Yellowish brown (10YR 5/2), faint to distinct dark gray (N3) to grayish black (N2) laminations, saturated, med. dense/stiff, SILT, little f sand, one 0.1 ft clayey silt lense.		\		\	0.4	1130
66	34	68	7-9-12-14	2.0/1.2	21	0-1.2 Olive gray (5Y 3/2), saturated, med. Dense, SILT inter layer with f to f-m sand, increasing sand content with depth, trace shell fragment.		\		\	3.7	1240
68	35	70	11-14-17-18	2.0/1.25	31	0-1.25 Olive black (5Y 2/1), saturated, dense, f SAND, some m sand, little silt, trace shell fragments.	F to FM Sand	\		\	3.0	1248
70	36	72	7-8-6-5	2.0/2.0	14	0-0.8 SAA. 0.8-1.9 Reddish brown (10R 4/4), moist, stiff, clayey SILT, cohesive, slight to low plasticity. 1.9-2.0 Olive black (5Y 2/1), saturated, med. dense, f-m SAND, tr. silt.	Clayey Silt with Fine Sand	\		\	1.7	1453

No samples taken from 0-115 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91I
Client: Honeywell	Sampler: 2" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: 140-lb drop	Start Date: 2/7/2011
File No.: 1163/46698	Fall: 30"	End Date: 2/8/2011
Boring Company: Parratt-Wolff Foreman: Joe Percy OBG Geologist: Ed Rahn		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
72	37	74	5-7-14-50	2.0/1.7	21	0-1.6 Reddish brown (10YR 4/4), moist, stiff to hard, clayey SILT to SILT and clay w/ few light brown (5YR 5/6) partings of SILT, cohesive, slight to low plasticity. 1.6-1.7 Dark yellowish brown (10YR 4/2) w/ pale olive (10Y 6/2) and grayish red (10R 4/2) flecks throughout, wet, very dense, f-m-c GRAVEL, little m-c sand, little f sand.	73.6'	\		\	0.9	1502
74	38	74.7	65-50/0.2	0.7/0.7	>50	0-0.7 Yellowish brown (10 YR 5/2), saturated, extremely dense, pale olive (10Y 6/2) and grayish red (10R 4/2), well-graded, f-m-c GRAVEL, some f sand and silt.	Gravel	\		\	0.8	1550
76	39	76.8	45-50/0.3	0.8/0.8	>50	0-0.8 SAA, coarse GRAVEL stuck in spoon nose	FMC Sand Angular Shale	\		\	0.4	1622
78	40	80	38-25-22-40	2.0/1.6	47	dense, angular shale fragments and f-m-c SAND some silt.		\		\	0.1	10/27/10 0850
80	41	82	30-30-40-33	2.0/1.6	70	0-1.6 Dark greenish gray (5GY 4/1), saturated, very dense, f-m-c SAND and silt, some angular shale fragments.		\		\	0.2	0900
82	42	84	35-50/0.2	0.7/0.5	>50	0-0.5 SAA, wet, little med. GRAVEL and shale fragments.	Gravel	\		\	0.0	0930
84	43	86	48-57-55-62	2.0/1.5	112	0-1.5 Dark greenish gray (5GY 4/1), wet, very dense, f-m SAND and silt, some shale fragments, little c. gravel.	Sand and Silt	\		\	0.2	1003
86	44	86.4	100/0.4	0.4/0.4	>100	0-0.4 SAA.		\		\	0.0	1010
88	45	90	100-80-65-80	2.0/1.1	145	0-0.6 SAA. 0.6-1.1 Grayish black (N2), very hard, shale fragments.		\		\	0.0	1055
90	46	92	60-35-35-40	2.0/1.3	70	0-0.3 Grayish black (N2), very hard, shale fragments. 0.3-1.4 Dark greenish gray (5GY 4/1), wet to saturated, very dense, f-m SAND and silt, some shale fragments.		\		\	0.2	1112
92	47	94	18-38-14-12	2.0/1.0	52	0-0.5 Dark greenish gray (5GY 4/1) and greenish gray (5GY 6/1), wet, dense f-m GRAVEL. 0.5-1.0 Dark greenish gray (5GY 4/1) and olive gray (5Y 4/1), wet, dense f-m SAND and silt, little c GRAVEL.		\		\	0.0	1400
94	48	96	13-11-10-22	2.0/0.6	21	0-0.6 Dark greenish gray (5GY 4/1), saturated, med. dense, f-m SAND and silt, some shale.		\		\	0.0	1455
96	49	98	21-18-8-8	2.0/0.6	16	0-0.6 Greenish gray (5GY 6/1), wet, dense, f-m GRAVEL, little f-m sand and silt.		\		\	0.1	1505

No samples taken from 0-115 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91I
Client: Honeywell	Sampler: 2" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: 140-lb drop	Start Date: 2/7/2011
File No.: 1163/46698	Fall: 30"	End Date: 2/8/2011
Boring Company: Parratt-Wolff Foreman: Joe Percy OBG Geologist: Ed Rahn		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
98	50	100	8-21-35-38	2/1.2	56	0-1.2 Greenish gray (5GY 6/1), wet, dense f-m GRAVEL and silt, some f-m sand.	Sand and Gravel	\ \	0.0	1635
100	51	102	25-25-37-43	2/1.4	62	0-1.4 Olive gray (5Y 4/1), wet, very dense f-m GRAVEL and silt, some f-m sand.		\ \	0.0	0810
102	52	104	55-75-40-52	2/1.3	115	0-1.3 SAA, increase SILT at bottom		\ \	0.0	0820
104	53	106	16-28-16-45	2/1.3	44	0-1.3 Olive gray (5Y 4/1), wet, dense, f-m GRAVEL and silt, some f-m sand, trace c. gravel.		\ \	0.0	0945
106	54	108	90-55-40-45	2/1.8	95	0-1.8 Olive gray (5Y 4/1) and moderate yellowish brown (10YR 5/4), wet to saturated, very dense, f-m GRAVEL, some silt and f-m-c sand, trace c gravel. Grayish black (N2) shale fragments.		\ \	0.0	0953
108	55	110	36-55-18-17	2/1.3	73	0-1.3 SAA.		\ \	0.0	1105
110	56	112	12-26-32-25	2/1.2	58	0-1.2 SAA, increase c gravel.			0.0	1145
112	57	114	23-17-15-24	2/2.0	32	0-2.0 SAA, dense.			0.0	1205
115	2	117	68-62-28-22	2.0/1.4	90	Olive gray (5Y 4/1), wet, dense, f-m GRAVEL some silt and little f-m-c sand, trace c gravel.	Gravel	=	0.0	2/7/11 1320
117	3	119	25-26-42-44	2.0/1.3	68	Medium dark gray (N4), wet, f-m GRAVEL and m-c sand, little silt, trace c gravel.		=	0.0	1340
119	4	121	38-66-68-67	2.0/1.1	134	Olive gray (5Y 4/1), wet, dense, f-m GRAVEL some silt and little f-m-c sand, trace c gravel.		=	0.0	1420
121	5	123	38-30-22-20	2.0/1.4	52	Olive gray (5Y 4/1), wet, dense, f-m GRAVEL some silt and little f-m-c sand, trace c gravel.		=	0.0	1440
123	6	125	15-12-16-17	2.0/1.6	28	Medium dark gray (N4), wet, dense, f-m GRAVEL, some c gravel and m-c sand, little silt.		=	0.0	1500
						End of boring at 125 ft bgs				
						Well construction details:				
						Screen: 115-125 ft				
						Riser: +2-115 ft				
						Sand Pack: 113-125 ft				
						Sand Choke: 110-113 ft				
						Grout: 0-110 ft				

No samples taken from 0-115 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91S
Client: Honeywell	Sampler: 2" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: Auto	Start Date: 2/3/2011
File No.: 1163/46698	Fall: NA	End Date: 2/3/2011
Boring Company: Parratt-Wolff Foreman: Joe Percy OBG Geologist: Robert Trent		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	PID (ppm)	Field Testing Time
0	1	2	2-3-9-10	2/1.75	12	0-0.1 Dark yellowish brown (10YR 4/2), dry, loose f-m SAND sized particle plavit matter. 0.1-1.0 Grayish orange (10YR 7/4), dry, loose, f-m SAND sized particles. 1.1-1.7 Light gray (N7), dry, med. dense f-m SAND sized particles, partially cemented.	Solvay Waste	\ \	0.0	1222
2	2	4	32-50/0.4	0.9/0.9	>50	0-0.9 Light gray (N7), dry, very dense, f-m SAND sized particle cemented in silt matrix.		\ \	0.0	1224
4	3	6	25-27-30-32	2/1.2	57	0-1.2 Dark gray (N3) and very light gray (N8), dry, very dense f-m SAND sized particle cemented in silt matrix.		\ \	0.0	1312
6	4	8	27-10-7-10	2/1.2	17	0-1.2 SAA		\ \	0.0	1316
8	5	10	10-17-7-4	2/1.3	24	0-1.1 Pale yellowish brown (10YR 6/2), wet, dense, f-m SAND sized particles in silt matrix. 1.1-1.3 Dark gray (N3), moist, dense, SILT and f sand sized particles.		\ \	0.0	1350
10	6	12	WH-WH-1-1	2/0.5	1	0-0.5 Med. light gray (N6), saturated, very soft SILT sized particles.		\ \	0.0	1435
12	7	14	10-17-6-7	2/1.3	23	0-1.3 Pale yellowish brown (10YR 6/2), damp to moist, hard, SILT sized particles, some sand sized particles.		\ \	0.0	1440
14	8	16	7-11-5-6	2/1.2	16	0-1.2 Pale yellowish brown (10YR 6/2), moist to wet, stiff to hard, SILT sized particles with thin layers of f-m sand sized particles.		\ \	0.0	1300
16	9	18	10-1-1-3	2/0.5	2	0-0.5 Pale yellowish brown (10YR 6/2) and med dark gray (N4), moist, dense, f-m SAND sized particles with layers of silt sized particles			0.0	1515
18	10	20	2-12-9-8	2.0/1.2	21	0.0-0.6 Med. dark gray (N4), wet, soft SILT sized particles. 0.6-1.2 Pale yellowish brown (10YR 6/2), damp, dense, f-m SAND sized particles.			0.0	1524
21	2	23	6-9-22-3	2.0/2.0	31	Med. dark gray (N4), wet, soft to firm, SILT sized particles.		=	0.0	1500
23	3	25	4-7-12-4	2.0/1.2	19	Pale yellowish brown (10YR 6/2) and greenish gray (5G 6/1), saturated, med dense, f-m SAND sized particles in silt matrix.		=	0.0	1505
25	4	27	3-3-3-20	2.0/1.2	6	Light brownish gray (5YR 6/1), damp, dense, f-m SAND sized particles.		=	0.0	1520
27	5	29	4-3-2-17	2.0/1.5	5	Light gray (N7) with layers of very light gray (N8), saturated, med dense, f-m SAND sized particles in silt matrix.		=	0.0	1525

No samples were taken from 0-21 ft bgs. Descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91S
Client: Honeywell	Sampler: 2" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: Auto	Start Date: 2/3/2011
File No.: 1163/46698	Fall: NA	End Date: 2/3/2011
Boring Company: Parratt-Wolff Foreman: Joe Percy OBG Geologist: Robert Trent		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
29	6	31	4-3-2-3	2.0/2.0	5	Medium gray (N5), wet, soft, silt-sized particles, layers of very light gray (N8), silt sized particles.	Solvay Waste	=	0.0	1530
31	7	33	5-2-3-4	2.0/2.0	5	White (N9) to light gray (N7), wet, soft to hard, SILT sized particles, little f sand sized particles.		=	0.0	1535
33	8	35	5-8-6-3	2.0/1.25	15	White (N9) to light gray (N7) w/ 0.02 to 0.05 ft med dark gray (N4) laminations, wet, soft to firm, SILT, little f sand sized particles.		=	0.0	1615
35	9	37	6-7-7-5	2.0/1.25	14	White (N9) to light gray (N7) w/ 0.02 to 0.05 ft med dark gray (N4) laminations , wet, soft, laminated texturally SILT sized particles, trace f sand sized particles.		=	0.0	1620
37	10	39	3-2-2-1	2.0/0.5	4	SAA, few thin (0.02 ft) cemented laminations.		=	0.0	1630
39	11	41	3-3-1-2	2.0/0.5	4	White (N9) w/ few faint light gray (N7) mottles, wet, very soft, SILT sized particles in a paste like matrix.		=	0.0	1635
						End of Boring at 41 ft bgs				
						Well Construction Details:				
						Screen (10 slot): 21-41 ft bgs				
						Riser: +2-21 ft				
						Sand Pack: 19-41 ft				
						Sand Choke: 16-19 ft				
						Grout: 0-16 ft				

No samples were taken from 0-21 ft bgs. Descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91SN
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: Auto**	**Start Date: 1/27/2011**
File No.: 1163/46698	**Fall: NA**	**End Date: 1/27/2011**
Boring Company: Parratt-Wolff, Inc.		**Screen = \ Grout**
Foreman: Markel Chatman		**Riser Sand Pack**
OBG Geologist: Jason Newton		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	2-3-9-10	2/1.75	12	0-0.1 Dark yellowish brown (10YR 4/2), dry, loose f-m SAND sized particle plavit matter. 0.1-1.0 Grayish orange (10YR 7/4), dry, loose, f-m SAND sized particles. 1.1-1.7 Light gray (N7), dry, med. dense f-m SAND sized particles, partially cemented.	Solvay Waste	\		\	0.0	1222
2	2	4	32-50/0.4	0.9/0.9	>50	0-0.9 Light gray (N7), dry, very dense, f-m SAND sized particle cemented in silt matrix.		\		\	0.0	1224
4	3	6	25-27-30-32	2/1.2	57	0-1.2 Dark gray (N3) and very light gray (N8), dry, very dense f-m SAND sized particle cemented in silt matrix.		\		\	0.0	1312
6	4	8	27-10-7-10	2/1.2	17	0-1.2 SAA		\		\	0.0	1316
8	5	10	10-17-7-4	2/1.3	24	0-1.1 Pale yellowish brown (10YR 6/2), wet, dense, f-m SAND sized particles in silt matrix. 1.1-1.3 Dark gray (N3), moist, dense, SILT and f sand sized particles.		\		\	0.0	1350
10	6	12	WH-WH-1-1	2/0.5	1	0-0.5 Med. light gray (N6), saturated, very soft SILT sized particles.		\		\	0.0	1435
12	7	14	10-17-6-7	2/1.3	23	0-1.3 Pale yellowish brown (10YR 6/2), damp to moist, hard, SILT sized particles, some sand sized particles.		\		\	0.0	1440
14	8	16	7-11-5-6	2/1.2	16	0-1.2 Pale yellowish brown (10YR 6/2), moist to wet, stiff to hard, SILT sized particles with thin layers of f-m sand sized particles.		\		\	0.0	1300
16	9	18	10-1-1-3	2/0.5	2	0-0.5 Pale yellowish brown (10YR 6/2) and med dark gray (N4), moist, dense, f-m SAND sized particles with layers of silt sized particles		\		\	0.0	1515
18	10	20	2-12-9-8	2.0/1.2	21	0.0-0.6 Med. dark gray (N4), wet, soft SILT sized particles. 0.6-1.2 Pale yellowish brown (10YR 6/2), damp, dense, f-m SAND sized particles.		\		\	0.0	1524
20	11	22	2-3-18-10	2.0/1.7	21	0-1.0 Med. dark gray (N4), wet, soft to firm, SILT sized particles. 1.0-1.7 Pale yellowish brown (10YR 6/2), damp to wet, f-m SAND sized particles.		\		\	0.0	1535
22	12	24	5-10-2-3	2.0/0.8	12	0-0.8 Pale yellowish brown (10YR 6/2) and greenish gray (5G 6/1), saturated, med dense, f-m SAND sized particles in silt matrix.		\		\	0.0	1547
24	13	26	10-18-25-32	2.0/1.7	43	0-1.7 Light brownish gray (5YR 6/1), damp, dense, f-m SAND sized particles.		\		\	0.0	1553

No samples taken from 0-78 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91SN
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: Auto**	**Start Date: 1/27/2011**
File No.: 1163/46698	**Fall: NA**	**End Date: 1/27/2011**
Boring Company: Parratt-Wolff, Inc.		**Screen = \ Grout**
Foreman: Markel Chatman		**Riser Sand Pack**
OBG Geologist: Jason Newton		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
26	14	28	5-5-2-2	2.0/1.5	7	0-1.5 Light gray (N7) with layers of very light gray (N8), saturated, med dense, f-m SAND sized particles in silt matrix.	Solvay Waste	\		\	0.0	1600
30	16	32	3-4-24-4	2.0/1.7	28	0-1.3 White (N9) to light gray (N7), wet, soft to hard, SILT sized particles, little f sand sized particles. 1.3-1.7 Light gray (N7), wet, hard f-m SAND in a cemented silt matrix.		\		\	1.5	10/26/10 745
32	17	34	2-3-3-2	2.0/1.4	6	0-1.4 White (N9) to light gray (N7) w/ 0.02 to 0.05 ft med dark gray (N4) laminations, wet, soft to firm, SILT, little f sand sized particles.		\		\	1.5	800
34	18	36	3-2-2-4	2.0/2.0	4	0-2.0 White (N9) to light gray (N7) w/ 0.02 to 0.05 ft med dark gray (N4) laminations , wet, soft, laminated texturally SILT sized particles, trace f sand sized particles.		\		\	2.1	839
36	19	38	2-6-7-3	2.0/1.5	13	0-1.5 SAA, few thin (0.02 ft) cemented laminations.		\		\	2.9	843
38	20	40	w-w-1-1	2.0/1	<2	0-1.0 White (N9) w/ few faint light gray (N7) mottles, wet, very soft, SILT sized particles in a paste like matrix.		\		\	1.2	856
40	21	42	4-1-2-1	2.0/1.9	3	0-1.9 White (N9) to light gray (N7) w/ few distinct med dark gray (N4) laminations, wet, soft, laminated texturally SILT, little f. sand, trace m sand in a paste-like matrix.		\		\	1.7	902
42	22	44	1-3-5-1	2.0/1.3	8	0-1.3 SAA, one 0.1 ft cemented lense.		\		\	0.1	916
44	23	46	w-w-1-1	2.0/1.75	<2	0-1.75 White (N9) to light gray (N7) w/ distinct med dark gray (N4) laminations (0.01 to 0.05 ft thick), wet, very soft, SILT, little f sand sized particles, laminated (texturally) in a paste-like matrix.		\		\	0.2	920
46	24	48	w-w-w-w	2.0/1.5	<1	0-1.5 SAA, one 0.1 ft cemented lense.		\		\	0.5	936
48	25	50	w-2-2-2	2.0/1.5	4	0-1.5 SAA, slight cementation in med dark gray (N4) laminations.		\		\	0.5	939
50	26	52	2-1-3-4	2.0/1.15	4	0-1.15 SAA.		\		\	0.0	1016
52	27	54	5-3-2-1	2.0/1.0	5	0-1.0 White (N9) to light gray (N7), wet, firm, SILT sized particles in a past-like matrix, few laminations.		\		\	0.3	1020
54	28	56	1-4-2-1	2.0/1.0	6	0-1.0 White (N9) to light gray (N7) w/ few distinct med. dark gray (N4) to dark gray (N3) laminations, wet, firm, SILT, little f-m sand sized particles in a paste-like matrix, one lamination cemented.		\		\	0.5	1035

No samples taken from 0-78 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.						SOIL BORING LOG	REPORT OF BORING SB915-MW-91SN					
Client: Honeywell						Sampler: 2" Split Spoon	Location: SCA					
Proj. Loc: Wastebed 13 SCA Camillus, NY						Hammer: Auto	Start Date: 1/27/2011					
File No.: 1163/46698						Fall: NA	End Date: 1/27/2011					
Boring Company: Parratt-Wolff, Inc.							Screen = \ Grout					
Foreman: Markel Chatman							Riser Sand Pack					
OBG Geologist: Jason Newton							Bentonite					
Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
56	29	58	2-2-4-10	2.0/1.75	6	0-1.4 White (N9) to light gray (N7), faint to distinct light gray (N7) and med. dark gray (N4) laminations common, SILT, little f-m SAND sized particles in a paste-like matrix w/ cemented laminations. Pale yellowish orange (10YR 8/6) above contact. 1.4-1.75 ft Dark yellowish brown (10YR 4/2), wet, firm to stiff, SILT, trace clay, trace f sand, trace roots and plant fragments.	Solvay Waste	\		\	3.0	1040
58	30	60	5-8-12-15	2.0/1.75	20	0-1.75 Dark yellowish brown (10 YR 4/2), moist, hard, SILT, trace clay, trace plant fragments	57.4'	\		\	0.5	1056
60	31	62	10-12-12-14	2.0/1.65	24	0-0.7 Dark yellowish brown (10 YR 4/2), moist, hard, SILT, trace clay. 0.7-1.65 Moderate-yellowish brown (10YR 5/4) faint dark yellowish orange (10YR 6/6) and med. dark gray (N4) mottling throughout, damp to moist, hard/med. dense, SILT, trace f sand.	Silt and Sand	\		\	3.6	1101
62	32	64	3-3-5-5	2.0/1.6	8	0-1.6 Yellowish brown (10YR 5/2) w/ fine, distinct, dark yellowish orange (10YR 6/6) and grayish black (N2) laminations common, moist to saturated, SILT, trace f sand, trace clay		\		\	0.5	1124
64	33	66	6-5-9-11	2.0/1.35	14	0-1.35 Yellowish brown (10YR 5/2), faint to distinct dark gray (N3) to grayish black (N2) laminations, saturated, med. dense/stiff, SILT, little f sand, one 0.1 ft clayey silt lense.		\		\	0.4	1130
66	34	68	7-9-12-14	2.0/1.2	21	0-1.2 Olive gray (5Y 3/2), saturated, med. Dense, SILT inter layer with f to f-m sand, increasing sand content with depth, trace shell fragment.		\		\	3.7	1240
68	35	70	11-14-17-18	2.0/1.25	31	0-1.25 Olive black (5Y 2/1), saturated, dense, f SAND, some m sand, little silt, trace shell fragments.	F to FM Sand	\		\	3.0	1248
70	36	72	7-8-6-5	2.0/2.0	14	0-0.8 SAA. 0.8-1.9 Reddish brown (10R 4/4), moist, stiff, clayey SILT, cohesive, slight to low plasticity. 1.9-2.0 Olive black (5Y 2/1), saturated, med. dense, f-m SAND, tr. silt.	Clayey Silt with Fine Sand	\		\	1.7	1453

No samples taken from 0-78 ft bgs, descriptions taken from SB915-MW-91BR.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-91SN
Client: Honeywell	Sampler: 2" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: Auto	Start Date: 1/27/2011
File No.: 1163/46698	Fall: NA	End Date: 1/27/2011
Boring Company: Parratt-Wolff, Inc. Foreman: Markel Chatman OBG Geologist: Jason Newton		Screen = \ Grout Riser Sand Pack Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
72	37	74	5-7-14-50	2.0/1.7	21	0-1.6 Reddish brown (10YR 4/4), moist, stiff to hard, clayey SILT to SILT and clay w/ few light brown (5YR 5/6) partings of SILT, cohesive, slight to low plasticity. 1.6-1.7 Dark yellowish brown (10YR 4/2) w/ pale olive (10Y 6/2) and grayish red (10R 4/2) flecks throughout, wet, very dense, f-m-c GRAVEL, little m-c sand, little f sand.	73.6'		\		0.9	1502
74	38	74.7	65-50/0.2	0.7/0.7	>50	0-0.7 Yellowish brown (10 YR 5/2), saturated, extremely dense, pale olive (10Y 6/2) and grayish red (10R 4/2), well-graded, f-m-c GRAVEL, some f sand and silt.	Gravel				0.8	1550
76	39	76.8	45-50/0.3	0.8/0.8	>50	0-0.8 SAA, coarse GRAVEL stuck in spoon nose	FMC Sand Angular Shale				0.4	1622
78	2	80	NA	2.0/0.2	NA	(10YR 5/4), angular m-c gravel, little m-c angular sand, little silt.			=		NA	1/27/2011 1355
80	3	82	NA	2.0/0.0	NA	No recovery.			=		NA	1412
82	4	84	NA	2.0/0.2	NA	Wet to saturated, pale brown (5YR 6/2), f-m-c gravel, some f-m-c sand, some silt, trace clay.			=		NA	1436
84	5	86	NA	2.0/0.4	NA	0-0.4 Damp to wet, moderate yellowish brown (10YR 5/4), f-m-c angular shale fragments, little f-m-c sand and silt.			=		NA	1500
86	6	88	NA	2.0/0.2	NA	0-0.2 Wet, saturated, moderate yellowish brown (10YR 5/4), f-m-c gravel, some f-m-c sand, little silt and clay.			=		NA	1515
						End of boring at 88 ft bgs						
						Well Installation details:						
						Screen: 78-88 ft						
						Riser: +2-78						
						Sand Pack: 76-88						
						Sand Choke: 73-76						
						Grout: 0-73						

No samples taken from 0-78 ft bgs, descriptions taken from SB915-MW-91BR. Where the blow counts are NA and the N value is NA an auto hammer was used.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92BR
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 10/14/2010**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/22/2011**
Boring Company: GeoLogic, Inc.		**Screen = \ Grout**
Foreman: Scott Breeds		**Riser Sand Pack**
OBG Geologist: C. Yuri Veliz / J.Bone / P. Freyer / R.Trent / N. Kranes		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Pentr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	3-5-5-7	2.0/1.5	10	0-1.5 Medium Dense, dry, dark yellowish brown (10YR 4/2) MC GRAVEL with f-c sand, some silt	Berm	\		\	0.0	830
2	2	4	10-7-13-13	2.0/1.5	20	0-1.5 SAA	5'	\		\	0.0	835
4	3	6	35-27-42-50/0.2	1.7/1.7	69	0-1.0 SAA. 1.0-1.7 Dry, very dense, white (N9) SILT and SAND sized particles in a cemented matrix	Solvay Waste	\		\	0.0	900
6	4	8	12-50/0.2	0.8/0.6	>50	0-0.6 Very dense, white (N9) to light gray (N7) SILT and SAND sized particles in a cemented matrix		\		\	0.0	915
8	5	10	50/0.2	0.2/0.0	>50	No Recovery		\		\	NA	930
10	6	12	3-7-5-6	2.0/1.0	12	0-1.0 Medium dense, white (N9) to light gray (N7) SILT and SAND sized particles in a cemented matrix		\		\	0.0	940
12	7	14	6-5-7-5	2.0/0.0	12	No Recovery		\		\	NA	945
14	8	16	7-7-5-10	2.0/1.5	12	0-1.5 Medium dense, white (N9) to medium gray (N5) banded SILT and SAND sized particles in a cemented matrix		\		\	0.0	1015
16	9	18	17-17-12-15	2.0/1.5	29	0-1.5 SAA		\		\	0.0	1030
18	10	20	20-17-16-14	2.0/1.5	23	0-1.5 SAA		\		\	0.0	1100
20	11	22	8-22-20-10	2.0/1.5	42	0-1.5 SAA		\		\	0.0	1115
22	12	24	12-7-10-10	2.0/1.5	17	0-1.0 SAA		\		\	0.0	1130
24	13	26	12-32-14-13	2.0/1.5	46	0-1.5 SAA Light gray (N7)		\		\	0.0	1145
26	14	28	3-4-5-7	2.0/2.0	9	0-2.0 Stiff, white (N9) and medium gray (N5) SILT sized particles, consolidated to lightly cemented matrix		\		\	0.0	1200
28	15	30	2-5-1-2	2.0/2.0	6	0-2.0 SAA		\		\	0.0	1300
30	16	32	2-2-6-3	2.0/2.0	8	0-2.0 SAA		\		\	0.0	1310
32	17	34	5-3-2-2	2.0/2.0	5	0-2.0 SAA		\		\	0.0	1320
34	18	36	3-1-2-2	2.0/2.0	3	0-2.0 SAA		\		\	0.0	1330
36	19	38	3-2-6-4	2.0/1.5	8	0-1.5 SAA		\		\	0.0	1335
38	20	40	2-2-7-7	2.0/2.0	9	0-2.0 SAA		\		\	0.0	1345
40	21	42	4-3-3-3	2.0/1.5	6	0-1.5 SAA		\		\	0.0	1400
42	22	44	2-3-7-5	2.0/1.5	10	0-1.5 SAA		\		\	0.0	1415
44	23	46	WH-WH-1-2	2.0/1.75	1	0-1.75 SAA		\		\	0.0	1435
46	24	48	1-2-3-1	2.0/1.5	5	0-1.5 SAA		\		\	0.0	1450
48	25	50	4-1-1-1	2.0/1.75	2	0-1.75 SAA		\		\	0.0	1455
50	26	52	4-3-1-1	2.0/1.75	4	0-1.75 SAA		\		\	0.0	1500
52	27	54	6-5-6-4	2.0/1.25	11	0-1.25 SAA		\		\	0.0	1520
54	28	56	3-1-2-1	2.0/1.5	3	0-1.5 SAA		\		\	0.0	1535

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/14/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 2/22/2011
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: C. Yuri Veliz / J.Bone / P. Freyer / R.Trent / N. Kranes		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Pentr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
56	29	58	9-13-17-32	2.0/1.75	30	0-1.75 Very hard, moist, pale brown (5YR 3/2) SILT, some clay with many fine distinct patchs of pale red (5 R 6/2).	56' Silt	\ \	0.0	1545
58	30	60	17-25-24-27	2.0/1.75	49	0-1 SAA. 1-1.75 Dense, wet, olive gray (5Y 3/2) SILT, some fine sand, trace vegetation.		\ \	0.0	1555
60	31	62	7-9-14-16	2.0/1.6	23	0-1.6 Very stiff, wet, pale brown (5YR 5/2) SILT, some fine sand, occasional mottling with SAA olive gray (5Y 3/2).		\ \	0.0	10/18/10 1513
62	32	64	25-22-20-18	2.0/1.75	42	0-1.75 Hard, wet to saurated, pale brown (5YR 5/2) SILT, some fine sand, trace black mottling at 63.8-64 ft.		\ \	0.0	1525
64	33	66	12-21-15-15	2.0/0.8	36	0-0.8 Hard, wet to saturated, olive gray (5Y 3/2) SILT, little f sand, black mottling and pale red (5R 6/2) laminations at 64.5 ft.		\ \	0.0	1549
66	34	68	14-12-16-14	2.0/1.5	28	0-1.5 Very stiff, wet to saturated, pale brown (5YR 5/2) SILT, some f sand.	68'	\ \	0.0	1605
68	35	68.9	30-50/4	0.9/0.5	50+	0-0.9 Very Dense, wet, dark gray (N3) c-f GRAVEL, some c-f sand, trace silt.	Sand and Gravel	\ \	0.0	NA
70	36	70.6	59-50/0.2	0.8/0.6	50+	0-0.6 SAA, some matrix supported.		\ \	0.0	NA
72	37	74	30-38-36-48	2.0/1.0	74	0-0.4 SAA, wet to saturated. 0.4-1.0 Very dense, wet to saturated, pale brown (5YR 5/2) c-f GRAVEL and c-f sand, little silt.		\ \	0.0	10/19/10 0745
74	38	76	23-15-20-32	2.0/0.7	35	0-0.7 SAA, dense, saturated. Lost 50 gallons of mud from 73 - 75 ft.		\ \	0.0	750
76	39	78	22-23-24-28	2.0/1.5	47	0-1.5 SAA, dense, wet to saturated.		\ \	0.0	830
78	40	80	46-23-35-48	2.0/1.8	58	0-1.8 SAA, very dense, saturated, advance casing to 78 ft.		\ \	0.0	845
80	41	82	31-26-29-26	2.0/1.8	55	0-1.8 SAA, very dense, saturated.		\ \	0.0	1100
82	42	84	19-23-25-38	2.0/1.0	48	0-1.0 SAA, dense, wet to saturated. Mud breakdown, possible high chloride groundwater. Lost ~100 gallons fluid to formation.		\ \	0.0	NA
84	43	86	18-14-9-10	2.0/0.5	23	Advance casing to 84 ft. 0-0.5 Medium Dense, saturated, pale brown (5YR 5/2), c-f GRAVEL, some c-f sand, trace silt.		\ \	0.0	1630
86	44	88	23-25-23-20	2.0/1.0	48	0-1.0 Dense, saturated, pale brown (5YR 5/2), c-f GRAVEL and c-f sand, little silt.		\ \	0.0	1645
88	45	90	15-20-18-40	2.0/1.0	38	0-1.0 Dense, saturated, pale brown (5YR 5/2), m-c SAND and f-m gravel, some c gravel, little silt and f sand.		\ \	0.0	10/20/10 0800
90	46	92	22-18-11-7	2.0/1.0	29	c SAND and f-m gravel, some c gravel, little silt and f sand.		\ \	0.0	915

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	Hammer: 140-lb drop	Start Date: 10/14/2010
File No.: 1163/46698	Fall: 30"	End Date: 2/22/2011
Boring Company: GeoLogic, Inc.		Screen = \ Grout
Foreman: Scott Breeds		Riser Sand Pack
OBG Geologist: C. Yuri Veliz / J.Bone / P. Freyer / R.Trent / N. Kranes		Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Pentr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
92	47	94	10-11-43-17	2.0/1.1	54	0-1.1 Very dense, saturated, pale brown (5YR 5/2) well graded f-m-c SAND and f-m subrounded to subangular gravel, some c gravel, little silt.	Sand and Gravel	\ \	0.0	920
94	48	96	22-48-17-50/0.2	1.7/1.5	65	0-1.5 Very dense, saturated, pale brown (5YR 5/2) well graded f-m-c SAND, some subangular to subrounded f-m gravel, little to some silt, trace c gravel.		\ \	0.0	1016
96	49	98	75-26-35-40	2.0/1.2	61	0-1.2 Very dense, saturated, brownish gray (5YR 4/1) well graded f-m-c SAND, some f gravel and silt, little m gravel, trace c gravel. Two 0.1 ft lenses of f-m-c sand in a f sand and silt matrix.		\ \	0.0	1108
98	50	100	35-22-25-27	2.0/1.8	47	0-1.8 Dense, saturated, brownish gray (5YR 4/1) well graded m-c SAND, some subangular to subrounded f gravel, little silt and m gravel, trace c gravel. Two 0.1 ft lenses of m-c sand in a silt and f sand matrix.		\ \	0.0	1114
100	51	102	14-14-13-13	2.0/1.0	27	0-1.0 Medium dense, saturated, brownish gray (5YR 4/1), m-c sand, some f-m gravel, trace silt.		\ \	0.0	1154
102	52	104	12-20-28-24	2.0/1.5	48	0-1.5 SAA.		\ \	0.0	1204
104	53	106	12-20-38-19	2.0/1.0	58	0-1.0 SAA, very dense, little silt.		\ \	0.0	1345
106	54	108	20-22-18-16	2.0/1.3	40	0-1.3 Dense, saturated, brownish gray (5YR 4/1), m-c SAND, some f-m subrounded gravel, little silt.		\ \	0.0	1355
108	55	110	25-28-35-22	2.0/1.3	63	0-1.3 Very dense, saturated, light brownish gray (5YR 6/1) f-m-c SAND , little silt, trace f-m subangular gravel.		\ \	0.0	1453
110	56	112	20-28-28-35	2.0/1.4	56	0-0.3 Very dense, saturated, brownish gray (5YR 4/1) m-c SAND. 0.3-1.4 Very dense, light brownish gray (5YR 6/1) f-m-c SAND, some silt, little f-m subangular gravel.	112.8'	\ \	0.0	1540
112	57	114	24-15-26-20	2.0/1.0	41	0-0.8 SAA. 0.8-1.0 Dense, wet, dark reddish brown (10R 3/4) SILT, m-c sand and little f gravel, silt matrix suupported.	Till	\ \	0.0	1550
114	58	115.7	25-38-48-50/0.2	1.7/0.0	86	No Recovery		\ \	0.0	10/21/10 0848
116	59	118	22-35-48-60	2.0/1.5	83	0-1.5 Extremely dense, moist, pale reddish brown (10R 5/4) SILT, split graded, some m - c sand and f gravel, little m gravel, silt matrix supported.		\ \	0.0	930
						5" steel casing set 0-116 ft bgs. Using HQ core barrel to sample 116 ft to top of bedrock		\ \		

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92BR
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 10/14/2010**
File No.: 1163/46698	**Fall: 30"**	**End Date: 2/22/2011**
Boring Company: GeoLogic, Inc.		**Screen = \ Grout**
Foreman: Scott Breeds		**Riser Sand Pack**
OBG Geologist: C. Yuri Veliz / J.Bone / P. Freyer / R.Trent / N. Kranes		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Pentr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
118	60	119.7	NA	3.7/0.3*	NA	0-0.3 Dense, wet, dark reddish brown (10R 3/4) SILT, some clay slightly cohesive matrix supporting c angular sand an fmc angular gravel.		\		\	0.0	2/3/11 0930
119.7	61	124.7	NA	5.0/2.0*	NA	0-2.0 SAA, few large (0.2 ft) cobble fragments					0.0	1000
124.7	62	126.3	NA	1.6/0.4*	NA	0-0.4 Loose cobbles in core barrel, stuck in end and preventing barrel from advancing.		\		\	0.0	1100
126.3	63	127.3	NA	1.0/1.0*	NA	0-1.0 SAA appears to be a very coarse gravel and cobble unit. Drilling to 128.0 using 3 7/8" roller bit.		\		\	NA	1330
128	64	128.6	NA**	0.6/0.6	NA**	Three inch spoon. Spoon refusal at 128.6, dark gray, very coarse gravel in nose of spoon. Race of silt and f sand, moderate red matrix on pice of gravel. Believe matrix was washed washed out during drilling. Drilling to 130.0 ft		\		\	NA	2/4/11 1130
130	65	130.4	NA**	0.4/0.4	NA**	Three inch spoon. SAA, drilling to 134.0 ft bgs		\		\	NA	2/7/11 0900
134	66	134.5	150/0.5**	0.5/0.5	NA**	Three inch spoon. 0-0.5 Very dense saturated, med dark gray (N4) mc sand with little silt matrix supporting fmc subangular gravel, trace large cobble piece. Gravel pieces are greenish gray (5GY 6/1) and dark reddish brown (10R 3/4)		\		\	NA	1200
134.5	67	138	NA	NA	NA	No sample collected, drilled to 138 ft bgs. During drilling, drill fluid transitioned to reddish brown in color with silt and clay pieces returning to surface.		\		\	NA	1415
138	68	140	40-80-80-105	2.0/1.5	160	0-1.5 Very hard, wet reddish brown (10R 3/4) SILT and Clay matrix supporting mc sand, some fm angular to subangular gravel.		\		\	NA	1440
140	69	141	NA	1.0/1.0*	NA	0-1.0 SAA could only advance "H" barrel 1.0 ft due to clay content and cohesivness of the silt and clay in the till.		\		\	NA	1630
143	70	144.7	55-50-100-100/0.2	1.7/1.7	150	Drilled to 143 ft using roller bit. 0-1.7 SAA		\		\	NA	2/8/11 1145
149	71	149.5	200/0.5	0.5/0.5	>200	Drilled to 149 ft using roller bit. 0-0.3 SAA, 0.3-0.5 Med dark gray rock fragments, shale, possibly bedrock.		\		\	NA	1500
149.5	72	151.5	NA	2.0/2.0*	NA	SAA (143-144.7 ft) Rock in end of 149-149.5 ft sample was large cobble/gravel.		\		\	NA	2/9/11 1145

* HQ core barrel

** Three inch spoon

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92BR
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SCA
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 10/14/2010
File No.: 1163/46698	**Fall:** 30"	**End Date:** 2/22/2011
Boring Company: GeoLogic, Inc.		**Screen** = \ **Grout**
Foreman: Scott Breeds		**Riser** **Sand Pack**
OBG Geologist: C. Yuri Veliz / J.Bone / P. Freyer / R.Trent / N. Kranes		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Pentr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
154	73	159.5	NA	4.5/4.5*	NA	Drilled to 154 ft using roller bit. 0-4.5 Very hard, wet, reddish brown (10R 3/4) SILT, little clay matrix supporting some mc subrounded gravel and some large cobbles, little mc sand.		\ \	NA	1450
159.5	74	164.5	NA	5.0/3.0*	NA	0-3.0 Mostly med-large subrounded gravel, little reddish brown (10R 3/4) silt and clay matrix.		\ \	NA	1700
164.5	75	167.5	NA	3.0/3.0*	NA	0-3.0 Very hard, wet, reddish brown (10R 3/4) SILT and some clay matrix, supporting few mc subrounded gravel, trace large rounded cobbles, trace c sand.		\ \	NA	2/10/11 0900
170	76	174.5	NA	4.5/4.5*	NA	Drilled to 170 ft using roller bit. 0-4.5 SAA, 4.2-4.5 fracture and weathered shale, possible bedrock	174.5' Shale			1430
174.5	77	178.5	NA	4.0/3.5*	NA	0-3.5 SHALE, weathered med dark gray. Set 4 in. permanent steel casing at 176.5 ft. bgs.				1530
178.5	78	182	NA	NA*	NA	SHALE, heavily weathered.				2/11/11
182	79	183	NA	NA***	NA	SHALE, heavily weathered.				2/15/11
183	80	183.2	NA	NA	NA	2 in. spoon. SHALE				2/16/11
183.2	81	183.4	NA	NA***	NA	SHALE, heavily weathered.				2/16/11
183.4	82	187	NA	NA*	NA	No sample collected, drilled to 187 ft using roller bit.		=		2/17/11
187	83	190	NA	NA*	NA	SHALE		=		2/17/11
190	84	194	NA	NA*	NA	SHALE		=		2/17/11
						End of boring at 194 ft bgs				
						Well Construction Details:				
						Screen (10 Slot): 184-194 ft				
						Riser: +2-184 ft				
						Sand Pack: 182-194 ft				
						Sand Choke: 173.5-182 ft				
						Grout: 0-173.5 ft				

* HQ core barrel

*** N core barrel

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13221

CORE LOG

Hole No.: SB915-MW-92BR | Job No.: 1163\46698

Sheet 1 of 1 | Project: Wastebed 13 SCA

Formation Member Unit	Run No. Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1 179.0- 181.2		179.0 181.0	SHALE, greenish gray (5G 6/1) fine grain, massive, horizontal bedding. Fractures at 179.4', 180.1', becomes very weathered at 180.55', greenish gray silt and clay weathered shale.	1.8	81%	75%
	2 181.2- 182.0		181.2 182.0	SHALE, heavily weathered greenish gray (5G 6/1), mostly silt and clay matrix with some rock fragments, slightly competent rock in the last 0.05', silty and clayey material is moderately cohesive.	0.8	80%	0%
	3 182.0- 183.0		182.0 183.0	SHALE, heavily weathered greenish gray (5G 6/1), mostly silt and clay matrix with some rock fragments, silty and clayey material is moderately cohesive.	1	100%	0%
	- 183.0- 187.0		183.0 187.0	Drilled from 183.0' to 187.0' bgs using 3 7/8" roller bit	NA	NA	NA
	4 187.0- 194.0		188.0 192.0	SHALE, greenish gray (5G 6/1) heavily weathered with zones of extremely weathered rock, similar to 181.2'-182.0' and 182.0'-183.0'. Vertical and hoizontal fractures throughout.	7.0	100%	0%
			193.0 194.0				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/18/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 1/19/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chatman		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	3-5-5-7	2.0/1.5	10	0-1.5 Medium Dense, dry, dark yellowish brown (10YR 4/2) MC GRAVEL with f-c sand, some silt	Berm	\		\	0.0	830
2	2	4	10-7-13-13	2.0/1.5	20	0-1.5 SAA	5'	\		\	0.0	835
4	3	6	35-27-42-50/0.2	1.7/1.7	69	0-1.0 SAA. 1.0-1.7 Dry, very dense, white (N9) SILT and SAND sized particles in a cemented matrix	Solvay Waste	\		\	0.0	900
6	4	8	12-50/0.2	0.8/0.6	>50	0-0.6 Very dense, white (N9) to light gray (N7) SILT and SAND sized particles in a cemented matrix		\		\	0.0	915
8	5	10	50/0.2	0.2/0.0	>50	No Recovery		\		\	NA	930
10	6	12	3-7-5-6	2.0/1.0	12	0-1.0 Medium dense, white (N9) to light gray (N7) SILT and SAND sized particles in a cemented matrix		\		\	0.0	940
12	7	14	6-5-7-5	2.0/0.0	12	No Recovery		\		\	NA	945
14	8	16	7-7-5-10	2.0/1.5	12	0-1.5 Medium dense, white (N9) to medium gray (N5) banded SILT and SAND sized particles in a cemented matrix		\		\	0.0	1015
16	9	18	17-17-12-15	2.0/1.5	29	0-1.5 SAA		\		\	0.0	1030
18	10	20	20-17-16-14	2.0/1.5	23	0-1.5 SAA		\		\	0.0	1100
20	11	22	8-22-20-10	2.0/1.5	42	0-1.5 SAA		\		\	0.0	1115
22	12	24	12-7-10-10	2.0/1.5	17	0-1.0 SAA		\		\	0.0	1130
24	13	26	12-32-14-13	2.0/1.5	46	0-1.5 SAA Light gray (N7)		\		\	0.0	1145
26	14	28	3-4-5-7	2.0/2.0	9	0-2.0 Stiff, white (N9) and medium gray (N5) SILT sized particles, consolidated to lightly cemented matrix		\		\	0.0	1200
28	15	30	2-5-1-2	2.0/2.0	6	0-2.0 SAA		\		\	0.0	1300
30	16	32	2-2-6-3	2.0/2.0	8	0-2.0 SAA		\		\	0.0	1310
32	17	34	5-3-2-2	2.0/2.0	5	0-2.0 SAA		\		\	0.0	1320
34	18	36	3-1-2-2	2.0/2.0	3	0-2.0 SAA		\		\	0.0	1330
36	19	38	3-2-6-4	2.0/1.5	8	0-1.5 SAA		\		\	0.0	1335
38	20	40	2-2-7-7	2.0/2.0	9	0-2.0 SAA		\		\	0.0	1345
40	21	42	4-3-3-3	2.0/1.5	6	0-1.5 SAA		\		\	0.0	1400
42	22	44	2-3-7-5	2.0/1.5	10	0-1.5 SAA		\		\	0.0	1415
44	23	46	WH-WH-1-2	2.0/1.75	1	0-1.75 SAA		\		\	0.0	1435
46	24	48	1-2-3-1	2.0/1.5	5	0-1.5 SAA		\		\	0.0	1450
48	25	50	4-1-1-1	2.0/1.75	2	0-1.75 SAA		\		\	0.0	1455
50	26	52	4-3-1-1	2.0/1.75	4	0-1.75 SAA		\		\	0.0	1500
52	27	54	6-5-6-4	2.0/1.25	11	0-1.25 SAA		\		\	0.0	1520
54	28	56	3-1-2-1	2.0/1.5	3	0-1.5 SAA	56'	\		\	0.0	1535

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/18/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 1/19/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chatman		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
56	29	58	9-13-17-32	2.0/1.75	30	0-1.75 Very hard, moist, pale brown (5YR 3/2) SILT, some clay with many fine distinct patchs of pale red (5 R 6/2).		\ \	0.0	1545
58	30	60	17-25-24-27	2.0/1.75	49	0-1 SAA. 1-1.75 Dense, wet, olive gray (5Y 3/2) SILT, some fine sand, trace vegetation.	Silt	\ \	0.0	1555
60	31	62	7-9-14-16	2.0/1.6	23	0-1.6 Very stiff, wet, pale brown (5YR 5/2) SILT, some fine sand, occasional mottling with SAA olive gray (5Y 3/2).		\ \	0.0	10/18/10 1513
62	32	64	25-22-20-18	2.0/1.75	42	0-1.75 Hard, wet to saurated, pale brown (5YR 5/2) SILT, some fine sand, trace black mottling at 63.8-64 ft.		\ \	0.0	1525
64	33	66	12-21-15-15	2.0/0.8	36	0-0.8 Hard, wet to saturated, olive gray (5Y 3/2) SILT, little f sand, black mottling and pale red (5R 6/2) laminations at 64.5 ft.		\ \	0.0	1549
66	34	68	14-12-16-14	2.0/1.5	28	0-1.5 Very stiff, wet to saturated, pale brown (5YR 5/2) SILT, some f sand.	68'	\ \	0.0	1605
68	35	68.9	30-50/4	0.9/0.5	50+	0-0.9 Very Dense, wet, dark gray (N3) c-f GRAVEL, some c-f sand, trace silt.	Sand and Gravel	\ \	0.0	NA
70	36	70.6	59-50/0.2	0.8/0.6	50+	0-0.6 SAA, some matrix supported.		\ \	0.0	NA
72	37	74	30-38-36-48	2.0/1.0	74	0-0.4 SAA, wet to saturated. 0.4-1.0 Very dense, wet to saturated, pale brown (5YR 5/2) c-f GRAVEL and c-f sand, little silt.		\ \	0.0	10/19/10 0745
74	38	76	23-15-20-32	2.0/0.7	35	0-0.7 SAA, dense, saturated. Lost 50 gallons of mud from 73 - 75 ft.		\ \	0.0	750
76	39	78	22-23-24-28	2.0/1.5	47	0-1.5 SAA, dense, wet to saturated.		\ \	0.0	830
78	40	80	46-23-35-48	2.0/1.8	58	0-1.8 SAA, very dense, saturated, advance casing to 78 ft.		\ \	0.0	845
80	41	82	31-26-29-26	2.0/1.8	55	0-1.8 SAA, very dense, saturated.		\ \	0.0	1100
82	42	84	19-23-25-38	2.0/1.0	48	0-1.0 SAA, dense, wet to saturated. Mud breakdown, possible high chloride groundwater. Lost ~100 gallons fluid to formation.		\ \	0.0	NA
84	43	86	18-14-9-10	2.0/0.5	23	saturated, pale brown (5YR 5/2), c-f GRAVEL,		\ \	0.0	1630
86	44	88	23-25-23-20	2.0/1.0	48	0-1.0 Dense, saturated, pale brown (5YR 5/2), c-f GRAVEL and c-f sand, little silt.			0.0	1645
88	45	90	15-20-18-40	2.0/1.0	38	0-1.0 Dense, saturated, pale brown (5YR 5/2), m-c SAND and f-m gravel, some c gravel, little silt and f sand.			0.0	10/20/10 0800
90	46	92	22-18-11-7	2.0/1.0	29	0-1.0 Medium dense, saturated, well graded m-c SAND and f-m gravel, some c gravel, little silt and f sand.			0.0	915
92	47	94	NA	2.0/1.3	NA	Very dense, saturated, pale brown (5YR 5/2), well graded f-m-c sand, some f-m subrounded to subangular gravel, little silt.		=	0.0	1/19/2011 0915

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/18/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 1/19/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chatman		**Riser Sand Pack**
OBG Geologist: Nate Vogan		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
94	48	96	NA	2.0/1.7	NA	Very Dense, saturated, pale brown (5YR 3/2) well graded f-m-c sand, some f-m-c subrounded subangular to subrounded gravel, little to some silt.			=		0.0	930
96	49	98	NA	1.0/0.6	NA	SAA, increase in f-m-c subrounded to subangular gravel.			=		0.0	1015
98	50	100	NA	2.0/1.2	NA	Very dense, saturated, pale brown (5YR 5/2), f-m subrounded to subangular gravel, some well graded f-m-c sand, little silt.			=			
100	51	102	NA	2.0/1.2	NA	Very dense, saturated, pale brown (5YR 5/2), well graded f-m-c sand, some f-m subrounded to subangular gravel, little silt, trace c gravel.			=		0.0	1130
						End of boring at 102 ft bgs						
						Well contrstuction details						
						Screen: 92-102 ft						
						Riser: +2.5-92 ft						
						Sand Pack: 90-102 ft						
						Sand Choke: 87-90 ft						
						Grout: 0-87 ft						

No samples taken from 0-69 ft, descriptions taken from SB915-MW-92BR. Where the blow counts are NA and the N value is NA an auto hammer was used.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: Auto**	**Start Date: 1/20/2011**
File No.: 1163/46698	**Fall: NA**	**End Date: 1/20/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chatman		**Riser Sand Pack**
OBG Geologist: Nate Vogan / Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed				Field Testing PID (ppm)	Field Testing Time
0	1	2	3-5-5-7	2.0/1.5	10	0-1.5 Medium Dense, dry, dark yellowish brown (10YR 4/2) MC GRAVEL with f-c sand, some silt	Berm	\		\		0.0	830
2	2	4	10-7-13-13	2.0/1.5	20	0-1.5 SAA	5'	\		\		0.0	835
4	3	6	35-27-42-50/0.2	1.7/1.7	69	0-1.0 SAA. 1.0-1.7 Dry, very dense, white (N9) SILT and SAND sized particles in a cemented matrix	Solvay Waste	\		\		0.0	900
6	4	8	12-50/0.2	0.8/0.6	>50	0-0.6 Very dense, white (N9) to light gray (N7) SILT and SAND sized particles in a cemented matrix		\		\		0.0	915
8	5	10	50/0.2	0.2/0.0	>50	No Recovery		\		\		NA	930
10	6	12	3-7-5-6	2.0/1.0	12	0-1.0 Medium dense, white (N9) to light gray (N7) SILT and SAND sized particles in a cemented matrix		\		\		0.0	940
12	7	14	6-5-7-5	2.0/0.0	12	No Recovery		\		\		NA	945
14	8	16	7-7-5-10	2.0/1.5	12	0-1.5 Medium dense, white (N9) to medium gray (N5) banded SILT and SAND sized particles in a cemented matrix		\		\		0.0	1015
16	9	18	17-17-12-15	2.0/1.5	29	0-1.5 SAA		\		\		0.0	1030
18	10	20	20-17-16-14	2.0/1.5	23	0-1.5 SAA		\		\		0.0	1100
20	11	22	8-22-20-10	2.0/1.5	42	0-1.5 SAA		\		\		0.0	1115
22	12	24	12-7-10-10	2.0/1.5	17	0-1.0 SAA		\		\		0.0	1130
24	13	26	12-32-14-13	2.0/1.5	46	0-1.5 SAA Light gray (N7)		\		\		0.0	1145
26	14	28	3-4-5-7	2.0/2.0	9	0-2.0 Stiff, white (N9) and medium gray (N5) SILT sized particles, consolidated to lightly cemented matrix		\		\		0.0	1200
28	15	30	2-5-1-2	2.0/2.0	6	0-2.0 SAA		\		\		0.0	1300
30	16	32	2-2-6-3	2.0/2.0	8	0-2.0 SAA		\		\		0.0	1310
32	17	34	5-3-2-2	2.0/2.0	5	0-2.0 SAA		\		\		0.0	1320
34	18	36	3-1-2-2	2.0/2.0	3	0-2.0 SAA		\		\		0.0	1330
36	19	38	3-2-6-4	2.0/1.5	8	0-1.5 SAA		\		\		0.0	1335
38	20	40	2-2-7-7	2.0/2.0	9	0-2.0 SAA		\		\		0.0	1345
40	21	42	4-3-3-3	2.0/1.5	6	0-1.5 SAA		\		\		0.0	1400
42	22	44	2-3-7-5	2.0/1.5	10	0-1.5 SAA		\		\		0.0	1415
44	23	46	WH-WH-1-2	2.0/1.75	1	0-1.75 SAA		\		\		0.0	1435
46	24	48	1-2-3-1	2.0/1.5	5	0-1.5 SAA		\		\		0.0	1450
48	25	50	4-1-1-1	2.0/1.75	2	0-1.75 SAA		\		\		0.0	1455
50	26	52	4-3-1-1	2.0/1.75	4	0-1.75 SAA		\		\		0.0	1500
52	27	54	6-5-6-4	2.0/1.25	11	0-1.25 SAA		\		\		0.0	1520
54	28	56	3-1-2-1	2.0/1.5	3	0-1.5 SAA		\		\		0.0	1535

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SCA**
Proj. Loc: Wastebed 13 SCA Camillus, NY	**Hammer: Auto**	**Start Date: 1/20/2011**
File No.: 1163/46698	**Fall: NA**	**End Date: 1/20/2011**
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Markel Chatman		**Riser** **Sand Pack**
OBG Geologist: Nate Vogan / Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
56	29	58	9-13-17-32	2.0/1.75	30	0-1.75 Very hard, moist, pale brown (5YR 3/2) SILT, some clay with many fine distinct patchs of pale red (5 R 6/2).	Silt	\ \	0.0	1545
58	30	60	17-25-24-27	2.0/1.75	49	0-1 SAA. 1-1.75 Dense, wet, olive gray (5Y 3/2) SILT, some fine sand, trace vegetation.		\ \	0.0	1555
60	31	62	7-9-14-16	2.0/1.6	23	0-1.6 Very stiff, wet, pale brown (5YR 5/2) SILT, some fine sand, occasional mottling with SAA olive gray (5Y 3/2).		\ \	0.0	10/18/10 1513
62	32	64	25-22-20-18	2.0/1.75	42	0-1.75 Hard, wet to saurated, pale brown (5YR 5/2) SILT, some fine sand, trace black mottling at 63.8-64 ft.		\ \	0.0	1525
64	33	66	12-21-15-15	2.0/0.8	36	0-0.8 Hard, wet to saturated, olive gray (5Y 3/2) SILT, little f sand, black mottling and pale red (5R 6/2) laminations at 64.5 ft.			0.0	1549
66	34	68	14-12-16-14	2.0/1.5	28	0-1.5 Very stiff, wet to saturated, pale brown (5YR 5/2) SILT, some f sand.			0.0	1605
68	35	68.9	30-50/4	0.9/0.5	>50	0-0.9 Very Dense, wet, dark gray (N3) c-f GRAVEL, some c-f sand, trace silt.	Sand and Gravel		0.0	NA
69	36	71	NA	0.6/0.0	NA	Poor recovery, spoon refusal, c gravel, some c-m sand.		=	0.0	1/20/2011 1000
71	37	73	NA	0.0/0.0	NA	No Sample, auger through refusal point to next sampling interval.		=	NA	NA
74	38	76	23-15-20-32	2.0/0.7	35	0-0.7 SAA, dense, saturated. Lost 50 gallons of mud from 73 - 75 ft.		=	0.0	750
76	39	78	22-23-24-28	2.0/1.5	47	0-1.5 SAA, dense, wet to saturated.		=	0.0	830
78	40	80	46-23-35-48	2.0/1.8	58	0-1.8 SAA, very dense, saturated.		=	0.0	845
						End of boring at 79 ft bgs				
						Well Construction Details:				
						Screen: 69-79				
						Riser: +2-69				
						Sand Pack: 67-79				
						Sand Choke: 64-67				
						Grout: 0-64				

No samples taken from 0-69 ft, descriptions taken from SB915-MW-92BR. No samples taken from 71 to 79 feet due to spoon refusal, descriptions taken from SB915-MW-92BR. Where the blow counts are NA and the N value is NA an auto hammer was used.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/25/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 1/26/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chapman		**Riser Sand Pack**
OBG Geologist: Jason Newton		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	3-5-5-7	2.0/1.5	10	0-1.5 Medium Dense, dry, dark yellowish brown (10YR 4/2) MC GRAVEL with f-c sand, some silt	Berm	\		\	0.0	830
2	2	4	10-7-13-13	2.0/1.5	20	0-1.5 SAA	5'	\		\	0.0	835
4	3	6	35-27-42-50/0.2	1.7/1.7	69	0-1.0 SAA. 1.0-1.7 Dry, very dense, white (N9) SILT and SAND sized particles in a cemented matrix	Solvay Waste	\		\	0.0	900
6	4	8	12-50/0.2	0.8/0.6	>50	0-0.6 Very dense, white (N9) to light gray (N7) SILT and SAND sized particles in a cemented matrix		\		\	0.0	915
8	5	10	50/0.2	0.2/0.0	>50	No Recovery		\		\	NA	930
10	6	12	3-7-5-6	2.0/1.0	12	0-1.0 Medium dense, white (N9) to light gray (N7) SILT and SAND sized particles in a cemented matrix		\		\	0.0	940
12	7	14	6-5-7-5	2.0/0.0	12	No Recovery		\		\	NA	945
14	8	16	7-7-5-10	2.0/1.5	12	0-1.5 Medium dense, white (N9) to medium gray (N5) banded SILT and SAND sized particles in a cemented matrix		\		\	0.0	1015
16	9	18	17-17-12-15	2.0/1.5	29	0-1.5 SAA		\		\	0.0	1030
18	10	20	20-17-16-14	2.0/1.5	23	0-1.5 SAA		\		\	0.0	1100
20	11	22	8-22-20-10	2.0/1.5	42	0-1.5 SAA		\		\	0.0	1115
22	12	24	12-7-10-10	2.0/1.5	17	0-1.0 SAA					0.0	1130
24	13	26	12-32-14-13	2.0/1.5	46	0-1.5 SAA Light gray (N7)					0.0	1145
26	14	28	3-4-5-7	2.0/2.0	9	0-2.0 Stiff, white (N9) and medium gray (N5) SILT sized particles, consolidated to lightly cemented matrix					0.0	1200
28	15	30	NA	2.0/2.0	NA	0-2.0 Damp to wet, white (N9) and medium gray (N5) bands, silt sized particles, semi-cemented			=		NA	1/26/11 1412
30	16	32	NA	2.0/1.0	NA	0-1.0 Damp, medium gray (N5) and white (N9) bands, SILT sized particles, little fm sand sized particles, semi-cemented			=		NA	1420
32	17	34	NA	2.0/1.5	NA	0-1.5 SAA, trace sand sized particles			=		NA	1424
34	18	36	NA	2.0/1.0	NA	0-1.0 SAA			=		NA	1435
36	19	38	NA	2.0/1.5	NA	0-1.0 SAA with one 1" black (N1) damp, fine SAND sized particles, 1.0-1.5 damp very dry, light gray (N8) medium gray (N5) and light olive gray (5Y 6/1) 1" bands, fm sand and silt, laminated in the medium gray (N5) bands			=		NA	1445
38	20	40	NA	2.0/1.0	NA	0-1.0 Damp, white (N9) to black (N1) bands SILT sized particles, trace fm sand, semi-cemented			=		NA	1500

No samples taken from 0-28 ft. Descriptions taken from SB915-MW-92BR.

Where the blow counts are NA and the N value is NA an auto hammer was used.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-92S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 1/25/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 1/26/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Markel Chapman		**Riser Sand Pack**
OBG Geologist: Jason Newton		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
40	21	42	NA	2.0/1.0	NA	0-1.0 SAA with few 1" light olive gray (5Y 6/1) damp fmc SAND layers, subangular grains		=	NA	1510
42	22	44	NA	2.0/1.0	NA	0-1.0 SAA		=	NA	1524
44	23	46	NA	2.0/1.3	NA	0-1.75 SAA with sand layers		=	NA	1539
46	24	48	NA	2.0/1.5	NA	0-1.5 SAA		=	NA	1542
						End of Boring at 48 ft				
						Well Construction Details:				
						Screen: 28-48 ft				
						Riser: +2.5-28 ft				
						Sand Pack: 26-48 ft				
						Sand Choke: 23-26 ft				
						Grout: 0-23 ft				

No samples taken from 0-28 ft. Descriptions taken from SB915-MW-92BR.

Where the blow counts are NA and the N value is NA an auto hammer was used.

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13221

J. Bone

CORE LOG

8/1/11-8/1/11

Hole No.: SB915-MW-93BR

Job No.: 46698

Sheet 1 of 1

Project: Wastebed 13 SCA

Formation Member Unit	Run No. Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1	0:00	142	Shale, dark gray (N3), fine grain, verythinlylaminated 142-142.6, highly fractured, fractures at 142.15	8.75'	87.5	3%
	1	12:00		(mechanical) 142.35-142.6 Shale, dark greenishgray (56 4/1) fine grain, very thinly laminated, 142.6-			
	1	12:00		148.4 highly fractured fractures at 142.8, 142.9, 145.0, 143.2, 143.3, 144.2, 144.43, 144.65, 144.8,			
	1	7.75		144.9, 145.1, 145.45, 145.5, 145.9(highly fractured), 146.15, 146.25-146.4, 146.6, 146.9, 147.25, 147.3,			
	1	7.5		147.35, 147.4, 147.55, 147.7-147.9, 148.0, 148.2, 148.3, remineralization of gypsum at 145.1,			
	1	4.75					
	1	6.5		145.5, 145.6, ultra thin laminations of gypsum throughout. 148.4-151.75 dark gray (N3) fine grain, very			
	1	8		thinly laminated, highly fractured, fractures at 148.5, 148.55, 148.6, 148.65, 148.9, 149.05, 149.2, 149.3,			
	1	7.5		149.5, 149.8, 149.95, 150.1, 150.2, 150.45, 150.65-150.75, 150.90, 151.3, 151.5, some gypsum			
	1	8	152	remineralization in fractures, some clay deposits, and very thin laminations of gypsum throughout			

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-93BR
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/11/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 8/2/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Jolanne, Layne Pech, Ian Griesse		**Riser Sand Pack**
OBG Geologist: R. Trent, J. Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	20-26-25-24	2.0/1.75	51	Pale brown(5yr 5/2) silt, medium to course gravel, loose, dry little clay	Gravel, little clay	\		\	0.0	1418
2	2	4	24-50/0.4	0.9/0.9	50+	SAA Moderate yellow brown (wyr 5/4)		\		\	0.0	1425
4	3	6	11-16-9-8	2.0/0.5	25	SAA		\		\	0.0	1431
6	4	8	4-8-6-5	2.0/1.25	14	SAA, Damp		\		\	0.0	1442
8	5	10	4-3-3-3	2.0/1.25	6	SAA		\		\	0.0	1450
10	6	12	5-5-4-3	2.0/0.6	9	SAA		\		\	0.0	1455
12	7	14	10-5-18-20	2.0/1.0	33	SAA, Dry		\		\	0.0	1520
14	8	16	8-10-13-16	2.0/1.2	23	SAA		\		\	0.0	1525
16	9	18	8-15-20-22	2.0/1.5	35	SAA, Damp		\		\	0.0	1545
18	10	20	7-8-14-18	2.0/1.5	22	SAA, Increased silt and clay content, Dry		\		\	0.0	1600
20	11	22	13-14-17-16	2.0/1.5	31	SAA, wet from drilling fluids		\		\	0.0	7/12/11 800
22	12	24	8-30-16-18	2.0/2.0	46	SAA, At 23.5' change to Same as above with light olive gray 5y 5/2 and moderate reddish brown 10R 4/6 matrix of clay course sand and fine gravel increased		\		\	0.0	810
24	13	26	15-22-30-25	2.0/1.5	52	SAA		\		\	0.0	830
26	14	28	19-24-38-25	2.0/1.2	62	SAA		\		\	0.0	840
28	15	30	12-11-9-16	2.0/.5	20	Moderate yellowish brown (5YR 5/4) course gravel and silt/clay matrix. Wet (from drilling mud?), dense		\		\	0.0	900
30	16	32	15-16-50/0.3	1.3/1.3	>66	SAA		\		\	0.0	905
32	17	34	11-40-22-16	2.0/1.5	69	SAA		\		\	0.0	930
34	18	36	17-22-23-33	2.0/1.5	45	SAA		\		\	0.0	940
36	19	38	25-37-17-11	2.0/1.5	54	SAA		\		\	0.0	950
38	20	40	21-15-25-11	2.0/1.5	40	SAA		\		\	0.0	1005
40	21	42	9-10-13-11	2.0/1.5	23	SAA		\		\	0.0	1015
42	22	44	10-16-11-21	2.0/1.5	27	SAA		\		\	0.0	1040
44	23	46	8-19-15-15	2.0/1.75	34	SAA		\		\	0.0	1150
46	24	48	10-10-15-32	2.0/1.5	25	SAA		\		\	0.0	1230
48	25	50	50/0	0.0/0.0	>50	No Recovery		\		\	0.0	1330

Augured to 20 ft, started mud rotary @ 20 ft through temporary 5 inch casing

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-93BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: Wastebed 13
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 7/11/2011
File No.: 1163/46698	Fall: 30"	End Date: 8/2/2011
Boring Company: Parratt-Wolff Foreman: Jolanne, Layne Pech, Ian Griesse OBG Geologist: R. Trent, J. Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed		Field Testing PID (ppm)	Field Testing Time
50	26	52	46-30-23-8	2.0/1.0	53	SAA last .4' No course gravel		\	\	0.0	1345
52	27	54	50/0.5	0.5/0.5	>50	SAA				0.0	1400
54	28	56	10-12-14-16	2.0/1.5	26	SAA		\	\	0.0	1530
56	29	58	10-15-10-8	2.0/1.0	25	SAA		\	\	0.0	1550
58	30	60	11-15-16-18	2.0/1.5	31	SAA, Increased fine gravel		\	\	0.0	7/13/11 750
60	31	62	6-8-11-15	2.0/1.5	19	SAA, with fine gravel	62'	\	\	0.0	800
62	32	64	49-40-45-35	2.0/1.5	85	Pale reddish brown (10R 5/4) Silt and medium fravel matrix supported, some fine sand little clay, dry, very dense	Till	\	\	0.0	830
64	33	66	45-50/8	0.8/0.8	>95	SAA		\	\	0.0	900
66	34	68	39-48-39-50	2.0/1.5	87	SAA		\	\	0.0	930
						Coring till using HQ (3.78") Core barrel		\	\		
68	35	69.4	-	1.4/0.5	-	0-0.5 loose. Large subangular gravel, some Small to medium subangular gravel, little silt and fine sand , till matrix broke down during coring		\	\	0.0	7/21/11 1510
69.4	36	74.8		4.8/1.0	-	0-1.0 loose, small medium and large subangular gravel		\	\	0.0	1600
						Switched over to mud rotery will attempt to sample using 3"split spoon		\	\		
74.8	37	74.9	30/0.1	0.1/0.0	-	No recovery		\	\	-	7/22/11 915
						Switching back to HQ core barrel		\	\		
74.9	38	79	-	5.0/0.5	-	0-0.5 Soft, brownish gray (5YR 4/1) silt and fine sand, medium to large round gravel, one large(approx. 2.5") of cemented sand and gravel most likely sluff from drilling and left over gravel, lost approx. 150 gal drill mud		\	\	-	1040
						Driving spoon (3") at 79'		\	\		
79	39	79.4	-	0.4/0.1.	-	0-0.1 Extremly Hard cemented medium to course sand and small to medium subangular gravel		\	\	-	1100
80	40	80.4	100/0.4	0.4/0.0	NA	No recovery 3" split spoon nose came off		\	\	0.0	1336
82.1	41	84.1	-	2.0/0.5	-	Used HQ core barrel loose, saturated, medium to large subangular gravel with fine sand cemented to some larger gravel		\	\	0.0	1630
84	42	86	19-39-50/0.0	1.0/1.0	>89	0-1.0 Very dense, wet, dark yellowish brown 10YR 4/2 Fine medium and course sand and silt matrix supporting medium to course subangular gravel	Till (Sandy matrix)	\	\	-	7/25/11 922
86	43	88	30/0.2	0.2/0.0	>50	No recovery		\	\	0.0	1015
88	44	90	23.50/0.2	0.8/0.8	>73	0-0.8 Very dense, wet, dark yellowish brown (10YR 4/2) fine medium and course sand and silt matrix supporting medium to course subangular gravel, trace large angular gravel		\	\	0.0	1055

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-93BR
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/11/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 8/2/2011**
Boring Company: Parratt-Wolff		**Screen =** **Grout**
Foreman: Jolanne, Layne Pech, Ian Griesse		**Riser** **Sand Pack**
OBG Geologist: R. Trent, J. Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
90	45	92	26-18-5/0.1	1.1/1.0	-	0-1.0 Same as above, less silt		\ \	-	1150
						Drilled to 94' very hard at 94' wanted to drill through it, to ensure good sample recovery		\ \		
90	45	92	26-18-5/0.1	1.1/1.0	-	0-1.0 Same as above, less silt		\ \	-	1150
						Fluid loss apporox. 100 gallons below 84 and 94 feet below ground surface		\ \		
96	48	98	WOR 1.0-8-13	2.0/1.0	8	0-1.0 soft, saturated, dark yellowish brown (10YR 4/2) fine to medium sand trace course sand	F-M Sand	\ \	0.0	1420
98	49	100	9-9-11-16	2.0/1.8	20	0-1.8 Same as above, trace silt		\ \	-	1450
						Hard at 100' drilled to 101' to make sure it stays hard		\ \		
101	51	103	9-11-10-12	2.0/1.5	21	0-1.5 Same as above, trace medium Subrounded gravel		\ \	0.0	1520
103	52	105	6-15-16-13*	2.0/1.2	31	0-1.2 dense, saturated, dark yellowish brown (10YR 4/2) fine medium and course sand, trace small and medium gravel and silt	F-M-L Sand Trace gravel +silt	\ \	0.0	1615
105	53	107	15-18-19-21*	2.0/1.8	37	0-1.2 Same as above 1.2-1.8 medium dense, wet, dark yellowish brown (10YR 4/2) with flecks of greenish brown (5GY 6/1) and dark reddish brown (10R 3/4) silt and fine and medium sand matrix supporting little course sand, few small subrounded gravel, trace silt	Silt, sand and gravel matrix supported	\ \	0.0	7/26/11 824
107	54	109	19-50/0.4	0.9/0.9	>69	0-0.9 Same as above (1.2-1.8) slight increase in medium to course sand in matrix		\ \	0.0	835
109	55	111	24-28-28-29	2.0/1.4	57	0-1.4 Very dense, saturated, brownish gray (5YR 4/1) to dusky yellowish brown (10YR 2/2) medium to course sand, little fine sand, few s,all subrounded gravel trace silt	M-C Sand and gravel	\ \	0.0	940
111	56	113	16-24-23-24	2.0/1.3	47	0-1.3 Same as above, medium dark gray(N4) dense		\ \	0.0	955
113	57	115	25-28-24-26	2.0/1.5	52	0-1.5 Same as above		\ \	0.0	1043
115	58	117	27-50/0.2	0.7/0.7	>77	0-0.7 Same as above		\ \	0.0	1059
117	59	119	60/0.4	0.4/0.4	>60	0-0.4 Same as above		\ \	0.0	1255
119	60	121	43-50/0.3	0.8/0.7	>93	0-0.7 Very dense, dense pale reddish brown (10R 5/4) silt and trace clay matrix supporting little small to medium angular gravel and trace medium to course sand	Till	\ \	0.0	1455
121	61	123	37-50/0.3	0.8/0.8	>87	0-0.8 Same as above		\ \	0.0	1600
123	62	125	100/0.4	0.4/0.4	>100	0-0.4 same as above, large chunk of greenish gray (5G 6/1) weathered shale 0.2-0.2' till again 0.3-0.4		\ \	0.0	1640
125	63	127	100/0.4*	0.4/0.4	>100	0-0.4 Same as above, no weathered shale, extremly dense till		\ \	0.0	7/27/11 940
						Drilling down to 125' bgs with 5 7/8" roller bit 5" permanent steel casing set at 123.75' bgs, grouted in place		\ \		
						Drilled out casing to 125' bgs starting core at 125' bgs using HQ core barrel		\ \		

*Indicates the use of a 300 lb hammer

Fluid loss ~100 gallons 94-103 ft

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-93BR
Client: Honeywell	Sampler: 2" Split Spoon	Location: Wastebed 13
Proj. Loc: Settling Basins 9-15 Camillus, NY	Hammer: 140-lb drop	Start Date: 7/11/2011
File No.: 1163/46698	Fall: 30"	End Date: 8/2/2011
Boring Company: Parratt-Wolff Foreman: Jolanne, Layne Pech, Ian Griesse OBG Geologist: R. Trent, J. Bone		Screen = \ Grout Riser Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
125	64	129.4	-	4.4/4.0	-	0-4.0 very dense, moist, olive gray (5Y 4/1) silt, trace clay and fine sand matrix supporting little medium to course sand and some small medium and large pieces of gravel		\ \	0.0	7/28/11 1235
129.4	65	133.4	-	4.0/1.2	-	0-2.8 sluff material, sand and silt 2.8-4.0 Same as above (125-129.4) slight increase in medium to course sand in matrix	135.3'	\ \	0.0	1405
133.4	66	138.4	-	5.0/3.4	-	0-0.3 Same as above 0.3-3.4 bedrock, med dark gray (N4) highly fractured shale transitioning to dark greenish gray (5G 4/1) shale heavily fractured	Bedrock (Shale)	\ \	0.0	1600
						Drilling to 139.3' with 4 7/8 rollerbit. 4" steel casing will be set 0-139.3' bgs. Core run will be from 142-152' bgs, see core log for details				7/29/11
142	67	144	-	10/8.75	-	0-8.75 Dark gray and dark greenish gray shale, highly fractured and weathered		= = = = =		8/1/11
144		146								
146		148								
148		150								
150		152								
						End of Boring 152'				
						Well Construction (bgs) Screen: 142-152 ft (10 Slot) Riser: +2.5-142 ft #0 Sand:140-152 ft #00 Sand:137-140 ft Grount: 0-137 ft				

~150-200 gallons of fluid lost while drilling 117-125 ft, for a total of ~600 gallons fluid loss. Mud breakdown from 109-125 ft, most likely due to saline water

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-93D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/13/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/13/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Jolanne		**Riser Sand Pack**
OBG Geologist: Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	20-26-25-24	2.0/1.75	51	Pale brown(5yr 5/2) silt, medium to course gravel, loose, dry little clay	Gravel, little clay	\		\	0.0	1418
2	2	4	24-50/0.4	0.9/0.9	50+	SAA Moderate yellow brown (wyr 5/4)		\		\	0.0	1425
4	3	6	11-16-9-8	2.0/0.5	25	SAA		\		\	0.0	1431
6	4	8	4-8-6-5	2.0/1.25	14	SAA, Damp		\		\	0.0	1442
8	5	10	4-3-3-3	2.0/1.25	6	SAA		\		\	0.0	1450
10	6	12	5-5-4-3	2.0/0.6	9	SAA		\		\	0.0	1455
12	7	14	10-5-18-20	2.0/1.0	33	SAA, Dry		\		\	0.0	1520
14	8	16	8-10-13-16	2.0/1.2	23	SAA		\		\	0.0	1525
16	9	18	8-15-20-22	2.0/1.5	35	SAA, Damp		\		\	0.0	1545
18	10	20	7-8-14-18	2.0/1.5	22	SAA, Increased silt and clay content, Dry		\		\	0.0	1600
20	11	22	13-14-17-16	2.0/1.5	31	SAA, wet from drilling fluids		\		\	0.0	7/12/11 800
22	12	24	8-30-16-18	2.0/2.0	46	SAA, At 23.5' change to Same as above with light olive gray 5Y 5/2 and moderate reddish brown 10R 4/6 matrix of clay course sand and fine gravel increased		\		\	0.0	810
24	13	26	15-22-30-25	2.0/1.5	52	SAA		\		\	0.0	830
26	14	28	19-24-38-25	2.0/1.2	62	SAA		\		\	0.0	840
28	15	30	12-11-9-16	2.0/.5	20	Moderate yellowish brown (5YR 5/4) course gravel and silt/clay matrix. Wet (from drilling mud?), dense		\		\	0.0	900
30	16	32	15-16-50/0.3	1.3/1.3	>66	SAA		\		\	0.0	905
32	17	34	11-40-22-16	2.0/1.5	69	SAA		\		\	0.0	930
34	18	36	17-22-23-33	2.0/1.5	45	SAA		\		\	0.0	940
36	19	38	25-37-17-	2.0/1.5	54	SAA		\		\	0.0	950
38	20	40	21-15-25-11	2.0/1.5	40	SAA		\		\	0.0	1005
40	21	42	9-10-13-11	2.0/1.5	23	SAA		\		\	0.0	1015
42	22	44	10-16-11-21	2.0/1.5	27	SAA		\		\	0.0	1040
44	23	46	8-19-15-15	2.0/1.75	34	SAA		\		\	0.0	1150
46	24	48	10-10-15-32	2.0/1.5	25	SAA		\		\	0.0	1230

Note: No Samples were collected from 0-52'. Sample descriptions are from MW-93BR

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-93D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/13/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/13/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Jolanne		**Riser Sand Pack**
OBG Geologist: Robert Trent		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
48	25	50	50/0	0.0/0.0	>50	No Recovery			0.0	1330
50	26	52	46-30-23-8	2.0/1.0	53	Same as above last .4' No course gravel			0.0	1345
52	27	54	18-50-9	.9/.9	50+	Moderate yellowish brown (5YR 5/4) course gravel and silt, some medium and fine gravel, wet very dense		=	0.0	7/13/11 1430
54	28	56	10-21-26-12	2.0/1.5	47	SAA		=	0.0	1545
56	29	58	9-20-50-.3	15/1.0	>70	SAA		=	0.0	1600
58	30	60				SAA		=		
60	31	62				SAA, last 1" pale reddish brown (10R 5/4) silt and medium and fine gravel matrix supported some fine sand little clay and very dense		=		
						End of Boring 62 ft				
						Well Construction				
						Screen: 52-62 ft				
						Riser: +2.5-52 ft				
						#0 Sand: 50-62 ft				
						#00 Sand: 48-50 ft				

Note: No Samples were collected from 0-52'. Sample descriptions are from MW-93BR

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-93I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/20/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/20/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	20-26-25-24	2.0/1.75	51	Pale brown(5yr 5/2) silt, medium to course gravel, loose, dry little clay	Gravel, little clay	\		\	0.0	1418
2	2	4	24-50/0.4	0.9/0.9	50+	SAA Moderate yellow brown (wyr 5/4)		\		\	0.0	1425
4	3	6	11-16-9-8	2.0/0.5	25	SAA		\		\	0.0	1431
6	4	8	4-8-6-5	2.0/1.25	14	SAA, Damp		\		\	0.0	1442
8	5	10	4-3-3-3	2.0/1.25	6	SAA		\		\	0.0	1450
10	6	12	5-5-4-3	2.0/0.6	9	SAA		\		\	0.0	1455
12	7	14	10-5-18-20	2.0/1.0	33	SAA, Dry		\		\	0.0	1520
14	8	16	8-10-13-16	2.0/1.2	23	SAA		\		\	0.0	1525
16	9	18	8-15-20-22	2.0/1.5	35	SAA, Damp		\		\	0.0	1545
18	10	20	7-8-14-18	2.0/1.5	22	SAA, Increased silt and clay content, Dry		\		\	0.0	1600
20	11	22	13-14-17-16	2.0/1.5	31	SAA, wet from drilling fluids		\		\	0.0	7/12/11 800
22	12	24	8-30-16-18	2.0/2.0	46	SAA, At 23.5' change to Same as above with light olive gray 5Y 5/2 and moderate reddish brown 10R 4/6 matrix of clay course sand and fine gravel increased		\		\	0.0	810
24	13	26	15-22-30-25	2.0/1.5	52	SAA		\		\	0.0	830
26	14	28	19-24-38-25	2.0/1.2	62	SAA		\		\	0.0	840
28	15	30	12-11-9-16	2.0/.5	20	Moderate yellowish brown (5YR 5/4) course gravel and silt/clay matrix. Wet (from drilling mud?), dense		\		\	0.0	900
30	16	32	15-16-50/0.3	1.3/1.3	>66	SAA		\		\	0.0	905
32	17	34	11-40-22-16	2.0/1.5	69	SAA		\		\	0.0	930
34	18	36	17-22-23-33	2.0/1.5	45	SAA					0.0	940
36	19	38	25-37-17-	2.0/1.5	54	SAA					0.0	950
38	20	40	25-45-40-46	2.0/1.5	85	0-1.5 Very Dense, saturated, dark yellowish brown (10YR 4/2) SILT and f-m SAND matrix supporting coarse sand and s-m angular gravel. Little coarse sand size flecks of greenish gray (5GY 6/1) and dusky red (5R 3/4) grains within matrix			=		0.0	7/20/11 1420
40	21	42	12-22-32-31	2.0/1.5	54	0-1.5 SAA			=		0.0	1442
42	22	44	19-27-18-23	2.0/1.8	45	0-1.8 SAA, dense			=		0.0	1455
44	23	46	42-29-12-13	2.0/1.0	41	0-1.0 SAA			=		0.0	1530
46	24	48	14-17-14-16	2.0/1.0	31	0-1.0 SAA			=		0.0	1535

Note: No Samples were collected from 0-38'. Sample descriptions are from MW-93BR

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-93I
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/20/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/20/2011**
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Layne Pech		**Riser** **Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
48	25	50	26-12-18-17	2.0/1.2	30	0-1.2 SAA		=	0.0	1543
						End of Boring 50 ft				
						Well Construction (bgs)				
						Screen: 39-49 ft (10 slot)				
						Riser: +2.5-39 ft				
						#0 Sand: 37-49 ft				
						#00 Sand: 35-37 ft				
						Grout: 0-35 ft				

Note: No Samples were collected from 0-38'. Sample descriptions are from MW-93BR

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-93S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/14/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/14/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Jolanne		**Riser Sand Pack**
OBG Geologist: Nate Kranes		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	PID (ppm)	Field Testing Time
0	1	2	20-26-25-24	2.0/1.75	51	Pale brown(5yr 5/2) silt, medium to course gravel, loose, dry little clay	Gravel, little clay	\ \	0.0	1418
2	2	4	24-50/0.4	0.9/0.9	50+	SAA Moderate yellow brown (wyr 5/4)		\ \	0.0	1425
4	3	6	11-16-9-8	2.0/0.5	25	SAA		\ \	0.0	1431
6	4	8	4-8-6-5	2.0/1.25	14	SAA, Damp		\ \	0.0	1442
8	5	10	4-3-3-3	2.0/1.25	6	SAA		\ \	0.0	1450
10	6	12	5-5-4-3	2.0/0.6	9	SAA		\ \	0.0	1455
12	7	14	10-5-18-20	2.0/1.0	33	SAA, Dry		\ \	0.0	1520
14	8	16	8-10-13-16	2.0/1.2	23	SAA		\ \	0.0	1525
16	9	18	8-15-20-22	2.0/1.5	35	SAA, Damp		\ \	0.0	1545
18	10	20	7-8-14-18	2.0/1.5	22	SAA, Increased silt and clay content, Dry		\ \	0.0	1600
20	11	22	18-47-21-21	2.0/2.1	68	Pale brown silt and mf gravel, little c-f sand very dense, moist	Sand and Gravel	\ \	0.0	7/14/11 1352
22	12	24	23-38-50/0.3	1.3/1.0	>85	SAA, saturated at 23' bgs			0.0	1401
24	13	26	13-14-44-24	2.0/1.5	58	SAA - 24.8', 24.8-26.0 SAA- color change to light olive gray (5Y 5/2) and moderate reddish brown (10R 4/6) with clay matrix, saturated, very dense		=	0.0	1440
26	14	28	24-14-12-10	2.0/2.0	36	SAA, saturated , dense		=	0.0	1447
28	15	30	10-20-30-32	2.0/1.0	50	SAA saturated, very dense		=	0.0	1515
30	16	32	9-9-4-2	2.0/1.2		0.8 SAA 0.4 course to fine sand and medium to fine gravel, trace silt		=	0.0	1530
32	17	34	2-2-4-8	2.0/1.5		SAA silt and medium to fine gravel with clay matrix, saturated, loose		=	0.0	1536
						End of boring 34' bgs				
						Well Construction (bgs)				
						Screen: 22-32 ft				
						Riser: +2.5-22 ft				
						#0 Sand: 20-32 ft				
						#00 Sand: 18-20 ft				
						Grout: 0-18 ft				

Note: No Samples were collected from 0-20'. Sample descriptions are from MW-93BR

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-94S
Client: Honeywell **Proj. Loc: Settling Basins 9-15 Camillus, NY** **File No.: 1163/46698**	**Sampler: 2" Split Spoon** **Hammer: 140-lb drop** **Fall: 30"**	**Location: Wastebed 13** **Start Date: 7/5/2011** **End Date: 7/6/2011**
Boring Company: Parratt-Wolff **Foreman: Layne Pech** **OBG Geologist: J. Newton, J. Bone**		**Screen =** **Riser** **Grout** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	6-13-14-14	2.0/0.5	27	0-0.5 top soil, grayish brown (5YR 8/4) medium dense	Fill	\ \	0.1	7/5/11 1245
2	2	4	8-8-9-7	2.0/2.5	17	0-0.25 dry medium dense pale brown (5YR 5/2) Fine to very course subangular to angular SAND and silt, trace fm gravel moist in sample		\ \	0.0	1252
4	3	6	2-2-5-5	2.0/1.0	7	0-1.0 firm, wet (moist in sample), moderate brown (5YR 4/4) CLAY, common, medium, distinct grayish black (N2) molting	Silt and Clay, some sand	\ \	0.0	1308
6	4	8	5-5-3-3	2.0/2.0	8	0-1.0 firm, moist dark yellowish brown (5YR 4/4) CLAY some mc sand (angular), little fm gravel, some plant material. 1.0-1.5 firm, moist, moderate brown (5YR 4/4) clay with common, medium, distinct grayish black (N2) mottling. 1.5-2.0 firm, moist dark yellowish brown (10YR 4/2) fine to very fine sand with some silt		\ \	0.0	1320
8	5	10	4-4-6-11	2.0/1.5	10	0-1.0 stiff, moist, moderate brown (5YR 4/4) CLAY with common medium distict, grayish black (N2) molttling. 1.0-1.5 stiff, moist, moderate yellowish brown (10YR 5/4) silt and very fine sand		\ \	0.0	1328
10	6	12	3-5-6-7	2.0/1.0	11	0-0.25 stiff, moist, moderate brown (5YR 4/4) CLAY with trace plant material. 0.25-1.0 stiff, moist dark yellowish brown (10YR 2/2) SILT with trace clay		\ \	0.0	1340
12	7	14	8-8-8-8	2.0/1.0	11	0.0-0.5 hard, moist, moderate brown(5YR 4/4) CLAY with trace plant material with trace course sand. 0.5-1.5 stiff, moist dark yellowish brown (10YR 2/2) SILT with trace clay		\ \	0.0	1346
14	8	16	2-2-2-3	2.0/1.5	4	0-0.5 soft, wet, moderate brown (5YR 4/4) CLAY, with few medium, faint, black (N2) molttling. 0.5-1.5 soft, wet to saturated, dark yellowish brown (10YR 2/2) SILT with trace clay and trace fine to very fine sand		\ \	0.0	1400
16	9	18	5-5-5-7	2.0/1.5	10	0-1.5 SAA			0.0	1410
18	10	20	3-4-5-6	2.0/1.5	9	0-0.25 Stiff, saturated, moderate brown (5YR 4/4) CLAY with few medium, faint to distinct black (N2) mottling. 0.25-1.25 stiff saturated, dark yellowish brown (10YR 2/2) very fine to fine SAND and silt			0.0	1418
20	11	22	4-7-7-5	1.5/1.0	7	0-1.0 SAA, grain size increasing with depth, small 1" clay layer at top hit rock at about 21.5 ' bgs		=	0.0	1426
22	12	24	30-84	1.0/1.0	114	0-1.0 extremely dense, saturated medium gray (N5) fmc GRAVEL	Sand and Gravel Some Silt	=	0.0	1446

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-94S
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** Wastebed 13
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 7/5/2011
File No.: 1163/46698	**Fall:** 30"	**End Date:** 7/6/2011
Boring Company: Parratt-Wolff **Foreman:** Layne Pech **OBG Geologist:** J. Newton, J. Bone		**Screen** = \ Grout **Riser** Sand Pack Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
24	13	26	10-21-26-28	2.0/1.0	47	0-1.0 dense, saturated, brownish gray (5YR 4/1) fmc angular SAND and little silt		=	0.0	1510
26	14	28	20-6-9-11	2.0/0.5	15	0-0.5 medium dense, standard, brownish gray(5YR 4/1) SILT and fine sand matrix supporting some fmc gravel		=	0.0	1517
28	15	30	30-14-9-7	2.0/1.0	23	0-1.0 SAA		=	1.5	7/6/11 915
						End of boring 30' bgs				
						Well Construction (bgs)				
						Screen: 20-30 ft (10 slot)				
						Riser: +2.5-20 ft				
						#0 Sand: 18-30 ft				
						#00 Sand: 16-18 ft				
						Grout: 0-16 ft				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-95S
Client: Honeywell **Proj. Loc: Settling Basins 9-15 Camillus, NY** **File No.: 1163/46698**	**Sampler: 2" Split Spoon** **Hammer: 140-lb drop** **Fall: 30"**	**Location: Wastebed 13** **Start Date: 7/7/2011** **End Date: 7/7/2011**
Boring Company: Parratt-Wolff **Foreman: Layne Pech** **OBG Geologist: J.Bone**		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	8-30-40-45	2.0/1.4	70	0.0.8 Very dense, dry, light gray (N8) fmc SAND and silt, some sm angular gravel. 0.8-1.4 very dense, dry, dusky brown (5YR 2/2) SILT little fm sand few small angular gravel	Fill	\ \	0.7	7/7/11 944
2	2	4	62-73-50/0.1	2.0/1.1	>123	0-1.1 Very dense, dry, brownish bray (5YR 4/1) SILT matrix, supproting Medium to course sand, some Small to medium Angular gravel	Silt, sand and gravel	\ \	0.0	948
4	3	6	17-7-13-19	2.0/0.0	20	No Recovery		\ \	-	958
6	4	8	10-8-5-4	2.0/2.0	13	0-1.5 Medium, dry, moderate brown (5YR 3/4) fine SAND, v. trace course sand band 0.8-1.0. 1.5-2.0 Stiff, slightly moist, moderate brown (5YR 3/4) SILT and CLAY slightly cohesive.	Fine sand	\ \	0.0	1002
8	5	10	12-35-15-18	2.0/1.0	50	0-0.6 Same as above (1.5-2.0). 0.6-0.8 Very dense, dry , Medium light gray (N6) sm angular gravel pieces, some fine, medium and course sand. 0.8-1.0 Very dense, dry brownish gray (5YR 4/1) SILT matrix supporting fm sand sized greenish gray (5GY 6/1) and dark reddish brown (10R3/4) peices	Dense Sand and Gravel	\ \	0.0	1016
10	6	12	8-9-9-8	2.0/1.0	18	0-1.0 Medium dense, dry brownish gray mc SAND, some sm subangular gravel, trace silt trace light brown oxidation on medium gravel	Sand and gravel some silt	\ \	0.0	1030
12	7	14	12-11-10-8	2.0/1.3	21	0-1.3 SAA, less medium gravel, increase in fine sand and silt		\ \	0.0	1035
14	8	16	13-10-8-7	2.0/1.0	18	0-1.0 Medium dense, dry, brownish gray (5YR 4/1) mc SAND some silt, few large angular gravel pieces , little sm subangular gravel	Sand and gravel some silt	\ \	0.0	1105
16	9	18	9-8-15-11	2.0/1.0	23	0-1.0 Medium dense, dry, olive gray (5Y 4/1), mc SAND some fine sand, few ml sub angular gravel	Sand and gravel some silt	\ \	0.0	1108
18	10	20	16-7-7-8	2.0/0.1	14	0-0.1 SAA		\ \	0.0	1128
20	11	22	8-5-5-5	2.0/1.1	10	0-0.6 SAA. 0.6-1.1 Loose, slightly moist, brownish gray (5YR 4/1) fmc SAND some small to medium subangular gravel, trace silt		\ \	0.0	1142

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-95S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/7/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/7/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: J.Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
22	12	24	4-4-4-6	2.0/1.0	8	0-1.0 Loose, moist, brownish gray (5YR 4/1) mc SAND and sml subangular gravel	Sand and Gravel		0.0	1145
24	13	26	10-5-5-8	2.0/0.5	10	0-0.5 SAA, less moist			0.0	1208
26	14	28	5-4-4-4	2.0/1.0	8	0-0.7 Loose, dry, brownish gray (5YR 4/1) mc SAND, some sm gravel, few large angular gravel, trace silt. 0.7-1.0 Loose, wet, brownish gray (5YR 4/1), mc SAND some sm angular gravel, trace silt		=	0.0	1210
28	15	30	2-2-5-13	2.0/0.6	7	0-0.6 Loose, saturated, brownish gray (5YR 4/1) mc subrounded SAND some sml subrounded gravel, trace silt		=	0.0	1307
30	16	32	3-2-13-6	2.0/1.0	15	0-1.0 Medium dense, saturated, brownish gray(5YR 4/1)mc subrounded SAND some sml subrounded gravel, trace silt		=	0.0	1318
32	17	34	7-6-7-6	2.0/1.0	13	0-1.0 SAA		=	0.0	1322
34	18	36	8-6-8-12	2.0/1.0	14	0-1.0 SAA		=	0.0	1335
						End of boring 36' bgs				
						Well Construction (bgs)				
						Screen: 26-36 ft (10 slot)				
						Riser: +2.5-26 ft				
						#0 Sand: 24-36 ft				
						#00 Sand: 22-24 ft				
						Grout: 0-22 ft				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-96S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/8/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/8/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: J. Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	12-12-7-8	2.0/1.2	19	0-0.7 Very stiff, dry, moderate brown (5YR 3/4) SILT, few course sand, trace small gravel. 0.7-1.2 Loose, dry, medium gray (N5) s-m-l gravel, some mc sand, trace silt	Fill	\ \	0.6	857
2	2	4	16-12-12-21	2.0/2.0	24	0-0.5 SAA (0.7-1.2) 0.5-2.0 Very stiff dry, grayish brown (5YR 3/2) SILT matrix supporting trace m-c sand	Silt	\ \	0.0	900
4	3	6	15-5-12-9	2.0-1.2	17	0-0.7 SAA, few large angular, gravel pieces and course sand. 0.7-1.2 Stiff, dry, grayish brown (5YR 3/2) to dusky red (5R 3/4) silt matrix supporting m-c sand with very dark red (5R 2/6) large angular rock pieces	Silt, sand and gravel	\ \	0.0	911
6	4	8	9-9-7-7	2.0/1.2	16	0-1.2 Medium dense, dry, dark yellowish brown (10YR 4/2) SILT and f-m-c sand, some s-m-l angular gravel.		\ \	0.0	915
8	5	10	6-4-8-7	2.0/1.0	12	0-1.0 loose, dry, dark yellowish brown (10YR 4/2) f-m-c SAND, some silt, few s-m gravel trace large angular gravel		\ \	0.0	930
10	6	12	5-7-8-7	2.0/1.0	15	0-1.0 SAA, moist in zone with higher large gravel content (0.4-0.6)		\ \	0.0	937
12	7	14	9-9-7-7	2.0/1.8	16	0-1.8 Medium dense, dry to slightly moist, dark, yellowish brown (10YR 4/2) f-m-c SAND some silt, few s-m-l subangular gravel		\ \	0.0	940
14	8	16	33-28-13-12	2.0/0.5	41	0-0.5 Dense, moist, med gray (N5) m-c SAND, some large angular gravel, few s-m gravel, trace silt		\ \	0.0	957
16	9	18	7-6-6-6	2.0/2.0	12	0-2.0 Loose dry, dark yellowish brown (10YR 4/2) f-m-c SAND some s-m subangular gravel, silt, trace, large angular gravel		\ \	0.0	1001
18	10	20	6-6-6-6	2.0/1.1	12	0-1.1 SAA		\ \	0.0	1012
20	11	22	5-6-6-6	2.0/1.0	12	0-1.0 loose, dry, dark yellowish brown (10YR 4/2) f-m-c SAND, trace s-m gravel		\ \	0.0	1043
22	12	24	8-7-13-10	2.0/1.0	12	0-1.0 SAA, slight increase in gravel content			0.0	1048
24	13	26	7-7-6-4	2.0/1.5	13	0-1.5 SAA			0.0	1110
26	14	28	10-7-10-8	2.0/1.0	17	0-1.0 SAA		=	0.0	1113
28	15	30	1-3-3-3	2.0/1.0	6	0-1.0 SAA, saturated		=	0.0	1130
30	16	32	2-5-7-6	2.0/1.5	12	0-1.5 Medium dense, saturated, dark yellowish brown (10YR 4/2) m-c SAND, little s-m gravel, trace silt		=	0.0	1140
32	17	34	6-7-7-5	2.0/1.5	14	0-1.0 SAA, slight increase in small gravel content and silt		=	0.0	1145
34	18	36	6-8-11-12	2.0/1.5	19	0-1.5 SAA		=	0.0	1155

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-96S
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** Wastebed 13
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 7/8/2011
File No.: 1163/46698	**Fall:** 30"	**End Date:** 7/8/2011
Boring Company: Parratt-Wolff **Foreman:** Layne Pech **OBG Geologist:** J. Bone		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
36	19	38	13-16-16-16	2.0/0.4	32	0-0.4 Dense, saturated, dark yellowish brown (10YR 4/2) SILT and f-m SAND matrix supporting some course sand and small subrounded gravel		=	0.0	1200
						End of Boring at 38 ft bgs				
						Well Construction (bgs)				
						Screen: 26-36 ft (10 Slot)				
						Riser: +2.5-26 ft				
						#0 Sand: 24-36 ft				
						#00 Sand: 22-24 ft				
						Grout: 0-22 ft				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-97S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/8/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/11/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: J. Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	PID (ppm)	Field Testing Time
0	1	2	16-36-22-33	2.0/1.5	58	0-1.5 Very dense, dry, brownish gray (5YR 4/1) s-m-large angular GRAVEL, little silt and m-c sand.	Fill	\ \	1.1	7/8/11 1515
2	2	4	13-15-7-12	2.0/1.2	22	0-1.2 Very stiff, dry, dark yellowish brown (10YR 4/2) SILT, some s-m gravel first 0.0-0.2'	Silt	\ \	0.0	1517
4	3	6	6-5-3-4	2.0/0.7	8	0-0.7 SAA, no gravel		\ \	0.0	1532
6	4	8	5-5-5-5	2.0/1.2	10	0-1.2 SAA, slightly moist		\ \	0.0	1535
8	5	10	1-2-4-3	2.0/1.0	6	0-1.2 SAA, moderate brown, medium, trace clay	Silt, trace clay	\ \	0.0	1550
10	6	12	1-3-4-5	2.0/1.6	7	0-1.6 SAA		\ \	0.0	1559
12	7	14	8-11-58/(0.5)	1.5/1.3	>69	0-0.2 SAA. 0.2-1.3 Very dense, dry dark yellowish brown (10YR 4/1) SILT and m-c SAND matrix supporting some s-m gravel, trace large angular gravel	Silt, sand and gravel	\ \	0.0	1603
14	8	16	6-12-9-7	2.0/1.2	21	0-1.2 Medium dense, dry, grayish brown brown(5YR 3/2) f-m-c SAND, little silt and s-m gravel, trace large gravel		\ \	0.0	1620
16	9	18	13-16-7-8	2.0/1.4	23	0-1.4 SAA		\ \	0.0	1625
18	10	20	2-9-8-8	2.0/1.0		0-1.0 Dense, dry, Dark yellowish brown (10 YR 4/1) f-m-c SAND and SILT, trace s-m gravel		\ \	0.0	7/11/11 915
20	11	22	8-8-4-6	2.0/1.2	12	0-1.2 SAA, slightly less silt, slightly moist		\ \	0.0	922
22	12	24	5-8-9-8	2.0/1.5	17	0-1.5 Medium dense, dry, dark yellowish brown (10YR 2/3) m-c SAND, little silt, few s-m gravel, trace large angular gravel		=	0.0	927
24	13	26	9-10-16-12	2.0/1.0	26	0-1.0 SAA, dense, Silt matrix suported 0.2-0.4'		=	0.0	944
26	14	28	11-9-10-9	2.0/<0.1	19	Very low recovery, SAA, saturated split spoon sampler appears wet 0-1.0 gorund water at ~27' below ground surface.		=	-	950
28	15	30	4-3-9-9	2.0/1.0	12	0-0.4 Soft, saturated, dark yellowish brown (10YR 4/2) SILT matrix supporing little m-c sand. 0.4-1.0 Loose, saturated medium gray (N5) m-c SAND little s-m subrounded gravel, trace silt	Sand and gravel	=	0.0	958
30	16	32	4-4-6-6	2.0/1.5	10	0-1.5 SAA (0.4-1.0) little silt		=	0.0	1005
32	17	34	5-5-5-5	2.0/1.5	10	0-1.5 SAA no silt		=	0.0	1008
34	18	36	3-2-3-6	2.0/1.5	5	0-1.5 SAA		=	0.0	1015
						End of boring 35' bgs				
						Well Construction (bgs)				
						Screen: 25-35 ft (20 slot)				
						Riser: +2.5-25 ft				
						#0 Sand: 23-35 ft				
						#00 Sand: 21-23 ft				
						Grout: 0-21 ft				

O'BRIEN & GERE ENGINEERS, INC.

SOIL BORING LOG

REPORT OF BORING
SB915-MW-98S

Client: Honeywell
Proj. Loc: Settling Basins 9-15 Camillus, NY
File No.: 1163/46698

Sampler: 2" Split Spoon
Hammer: 140-lb drop
Fall: 30"

Location: Wastebed 13
Start Date: 7/11/2011
End Date: 7/11/2011

Boring Company: Parratt-Wolff
Foreman: Layne Pech
OBG Geologist: J. Bone

Screen = \ Grout
Riser Sand Pack
Sand Choke

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	7-30-46-40	2.0/1.5	76	0-1.5 Very dense, dry, medium light gray (N6) SILT matrix supporting large angular gravel, some course sand	Fill	\ \	0.0	1348
2	2	4	30-16-16-14	2.0/1.5	32	0-0.5 SAA. 0.5-1.5 stiff, dry, moderate yellowish brown (10YR 5/4) silt	Silt	\ \	0.0	1352
4	3	6	3-5-4-5	2.0/1.3	9	0.1.3 SAA (0.5-1.5) moist		\ \	0.0	1410
6	4	8	6-5-6-6	2.0/2.0	11	0-2.0 SAA		\ \	0.0	1412
8	5	10	2-2-2-2	2.0/1.5	4	0-1.5 SAA		\ \	0.0	1420
10	6	12	1-1-1-1	2.0/1.5	2	0-1.5 SAA, trace fine sand	Silt trace Sand	\ \	0.0	1430
12	7	14	4-3-3-4	2.0/1.5	6	0-1.5 SAA		\ \	0.0	1432
14	8	16	4-6-7-10	2.0/1.8	13	0-1.8 Stiff, moist, moderate yellowish brown (10YR 5/4) fine SAND some SILT	Fine Sand some Silt	\ \	0.0	1442
16	9	18	6-9-12-7	2.0/2.0	21	0-2.0 SAA, very stiff		\ \	0.0	1445
18	10	20	1-2-2-2	2.0/2.0	4	0-2.0 Very soft, wet, brownish gray (5YR 4/1) SILT and CLAY, moderatly cohesive	Silt and Clay	\ \	0.0	1508
20	11	22	1-1-10-20	2.0/1.2	11	0-1.0 SAA. 1.0-1.2 Dense, dry greenish gray (5GY 6/1) and moderate red (5R 4/6) SILT and fine SAND matrix supporting course sand and small gravel			0.0	1520
22	12	24	36-26-20-13	2.0/1.5	46	0-1.5 SAA. (1.0-1.2) S-m-l angular gravel, very dense	Matrix supported Sand and gravel		0.0	1525
24	13	26	9-21-18-17	2.0/1.5	39	0-0.5 Dense dry, pale brown (5YR 5/2) m-c SAND and angular GRAVEL. 0.5-1.5 Dense, saturated, grayish brown (5YR 3/2) m-c sand, some s-m-l subangular gravel, little silt	Sand and Gravel	=	0.0	1540
26	14	28	15-14-15-8	2.0/1.5	29	0.1.5 SAA (0.5-1.5)		=	0.0	1545
28	15	30	12-10-15-17	2.0/1.0	25	0-1.0 SAA		=	0.0	1554
30	16	32	19-21-17-12	2.0/1.0	38	0-1.0 SAA, intervals (0.1') of silt and f-m sand matrix supporting sand and gravel, very dark red (5GY 6/1) m-c sand sized pieces in matrix		=	0.0	1604
32	17	34	15/11/12/14	2.0/1.0	23	0-0.5 SAA, less matrix supported. 0.5-1.0 Dense, saturated, moderate brown (5YR 3/4) f-m SAND	Fine to medium Sand	=	0.0	1610

End of boring 34' bgs

Well Construction (bgs)
Screen: 24-34 ft (10 slot)
Riser: +2.5-24 ft
#0 Sand: 22-34 ft
#00 Sand: 20-22 ft
Grout: 0-20 ft

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-MW-99S
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: Wastebed 13**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 7/12/2011**
File No.: 1163/46698	**Fall: 30"**	**End Date: 7/12/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Layne Pech		**Riser Sand Pack**
OBG Geologist: J. Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	22-15-13-12	2.0/1.5	28	0-1.0 Very stiff, dry, brownish gray (5YR 4/1) SILT matrix supporting small gravel, few large angular gravel. 1.0-1.5 stiff dry, dark yellowish brown (10YR 5/4) SILT trace m-c sand	Fill	\ \	0.0	854
2	2	4	14-15-11-10	2.0/1.5	26	01.5 SAA (1.0-1.5)	Silt	\ \	0.0	857
4	3	6	15-6-6-8	2.0/0.3	12	0-0.3 Stiff, dry brownish gray (5YR 4/1) SILT few s-m gravel		\ \	0.9	908
6	4	8	9-8-7-7	2.0/0.3	15	0-0.3 SAA, Large cobble stuck in sampler nose	Silt and Gravel	\ \	0.4	910
8	5	10	7-3-3-4	2.0/1.5	6	0-0.5 SAA. 0.5-1.5 medium, moist, moderate yellowish brown (10YR 5/4) SILT	Silt	\ \	0.9	920
10	6	12	3-3-2-2	2.0/1.3	5	0-1.3 SAA (0.5-1.5) little very fine sand		\ \	0.0	927
12	7	14	2-2-4-4	2.0/1.6	6	0-1.6 SAA, slight increase in very fine sand content		\ \	0.0	930
14	8	16	2-1-2-2	2.0/1.5	3	0-1.5 SAA, wet		\ \	0.0	938
16	9	18	3-1-2-2	2.0/1.5	3	0-1.5 SAA		\ \	0.0	940
18	10	20	3-8-12-8	2.0/0.8	20	0-0.4 SAA 0.4-0.8 medium, moist dark yellowish brown (10YR 4/2) SILT some s-m angular gravel and m-c sand, trace large angular gravel, large cobble stuck in end			0.0	950
20	11	22	7-4-4-3	2.0/1.3	8	0-1.3 loose, dry, dark yellowish brown (10YR 4/2) m-c SAND some s-m gravel, trace silt, medium sand sized grains greenish gray (5GY 6/1) and moderate reddish brown (10r 4/6)	Sand Gravel trace silt		0.0	1001
22	12	24	4-4-5-6	2.0/1.5	9	0-1.5 SAA		=	0.0	1005
24	13	26	4-3-3-3	2.0/1.0	6	0-1.0 loose, saturated, dark yellowish brown (10YR 4/2) and greenish gray (5GY 6/1) and dark reddish brown (10R 3/4) m-c sand, some s-m gravel, trace silt		=	0.0	1024
26	14	28	4-4-4-4	2.0/1.5	8	0-1.5 SAA		=	0.0	1027
28	15	30	3-5-5-3	2.0/1.3	10	0-1.3 SAA		=	0.0	1038
30	16	32	3-6-18-16	2.0/1.0	24	0-0.5 SAA 0.5-1.0 very stiff, moist, moderate brown (5YR 4/4) SILT matrix supporting s-m subrounded gravel, little m-c sand, trace large gravel	Silt Matrix Supported Sand and gravel	=	0.0	1049
32	17	34	8-44-41-52	2.0/1.0	85	0-1.0 SAA			0.0	1053
						End of Boring 32' bgs				
						Well Construction (bgs)				
						Screen: 22-32 ft				
						Riser: +2.5-22 ft				
						#0 Sand: 20-32 ft				
						#00 Sand: 18-20 ft				
						Grout: 0-18 ft				

ECHNICAL/GEOHYDROLOGICAL CONSULTANTS

Camillus, New York

FILE No. R5852
CHKD. BY ERH

RACTOR North Star Drilling
LLER J. Thew
REPRESENTATIVE R. Szustakowski

BORING LOCATION Not available (MWB-1D)
GROUND SURFACE ELEVATION Not available DATUM Not avail.
START DATE 7/25/89 END DATE 7/27/89

OF DRILL RIG CME-55
ING SIZE AND TYPE 4-1/4 inch I.D. HSA
BURDEN SAMPLING METHOD 1-3/8 inch I.D. Split Spoon
DRILLING METHOD Not Applicable

WATER LEVEL DATA

DATE	TIME	WATER	CASING	REMARKS

BLOWS / 6"	SAMPLE NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	pH	NOTES
3	S-1	0-2	7	70	TOPSOIL		6.85	1
3					Brown to black, Fine to coarse SAND, some Silt, moist (FILL)	Concrete seal (0-1 foot)		
4								
4					. . . little Gravel	4 inch I.D. steel locking protective casing		
7	S-2	2-4	20	80	Brown Clayey SILT and fine to coarse SAND, little Gravel, trace cinders		6.80	
12								
8					Black staining	Cement grout (1-5 feet)		
6								
4	S-3	4-6	12	100	Brown, Clayey SILT little fine to coarse Sand, trace Gravel, trace organics, moist		6.15	
5								
7								
12					Two inch layer of black coarse Sand	2 inch I.D. schedule 5 PVC riser (0-78.5 feet)		
17	S-4	6-8	49	70	Brown, Clayey SILT, some fine to coarse Sand, moist			2
22							6.59	
27						Cement/bentonite grout (5-27 feet)		
37								
15	S-5	8-10	18	80	Medium dense, brown, fine to coarse SAND and GRAVEL, little Silt, wet		6.50	
11								
7								
9								
5	S-6	10-12	13	50	. . . trace Clayey SILT		6.18	
5								
8								
8								
7	S-7	12-14	13	50	. . . little Silt		5.79	
7								
6								
5								
4	S-8	14-16	12	60	Orange staining		5.95	
6								
6								
6								
6	S-9	16-18	17	60	. . . trace Clayey Silt		5.71	3

LEGEND
Split Spoon Soil Sample
Undisturbed Soil Sample
Rock Core Sample

NOTES: 1. Topsoil from 0 to 0.3 feet consisting of brown-black Clayey SILT, some organics (roots).
2. Rock in spoon may have caused elevated blow counts.
3. Rust-colored water observed in soil in tip of spoon.

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING No. MW-1D

OLDBERG-ZOINO ASSOCIATES OF NEW YORK, P.C.
64 NAGEL DRIVE, BUFFALO, NEW YORK
EOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
PROPOSED C&D LANDFILL
CAMILLUS, NEW YORK

BORING No. MW-1D
SHEET 2 OF 6
FILE No. R5852
CHKD. BY ERH

(MWB-1D)

SAMPLE BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	pH	NOTES
9								
8								
6								
5	S-10	18-20	15	70	. . . little Clayey Silt		6.50	
7								
8								
9								
4	S-11T	20-21	14	80				
5							5.70	
9	S-11B	21-22						
10								
19	S-12	22-24	15	50	Medium dense, brown, fine to coarse SAND, some Clayey Silt, little fine Gravel, moist		6.10	
9								
6								
22								
12	S-13	24-25.1	--	90	. . . very dense		6.53	
40								
25/0.1								
35	S-14	26-26.8	--	100	. . . gray-brown, some fine Gravel, some Clayey Silt, moist		6.35	
50/0.3								
15	S-15	26-30	35	80	. . . dense, brown, little fine Gravel, moist		5.62	
20								
15							5.85	
18								
17	S-16	30-32	38	80				
18								
20								
20								
14	S-17	35-37	37	80			6.31	
17								
20								

2 inch I.D. schedule 5 PVC riser

Cement/bentonite grout (5-27 feet)

Bentonite pellet seal (27-31 feet)

Cement/bentonite grout (31-68.5 feet)

LEGEND
S - Split Spoon Soil Sample
U - Undisturbed Soil Sample
C - Rock Core Sample

NOTES:

NERAL OTES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

ZA

BORING No. MW-1D

NAGEL DRIVE, BUFFALO, NEW YORK

ECHNICAL/GEOHYDROLOGICAL CONSULTANTS

Proposed C&D Landfill
Camillus, New York

BORING NO. MW-1D
SHEET 3 OF 6
FILE No. 85852
CHKD. BY ERH

(MWB-1D)

BLOWS / 6"	SAMPLE NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	pH	NOTES
22								
							2 inch I.D. schedule 5 PVC riser	
7	S-18	40-42	14	90	. . . Medium dense, little Clayey Silt, wet		5.45	
9								
9								
11							Cement/bentonite grout (31-68.5 feet)	
50/ 0.3	S-19	45-45.3	--	100	. . . some Clayey Silt, moist		5.55	
9	S-20	50-52	21	90	. . . some Gravel, wet		5.85	
10								
11								
12								
10	S-21	55-57	29	75			5.75	
11								
18								

LEGEND
Split Spoon Soil Sample
Undisturbed Soil Sample
Rock Core Sample

NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

Camillus, New York

SHEET 4 OF 6
FILE No. R5852
CHKD. BY ERH

(MWB-1D)

DEPTH	SAMPLE BLOWS / 6"	SAMPLE NO.	SAMPLE DEPTH (FT.)	SAMPLE N-VALUE /RQD(%)	SAMPLE RECOVERY (%)	SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	pH	NOTES
57	20								
58								2 inch I.D. schedule 5 PVC riser	
59									
60									
	9	S-22	60-62	31	80	. . . Dense, little fine Gravel		5.50	
61	11								
	20								
	18							Cement/bentonite grout (31-68.5 feet)	
62									
63									
64									
65									
	15	S-23	65-67	29	80	. . . medium dense		5.50	4
66	15								
	14								
67	14								
68									
69									
70								Bentonite pellet seal (68.5-71 feet)	
	8	S-24	70-72	16	60	Medium dense, gray fine to coarse SAND and GRAVEL, little silt, wet.		4.75	
71	8								
	8								
72	10								
73									
74									
75								Indigenous Sand and Gravel	
76									
77									
	8	S-25	75-77	38	60	. . . dense		4.75	
78	12								
	26								

LEGEND
S - Split Spoon Soil Sample
U - Undisturbed Soil Sample
C - Rock Core Sample

NOTES: 4. Standing water at 11.2 feet from ground surface with augers to 65 feet at 0915 on 7/26/89.

GENERAL NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING No. MW-1D

NAGEL DRIVE, BUFFALO, NEW YORK
TECHNICAL/GEOHYDROLOGICAL CONSULTANTS

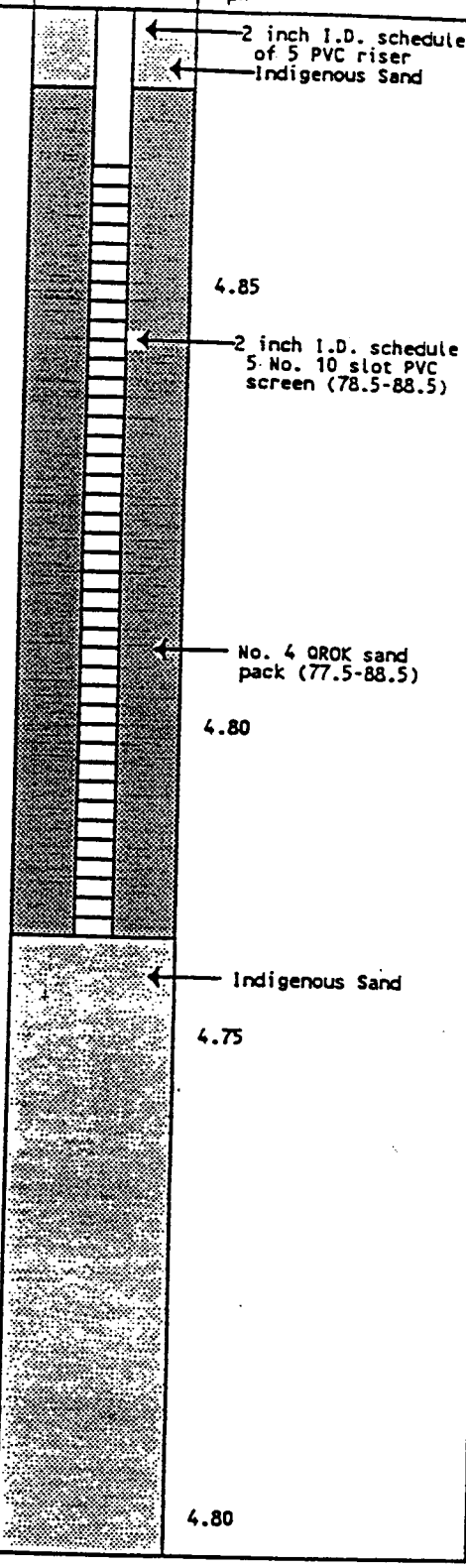
PROJECT
Proposed C&D Landfill
Camillus, New York

BORING NO. MW-1D
SHEET 5 OF 6
FILE No. R5852
CHKD. BY EJH

(MWB-1D)

SAMPLE BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)	SAMPLE DESCRIPTION
28					
17	S-26	80-81.4	--	85	. . . very dense, trace Gravel
31					
50/ 0.4					
30	S-27	85-86.3	--	100	. . . some Silt
35					
0/ 0.3					
30	S-28	90-91.5	66	100	. . . some Gravel
26					
40					
15	S-29	95-96.5	62	100	
29					
33					

EQUIPMENT INSTALLATION LOG



pH

NOTES

LEGEND
Split Spoon Soil Sample
Undisturbed Soil Sample
Rock Core Sample

NOTES:

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING No. MW-1D

.54 NAGEL DRIVE, BUFFALO, NEW YORK
EOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

Proposed C&D Landfill
Camillus, New York

BORING NO. MW-1D
SHEET 6 OF 6
FILE No. R5852
CHKD. BY ERH

(MWB-1D)

SAMPLE BLOWS / 6"	SAMPLE NO.	SAMPLE DEPTH (FT.)	SAMPLE N-VALUE /RQD(%)	SAMPLE RECOVERY (%)	SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG	pH	NOTES
							← Indigenous Sand and Gravel	
17	S-30	100-101.5	75	100	. . . and GRAVEL. little Silt		4.75	
31								
44								
					BOTTOM OF BORING AT 101.5 FT.			

LEGEND
- Split Spoon Soil Sample
- Undisturbed Soil Sample
- Rock Core Sample

NOTES:

RAL ES:
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING No. MW-1D

GZA GEOTECHNICAL ENGINEERING OF NEW YORK, P.C.
364 NAGEL DRIVE, BUFFALO, NEW YORK
GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
Proposed C&D Landfill
Camillus, New York

BORING NO. MW-1S
SHEET 1 OF 2
FILE No. R5852
CHKD. BY ERH

CONTRACTOR North Star Drilling
DRILLER J. Thew
GZA REPRESENTATIVE R. Szustakowski

BORING LOCATION Not available (MWB-1S)
GROUND SURFACE ELEVATION Not available DATUM Not avail.
START DATE 7/27/89 END DATE 7/27/89

TYPE OF DRILL RIG CME-55
CASING SIZE AND TYPE 4-1/4 inch I.D. HSA
OVERBURDEN SAMPLING METHOD 1-3/8 inch I.D. Split Spoon
ROCK DRILLING METHOD Not Applicable

WATER LEVEL DATA

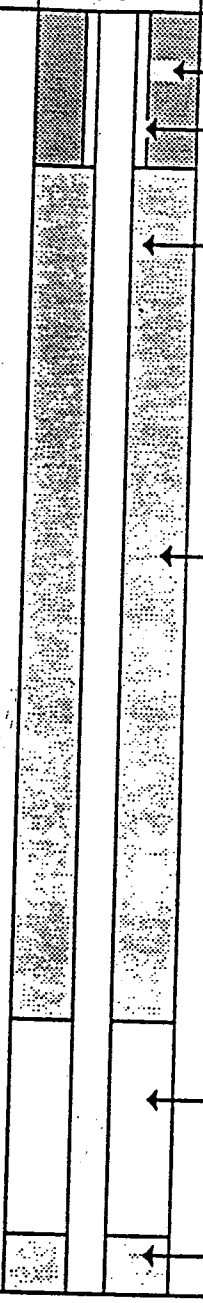
DATE	TIME	WATER	CASING	REMARKS

DEPTH	SAMPLE BLOWS / 6"	SAMPLE NO.	SAMPLE DEPTH (FT.)	SAMPLE N-VALUE /RQD(%)	SAMPLE RECOVERY (%)

SAMPLE DESCRIPTION

Refer to boring MW-1D for subsurface description between 0 and 18 feet

EQUIPMENT INSTALLATION LOG



NOTES

1

LEGEND
S - Split Spoon Soil Sample
U - Undisturbed Soil Sample
C - Rock Core Sample

NOTES: 1. Driller noted change in auger rate at 7 feet. Sand and Gravel interface.

GENERAL NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA

BORING No. MW-1S

364 NAGEL DRIVE, BUFFALO, NEW YORK

GEOTECHNICAL/GEOHYDROLOGICAL CONSULTANTS

PROJECT
Proposed C&D Landfill
Camillus, New York

BORING No. MW-1S
SHEET 2 OF 2
FILE No. R5852
CHKD. BY ERH

SAMPLE					SAMPLE DESCRIPTION	EQUIPMENT INSTALLATION LOG (MWB-1S)	NOTES
BLOWS / 6"	NO.	DEPTH (FT.)	N-VALUE /RQD(%)	RECOVERY (%)			
10	S-1	18-20	24	50	Medium dense, brown, fine to coarse SAND and GRAVEL, little Clayey Silt, wet	2 inch I.D. schedule 5 PVC riser (0-17.8 feet); 2 inch I.D. schedule 5 No. 10 slot PVC screen (17.8-22.8 feet); No. 4 QROK Sand (16.5-25 feet)	2
12							
12							
10							
					BOTTOM OF BORING AT 25 FT.		3

LEGEND
S - Split Spoon Soil Sample
U - Undisturbed Soil Sample
C - Rock Core Sample

NOTES: 2. Driller noted change in auger advancement.
3. Boring advanced to 25 feet to allow proper placement of well screen.

GENERAL NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING No. MW-1S

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-PZ-07
Client: Honeywell, Inc.	Sampler: 2" I.D. split-spoon	Page 1 of 3
Proj. Loc: Settling Basins 9-15, Camillus & Geddes, NY	Hammer: 140 lbs	Location:
File No.: 1163/35030	Fall: 30"	Start Date: 7/20/04 End Date: 7/21/04
Boring Company: Parratt-Wolff Foreman: Mark Eaves OBG Geologist: Nathyn Knipe		Screen = \ Grout Riser Sand Pack Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equipment Installed
						Brown silt/sand with organics, moist	Silty sand with organics	
0		2	3/3	24"/4"	7			
			4/3					
								2.7'
2		4	4/4	24"/12"	7			
			3/1			3" to 4" brown silt/sand with organics, moist; last 8" to 9" Solvay waste		
4		6	WH/WH	24"/1.8	1	Solvay waste		
			1/1					
6		8	1/1	24"/4"	2	Solvay waste		
			1/1				Solvay waste	
8		10	WH/WH	24"/12"	1	Solvay waste - saturated		
			1/1					
10		12	1/1	24"/24"	1	Solvay waste - wet		
			WH/WH					
12		14	WH/WH	24"/14"		Solvay waste - wet		
			WH/WH					
14		16				Shelby tube - 24" recovery		
								16'
16		18	7/7	24"/6"	11	Solvay waste	Shelby tube	
			4/3					
								18'
18		20	6/4	24"/24"	7	Solvay waste		
			3/2					
20		22	WH/WH	24"/24"		Solvay waste	Solvay waste	
			WH/WH					
22		24	WH/WH	24"/24"		Solvay waste		
			WH/WH					
								24'
24		26				Shelby tube - 24" recovery	Shelby tube	
								26'
26		28	WH/WH	24"/24"		Solvay waste		This boring log applies to SP915-PZ-07S, SB915-PZ-07I, SB915-PZ-07N, and SB915-PZ-07D. The screen intervals for these wells are 8-18 ft, 30-40 ft, 68-78 ft, and 53-63 ft, respectively.
			WH/WH				Solvay waste	
28		30	WH/WH	24"/24"		Solvay waste		
			WH/WH					
30		32	WH/WH	24"/24"		Solvay waste		
			WH/WH					

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-PZ-07
Client: Honeywell: Geotechnical Evaluation	Sampler: 2" I.D. split-spoon	Page 2 of 3
Proj. Loc: Syracuse, NY	Hammer: 140 lbs	Location:
File No.: 1163/35030	Fall: 30"	Start Date: 7/20/04 End Date: 7/20/04
Boring Company: Parratt-Wolff Foreman: Mark Eaves OBG Geologist: Nathyn Knipe		Screen = \ Grout Riser Sand Pack Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equipment Installed
32						Solvay waste but more compact, crumbles to some degree, not quite as runny as others		
								34'
34		36				Shelby tube - 24" recovery		
							Shelby tube	36'
36		38	WH/WH	24"/24"		Solvay waste - wet		
			WH/WH					
38		40	WH/WH	24"/24"		Solvay waste, wet, 2" section of dark grey material at 38'		
			WH/WH					
40		42	WH/WH	24"/24"		Solvay waste - saturated (slurry like)		
			WH/WH					
42		44	WH/WH	24"/24"		Solvay waste - wet		
			WH/WH					
44		46	WH/WH	24"/24"		Solvay waste		
			WH/WH					
46		48	WH/WH	24"/24"		Solvay waste		
			WH/WH					
48		50	WH/WH	24"/24"		Solvay waste	Solvay waste	
			WH/WH					
50		52	WH/WH	24"/24"		Solvay waste		
			WH/WH					
52		54	WH/WH	24"/24"		Solvay waste		
			WH/WH					
54		56	WH/WH	24"/24"		Solvay waste		
			WH/WH					
56		58	WH/WH	24"/24"		Solvay waste		
			WH/WH					
58		60	WH/WH	24"/24"		Solvay waste		
			WH/WH					
60		62	WR/WR	24"/24"		Solvay waste		
			WR/WR					
62		64	WH/WH	24"/24"	1	Solvay waste, slightly more dense, little more crumbly in nature, little less water content		
			WH/WH					

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	REPORT OF BORING SB915-PZ-07
Client: Honeywell: Geotechnical Evaluation	Sampler: 2" I.D. split-spoon	Page 3 of 3
Proj. Loc: Syracuse, NY	Hammer: 140 lbs	Location:
File No.: 1163/35030	Fall: 30"	Start Date: 7/20/04 End Date: 7/21/04
Boring Company: Parratt-Wolff Foreman: Mark Eaves OBG Geologist: Nathyn Knipe		Screen = \ Grout Riser Sand Pack Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equipment Installed
64		66	WH/WH	24"/24"		Solvay waste, slightly more dense, little more crumbly in nature, little less water content - WET (Solvay waste)		
			WH/WH					
66		68	WH/WH	24"/12"		Solvay waste, brown soft silt, fine sand, with trace organics, moist @ 68' (2" in depth)		66.5
			WH/WH				Silt and fine sand	
68		70	WH/WH	24"/4"		Silt with fine sand, moist		
			WH/WH					70
70		72	8/16	24"/10"	31	Very hard clayey/silt with fine sand, moist		
			15/12					
72		74	8/8	24"/8"	17	Hard brown clay, moist	Clay	
			9/10					74
74		76	5/6	24"/8"	11	Stiff clay with fine sand		
			5/5				Clay and fine sand	
76		78	4/4	24"/12"	8	Stiff clay with fine sand		78
			4/4					
						E.O.B.		

SUBSURFACE LOG WB-IL

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	DESCRIPTION
0		S1	12	10	Red-brown silty CLAY, mottled, slight laminations, moist.
5		S2	24	6	Red-brown CLAY interbedded with brown fine sandy SILT, varves 2 - 3 inches thick, moist.
10		S3	12	49	Light brown silty fine SAND, dry.
		S4	1/2	82	Pushed gray brown siltstone COBBLE.
15		S5	24	48	Light brown fine SAND, trace medium sand and silt, laminated, moist gradational to brown silty fine SAND with lenses of silty CLAY, laminated, moist to damp.
		S6	18	48	
		S7	17	31	
20		S8	24	23	
25		S9	21	27	Reddish brown fine SAND, trace medium to coarse sand, silt, wet.
30		S10	19	27	Brown fine SAND interbedded with silt-clay layers, varves.
35		S11	2	60/0.3	Very difficult augering 34.8 - 36.9. Dark gray ROCK CHIPS in matrix of silty fine sand.
		S12	24	78	Brown and gray silty coarse to fine GRAVEL, little coarse to fine sand, wet. Gravel subangular.
40		S13	10	80	Brown silty coarse SAND, little fine gravel, one 1-inch lense of red silty coarse to fine sand, till-like material.
45		S14	12	81	Brown silty coarse to fine SAND, wet, faintly laminated.

WELL COLUMN

GEOLOGIC COLUMN

SURFACE ELEVATION 403.9

DATE STARTED 11/12/87

DATE COMPLETED 11/16/87

CLASSIFIED BY GMT

PROJECT Allied-Signal Inc.

SHEET 1 OF 2

NO. WB-1L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-IL (CONT'D)

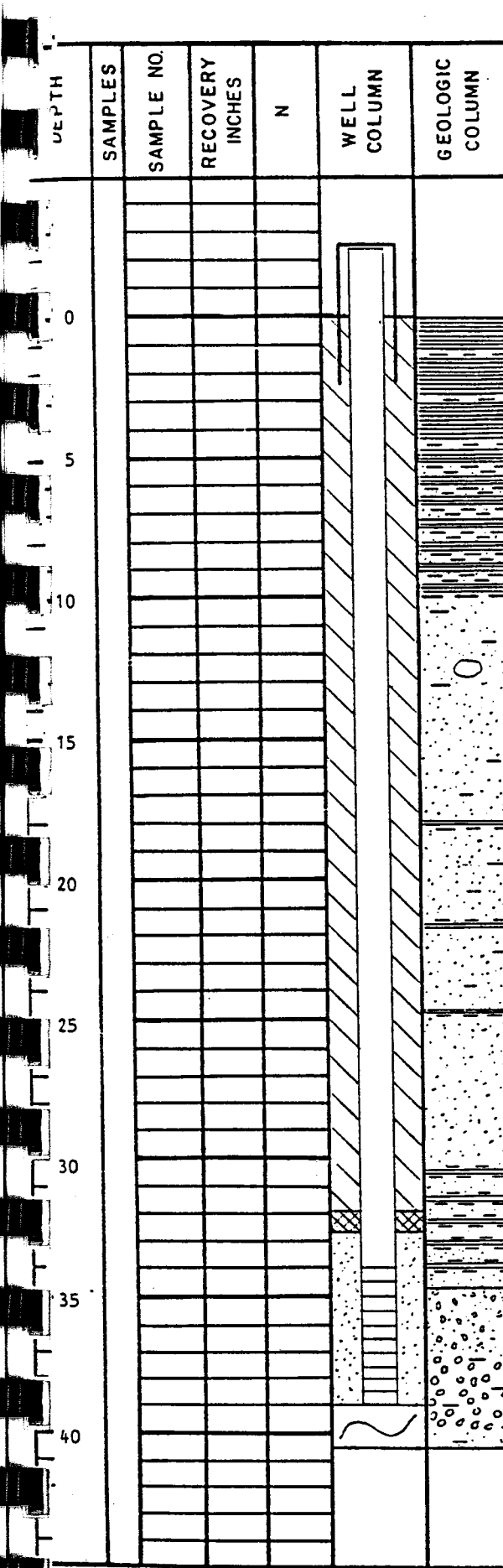
DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
45							
		S15	10	18			
50		S16	12	38			
		S17		27			
55							
		S18	18	88			
60		S19	19	76			Gray brown coarse to fine SAND, little fine gravel, silt. One 1-inch enclusion of red till in bottom 2-inch of sample.
							Red coarse to fine sandy SILT.
		S20	24	29			TILL Gray to reddish brown coarse to fine sandy SILT.
65		S21	24	48			Reddish brown silty coarse to fine GRAVEL.
		S22	18	83			
70		S23	24	80			
		S24	6	75/.5			Gray brown silty coarse to fine SAND, little fine gravel.
75							Boulder? at 78' - very difficult augering.
		S25	14	100/0.7			Dark red-purple silty coarse to fine SAND, little fine gravel. TILL Gray broken coarse gravel.
80		S26	1	50/.1			Red SILT, little coarse to fine sand, TILL.
		S27	4	110/0.5			Bottom of boring 82.8 '. Unable to advance boring to bedrock due to adverse drilling conditions.

SURFACE ELEVATION 403.9
DATE STARTED 11/12/87
DATE COMPLETED 11/16/87
CLASSIFIED BY GMT

PROJECT Allied-Signal Inc.
SHEET 2 OF 2
NO. WB-1I

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-1U



DESCRIPTION

Note: WB-1U was installed in a borehole located within approximately 20 feet of WB-1L. The geology shown on this log represents what was encountered in WB-1L and no samples were taken for this boring.

Red-brown silty CLAY, mottled, slight laminations, moist.

Red-brown CLAY interbedded with brown fine sandy SILT, laminations 2 - 3 inches thick, moist, varves.

Light brown silty fine SAND, dry.

Pushed gray brown siltstone COBBLE.

Light brown fine SAND, trace medium sand and silt, laminated, moist gradational to brown silty fine SAND with lenses of silty CLAY, laminated, moist to damp.

Reddish brown fine SAND, trace medium to coarse sand, silt, wet.

Brown fine SAND interbedded with silt-clay layers, varves.

Very difficult augering 34.8 - 36.9.
Dark gray ROCK CHIPS in matrix of silty fine sand.

Brown and gray silty coarse to fine GRAVEL, little coarse to fine sand, wet. Gravel subangular.

Brown silty coarse SAND, little fine gravel.

Bottom of boring 40.5'.

SURFACE ELEVATION 404.1
DATE STARTED 11/17/87
DATE COMPLETED 11/17/87
CLASSIFIED BY GMT

PROJECT Allied-Signal Inc.
SHEET 1 OF 1
NO. WB-1U

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-2L

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
							Note: Borehole for WB-2L is a nominal 6-1/2 inches advanced with an air rotary rig using the Odex System. No samples taken above 97 ft. Samples taken below 97 ft. were cuttings. Geology above 97 feet is from 2La.
0							Black to brown organic silt and clay. TOPSOIL. Red to brown silty CLAY.
5							Brown to red brown, fine SAND, little silt, trace clay, moist.
10							Gray to brown sandy coarse to fine GRAVEL, little silt, dry, occasional sand lenses.
15							
20							
25							Wet at 26'±.
30							
35							
40							Gray coarse SAND, little medium to fine sand, trace silt and clay.
45							

SURFACE ELEVATION 400.7
DATE STARTED 11/23/87
DATE COMPLETED 11/25/87
CLASSIFIED BY CMT

PROJECT Allied-Signal Inc.
SHEET 1 OF 3
NO. WB-2L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG

WB-2L (CONT'D)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
45							
							Red-brown sandy SILT, trace fine gravel.
							Red-brown to gray coarse to fine sandy GRAVEL, little to trace silt and clay.
50							
55							
							Gray coarse SAND, little fine sand, silt.
60							Dark red to dark gray, sandy coarse to fine GRAVEL, little to trace silt and clay.
65							
70							Occasional lenses of TILL-like gray to greenish clayey SILT, little coarse to fine sand and coarse to fine gravel from 69-74 feet.
75							
80							
85							
90							6-inch steel casing installed during advancement of boring using the Odex System. Casing pulled back to 92 feet at completion of boring.
95							

SURFACE ELEVATION 400.7

DATE STARTED 11/22/87

DATE COMPLETED 11/25/87

CLASSIFIED BY CMT

PROJECT Allied-Signal Inc.

SHEET 2 OF 3

NO. WB-2L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-2L (CONT'D)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
95							Gray GRAVEL, little silt, drilling became harder at 97'.
		NA	NA	NA			
100							
					SUMP		
105		NA	NA	NA			Red fine sandy SILT and CLAY. TILL
							Top of rock at 108 ft.
		NA	NA	NA			Green to gray weathered to unweathered SHALE.
110							
							Bottom of boring 111.6'.
115							

SURFACE ELEVATION 400.7
DATE STARTED 11/23/87
DATE COMPLETED 11/25/87
CLASSIFIED BY CMT

PROJECT Allied-Signal Inc.
SHEET 3 OF 3
NO. WB-2L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-2U

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
							Note: WB-2U was installed in a borehole located within approximately 20 feet of WB-2La. The geology shown on this log represents what was encountered in WB-2La and no samples were taken for this boring.
0							Black to brown organic silt and clay. TOPSOIL. Red to brown silty CLAY.
5							Brown to red brown, fine SAND, little silt, trace clay, moist.
10							Gray to brown sandy coarse to fine GRAVEL, little silt, dry, occasional sand lenses.
15							
20							
25							Wet at 26'±.
30							
35							
40							Gray coarse SAND, little medium to fine sand, trace silt and clay.
45							Bottom of Boring 45.0'.

SURFACE ELEVATION 400.4
DATE STARTED 10/9/87
DATE COMPLETED 10/12/87
CLASSIFIED BY SPS

PROJECT Allied-Signal Inc.
SHEET 1 OF 1
NO. WB-2U

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-3L

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
0		S-1	10	4			Brown organic silty fine sand, TOPSOIL. Light brown silty CLAY.
		S-2	14	10			
5		S-3	24	9			
		S-4	12	13			Light brown silty fine SAND, laminated with fine sandy SILT.
		S-5	6	9			
10		S-6	8	12			
		S-7		14			
		S-8	11	19			
15		S-9	12	19			
		S-10	12	15			
20		S-11	15.5	7			Brown sandy CLAY, moist.
		S-12	17	76			Coarse to fine GRAVEL in silty CLAY matrix.
25		S-13	18	81			
		S-14	NR	25+			
		S-15	14	53			Brown to purplish fine sandy SILT, little to trace gravel, moist.
30		S-16	17	28			
		S-17	24	45			
		S-18	24	87			Brown medium to fine SAND, little silt, moist.
35		S-19	18	95			Brown, reddish brown and gray fine gravelly, coarse to fine SAND, little silt, wet with minor amounts of coarse gravel and clay.
		S-20	10	100+			
40		S-21	11	100+			
		S-22	14	79			
		S-23	24	51			

URFACE ELEVATION 401.5
DATE STARTED 10/5/87
ATE COMPLETED 10/7/87
LASSIFIED BY KLR, CMT

PROJECT Allied-Signal Inc.
SHEET 1 OF 2
NO. WB-3L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG

WB-3L (CONT'D)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
		S-24	24	54			
		S-25	24	54			
50		S-26	14	33			
		S-27	24	120			
		S-28	17	55			
55		S-29	15	88			Purplish brown fine SAND, little silt.
		S-30		66			
60		S-31	24	68			
		S-32	24	118			
65		S-33	22	120			
70							
		S-34	24	69			Gray brown fine to medium SAND, trace silt.
75		S-35	8	125+			Gray-purple sandy SILT, trace gravel, clay.
		S-36	NR	50+			Top of rock at 77.5'.
80		core	3.6'	8 min			Light gray soft weathered shale, with numerous subhorizontal joints, open joint at 79.7-79.8 filled with clay and rock fragments.
				7 min			Very soft zone, recovered gray clay.
				2 min			Dark gray unweathered shale with numerous subhorizontal joint fillings of gypsum, numerous subhorizontal drilling breaks.
85				8 min			
				8 min			Bottom of boring 84.6'.
90							

SURFACE ELEVATION 401.5

DATE STARTED 10/5/87

DATE COMPLETED 10/7/87

CLASSIFIED BY KLR/GMT

PROJECT Allied-Signal Inc.

SHEET 2 OF 2

NO. WB-3L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-3U

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
							Note: WB-3U was installed in a borehole located within approximately 20 feet of WB-3L. The geology shown on this log represents what was encountered in WB-3L and no samples were taken for this boring.
0							Brown organic silty fine sand, TOPSOIL. Light brown silty CLAY.
5							Light brown silty fine SAND, laminated with fine sandy SILT.
10							
15							
20							Brown sandy CLAY, moist.
25							Coarse to fine GRAVEL in silty CLAY matrix.
30							Brown to purplish fine sandy SILT, little to trace gravel, moist.
35							Brown medium to fine SAND, little silt, moist.
40							Brown, reddish brown and gray fine gravelly, coarse to fine SAND, little silt, wet with minor amounts of coarse gravel and clay.
							Bottom of boring 45.0'.

SURFACE ELEVATION 401.7
DATE STARTED 10/26/87
DATE COMPLETED 10/26/87
CLASSIFIED BY GMT

PROJECT Allied-Signal Inc.
SHEET 1 OF 1
NO. WB-3U

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-4L

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
0		S-1	14	49			Light gray fine gravelly coarse to fine SAND, little silt, damp to dry.
		S-2	3	50+			
5		S-3	8	38			
		S-4	10	24			
		S-5	10	33			
10		S-6	12	31			Light gray to brown with flecks of green and red clayey SILT, little sand, fine gravel.
		S-7	10	38			
15		S-8	5	30			
		S-9	NR	20			
		S-10	8	12			
20		S-11	8	12			
		S-12	10	13			
25		S-13	17	17			
		S-14	15	25			
		S-15	11	16			
30		S-16	15	21			
		S-17	15	20			
35		S-18	17	23			
		S-19	16	32			
		S-20	15	27			
40		S-21	19	41			Gray coarse to fine gravelly coarse SAND, little green and red clay, trace silt.
		S-22	15	33			
		S-23	21	27			

SURFACE ELEVATION 396.4
DATE STARTED 10/12/87
DATE COMPLETED 10/15/87
CLASSIFIED BY SPS, KLR

PROJECT Allied-Signal Inc.
SHEET 1 OF 3
NO. WB-4L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG

WB-4L (CONT'D)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
		S-24	14	29			
		S-25	12	21			Brown to gray, with red and green flecks gravelly CLAY, little coarse sand, silt, wet.
50		S-26	8	23			
		S-27	11	106			
		S-28	NR	50+			
55		S-29	NR				
		S-30	NR	75+			
60		S-31	12	66+			Dark gray gravelly coarse SAND, trace silt, clay.
		S-32	20	97			Brown to gray, with red and green flecks, gravelly CLAY, little coarse sand, trace silt.
65		S-33	15	83+			Red and green medium to coarse SAND, little clay, trace silt, fine gravel, wet.
70		S-34	NR	50+			
75		S-35	12	63+			Brown-gray gravelly coarse to medium SAND, little clay.
		S-36	6	100+			
80		S-37	6	96+			
		S-38	4.8	100+			
85		S-39	9	50+			
90		S-40	18	62			
		S-41	11	115			
		S-42	15	61			

SURFACE ELEVATION 396.4

DATE STARTED 10/12/87

DATE COMPLETED 10/15/87

CLASSIFIED BY SPS, KLR

PROJECT Allied-Signal Inc.

SHEET 2 OF 3

NO. WB-4L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG

WB-4L (CONT'D)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
		S-43	13	130			
100		S-44	10	37+			Red CLAY, little gravel, sand, trace silt, TILL.
105		S-45	7	50+			
110		S-46	7.5	50+			Top of rock at 113.5'.
							Green weathered SHALE.
115		S-47	4.2	100+			115.8'-116.8' green SHALE weathered to silty clay with numerous platey shale fragments.
		core	4.5'	6 min			116.8'-117.6' dark gray SHALE, relatively unweathered with occasional subhorizontal joints filled with gypsum up to ½-inch thick.
				6 min			
				7.5min			
120				9 min			
				9 min			117.6'-118.8' light gray SHALE with several thin stringers of gypsum, one broken zone with gypsum filled voids.
							118.8'-120.6' green SHALE weathered and unweathered zones, numerous subhorizontal joints or breaks along bedding plane.
							Bottom of boring 120.6'.

SURFACE ELEVATION 396.4

DATE STARTED 10/12/87

DATE COMPLETED 10/15/87

CLASSIFIED BY SPS, KLR

PROJECT Allied-Signal Inc.

SHEET 3 OF 3

NO. WB-4L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-4U

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
							Note: WB-4U was installed in a borehole located within approximately 20 feet of WB-4L. The geology shown on this log represents what was encountered in WB-4L and no samples were taken for this boring.
0							Light gray fine gravelly coarse to fine SAND, little silt, damp to dry.
10							Light gray to brown with flecks of green and red clayey SILT, little sand, fine gravel.
40							Bottom of boring 39.0'.

SURFACE ELEVATION 396.2
DATE STARTED 10/16/87
DATE COMPLETED 10/16/87
CLASSIFIED BY KLR

PROJECT Allied-Signal Inc.
SHEET 1 OF 1
NO. WB-4U

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-5L

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
0		S-1	15.5	15			Black CINDERS.
		S-2	9	36			Brown to black CINDERS with variable amounts of gravel, sand and silt.
5		S-3	10	33			- FILL -
		S-4	14	24			
		S-5	13	15			Wet at approximately 8.5 feet.
10		S-6	7.5	5			
		S-7	7	3			Brown CLAY, trace silt.
15		S-8	10	8			
		S-9	11	21			
		S-10	13	20			Brown CLAY with fine laminations of gray fine sand.
20		S-11	14	14			
		S-12	7	10			Gray brown SILT, trace clay with laminations of fine sand and clay grading downward to:
25		S-13	16	7			
		S-14	14	4			
		S-15	17	8			
30		S-16	10	8			Brown gray fine SAND with thin laminations of clay and silt, occasional lenses of silty sand and medium to fine sand with fine gravel.
		S-17	14	13			
35		S-18	24	8			
		S-19	12	11			
		S-20	10	9			
40		S-21	14	12			
		S-22	22	19			
		S-23	15	12			

SURFACE ELEVATION 386.0
DATE STARTED 10/19/87
DATE COMPLETED 10/22/87
CLASSIFIED BY KLR, GMT

PROJECT Allied-Signal Inc.
SHEET 1 OF 3
NO. WB-5L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-5L (CONT'D)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
		S-24	15	13			
		S-25	24	4			
50		S-26	11	2			
		S-27	8	29			
		S-28	15	37			Dark gray coarse to fine gravelly coarse to fine SAND, little to trace silt and clay.
55		S-29	19	26			
		S-30	24	19			
60		S-31	14	24			
		S-32	19	35			
		S-33	11	47			
65		S-34	13	85			Red SILT, little coarse to fine gravel, trace clay.
		S-35	14	54			Red and green coarse to medium SAND, trace fine gravel, silt.
70		S-36	12	109+			
		S-37	2	100+			Gray gravelly coarse to fine SAND little silt gradational to gray silty coarse to fine SAND, little fine gravel, slight stratification in some areas.
		S-38	2.5	62+			
75		S-39	12	91			
		S-40	18	62			
80		S-41	16	51			
		S-42	18	49			
85							
		S-43	19	54			
90							

SURFACE ELEVATION 386.0
DATE STARTED 10/19/87
DATE COMPLETED 10/22/87
CLASSIFIED BY KLR, CMT

PROJECT Allied-Signal Inc.
SHEET 2 OF 3
NO. WB-5L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG

WB-5L (CONT'D)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
		S-44	9.5	86			Gray brown to reddish brown to red silty fine SAND stratified, occasional lenses with medium to fine sand grading downward to:
100		S-45	13	146			
105		S-46	7	101			
							Red and green fine SAND, little silt, fine gravel, stratified.
110		S-47	9	78			
115		S-48	16	73			
120							Coarse to fine GRAVEL, little silt.
		S-49	9	130			Red SILT, little coarse to fine gravel, trace clay, TILL.
125		S-50	6	80+			
130		S-51	4	122+			Top of rock at 134.5.
135		S-52	2.5	200+			Gray fissle SHALE.
		core	2.6'	7 min			Interbedded dark and light gray horizontally bedded SHALE with numerous subhorizontal to subvertical thin (typically less than 1/16 inch thick) joints filled with gypsum.
				5.5 min			
140				7.5 min			
				6.5 min			Bottom of boring 141.0'.

SURFACE ELEVATION 386.0

DATE STARTED 10/19/87

DATE COMPLETED 10/22/87

CLASSIFIED BY KLR, GMT

PROJECT Allied-Signal Inc.

SHEET 3 OF 3

NO. WB-5L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-5M

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
							Note: WB-5M was installed in a borehole located within approximately 20 feet of WB-5L. The geology shown on this log represents what was encountered in WB-5L and no samples were taken for this boring.
0							Black CINDERS.
							Brown to black CINDERS with variable amounts of gravel, sand and silt.
5							- FILL -
							Wet at approximately 8.5 feet.
10							
							Brown CLAY, trace silt.
15							
							Brown CLAY with fine laminations of gray fine sand.
20							
							Gray brown SILT, trace clay with laminations of fine sand and clay grading downward to:
25							
30							Brown gray fine SAND with thin laminations of clay and silt, occasional lenses of silty sand and medium to fine sand with fine gravel.
35							
40							
45							

SURFACE ELEVATION 386.1
DATE STARTED 11/11/87
DATE COMPLETED 11/11/87
CLASSIFIED BY CMT

PROJECT Allied-Signal Inc.
SHEET 1 OF 2
NO. WB-5M

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG

WB-5M (CONT'D.)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
45							
50							
55							Dark gray coarse to fine gravelly coarse to fine SAND, little to trace silt and clay.
60							
65							Bottom of boring 63.0 feet.

SURFACE ELEVATION 386.1
DATE STARTED 11/11/87
DATE COMPLETED 11/11/87
CLASSIFIED BY CMT

PROJECT Allied-Signal Inc.
SHEET 2 OF 2
NO. WB-5M

BLASLAND & BOUCK ENGINEERS, P.C.

Date Start/Finish: 12/12/94 / 12/16/93
Drilling Company: Parratt-Wolff, Inc.
Driller's Name: Billy Rice
Drilling Method: Mud Rotary/Spun Casing
Bit Size: 5.88 and 3.88-in.
Rig Type: CME 75
Sampling Method: HQ-wireline-3.8-in.

Northing:
Easting:
Well Casing Elev.: 387.08 ft.
Corehole Depth: 163 ft.
Borehole Depth: 163 ft.
Ground Surface Elev.: 385.87 ft.

Geologist: Lynette B. Mokry

Well No. WB-5R

Client:
AlliedSignal, Inc.

Location:
Solvay, New York

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Minutes/Foot	RQD	Recovery	Geologic Column	Stratigraphic Description	Well Construction
gs elevation 385.87 ft								GROUND SURFACE	4-inch dia., locking protective casing
0	385							FILL Black CINDERS.	
								Brown to black CINDERS with variable amounts of gravel, sand, and silt.	1.5' dia. cement pad to 1.5' BGS.
	380								
10								@8.5', becomes wet.	2-inch I.D., Sch.40 PVC (1.2' - 146.5' BGS)
	375							OVERBURDEN DEPOSITS @12' Brown CLAY, trace silt.	
	370								Neat cement grout (1.5'-142' BGS)
20								Brown CLAY with fine laminations of gray fine sand.	6-inch I.D. temporary casing to 18 feet BGS.
	365								
								Gray-brown SILT, trace clay with laminations of fine sand and clay, grading downward to:	
	360								
30									

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

WB-5R was installed within approximately 20 feet of WB-5L. The geology of the unconsolidated deposits on this log represents what was encountered in WB-5L, as bedrock coring was the only sampling conducted at the WB-5R location.

Water Levels

Date / Time	Elevation	Depth
12-23-94	362.5	23.4 ▼
01-12-95	361.8	24.1 ▼

Project: 131.51 03
Script: nl3lrock
Date: 03/11/95

Location:
Solvay, New York

Well No. WB-5R

Total Depth = 183 ft.

Client:
AlliedSignal, Inc.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Minutes/Foot	RQD	Recovery	Geologic Column	Stratigraphic Description	Well Construction
	355							Brown-gray fine SAND with thin laminations of clay and silt, occasional lenses of silty sand and medium to fine sand with fine gravel.	
	350							Brown-gray fine SAND with thin laminations of clay and silt, occasional lenses of silty sand and medium to fine sand with fine gravel.	
40	345								
	340								
50	335							Dark gray gravelly coarse to fine SAND, little to trace silt and clay.	
	330							Dark gray gravelly coarse to fine SAND, little to trace silt and clay.	
60	325								
	320							Red SILT, little coarse to fine gravel, trace clay.	
70								Red and green coarse to medium SAND, trace fine gravel, silt.	

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

6-inch I.D. temporary casing was spun to 18 feet BGS, to isolate borehole from highly permeable cinder fill.

Water Levels

Date / Time	Elevation	Depth
12-23-94	362.5	23.4 ⊽
01-12-95	361.8	24.1 ⊽

Location:
Solvay, New York

Well No. WB-5R

Total Depth = 183 ft.

Client:
AlliedSignal, Inc.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Minutes/Foot	RQD	Recovery	Geologic Column	Stratigraphic Description	Well Construction
	315								
								Gray gravelly coarse to fine SAND, little silt, gradational to gray silty coarse to fine SAND, little fine gravel, slight stratification in some areas.	
	310							Gray gravelly coarse to fine SAND, little silt, gradational to gray silty coarse to fine SAND, little fine gravel, slight stratification in some areas.	
80	305								
	300								
90	295								
	290							Gray–brown to reddish brown to red silty fine SAND, stratified, occasional lenses with medium to fine sand grading downward to: red and green fine SAND, little silt, fine gravel, stratified.	
100	285								
	280								
110								Red and green fine SAND, little silt, fine gravel, stratified.	

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

Water Levels

Date / Time	Elevation	Depth
12-23-94	362.5	23.4 ▼
01-12-95	361.8	24.1 ▼

Location: Solvay, New York

Client: AlliedSignal, Inc.

Well No. WB-5R

Total Depth = 163 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Minutes/Foot	RQD	Recovery
0	275					
10	270					
20	265					
30	260					
40	255					
50	250					
60	245	R-1		10 / 10 / 10 / 7.5	0	100%
70	240	R-2		10 / 5 / 5 / 4 / 5	29	100%
80	235	R-3		8 / 5 / 6 / 7 / 8	46	100%

Geologic Column

Stratigraphic Description

Red and green fine SAND, little silt, fine gravel, stratified.

Coarse to fine GRAVEL, little silt.

TILL @121.5'
Red SILT, little coarse to fine gravel, trace clay.

VERNON FORMATION BEDROCK @134.5'
Dark gray, laminated, limey SHALE, very closely jointed (horiz./ sub-horiz.), fissile, highly weathered, soft, partings of calcite and selenite gypsum.

@139-139.25', Gypsum-filled vert. joint.

@140.5', becomes moderately weathered, closely jointed (horiz./ sub-horiz.), partings of calcite.

Gray-green, limey MUDSTONE, closely jointed (horiz./sub- horiz.), moderately to slightly weathered, soft, partings of gypsum and calcite.
@145.2-145.3', weathered, broken.

@147-147.1', white dolomite.

Well Construction

- 4-inch I.D. temporary casing to 137.9' BGS
- 3.8-inch corehole (138' to 163' BGS)
- Bentonite slurry seal (142'- 144.4' BGS)
- Morie No. OON sand (144.4'- 158' BGS)

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

Top of bedrock at approx. 134.5' BGS based on changes noted during drilling at WB-5R and WB-5L. 4-inch I.D. temporary casing was spun to 137.9 feet BGS prior to coring with HQ wireline.

Water Levels

Date / Time	Elevation	Depth
12-23-94		23.4 ▼
01-12-95	361.8	24.1 ▼

Location: Solvay, New York

Client: AlliedSignal, Inc.

Well No. WB-5R

Total Depth = 163 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Minutes/Foot	RQD	Recovery	Geologic Column	Stratigraphic Description	Well Construction
		R-3		8	4ft	100%		@147.2-147.8', weathered, broken (sub-horiz. joints @approx. 20°), iron-staining and gray-green clayey silt.	2-inch I.D., Sch.40 PVC, 0.01-inch slotted screen (146.5'-156.1' BGS)
	235	R-4		5 5 5 8 8	15	100%		@150.5', joints become coated with green clayey silt, partings of gypsum.	
	230	R-5		5 5 7 8 4	18	100%		@151.7-152.5', Green MUDSTONE with white dolomite pockets, closely jointed (horiz/sub-horiz. and 1 vert., gypsum-filled) moderately weathered, soft.	2-inch I.D. PVC sump (156.1'-156.5' BGS)
160	225	R-6		5 8 37.5	45	100%		Dark gray-green, laminated, limey SHALE, closely jointed (horiz./sub-horiz.), fissile, slightly weathered, soft, partings of calcite and selenite gypsum.	Formation collapse (158' to 163' BGS)
								@158.5-158.5', Gypsum-filled vert. joint.	
								@157.8-158.6', very closely jointed (horiz./sub-horiz., 1 vert.).	
	220							Gray-green MUDSTONE with white dolomite pockets, closely jointed (horiz./sub-horiz.), slightly weathered, soft, partings of gypsum.	
								Dark gray, laminated, limey SHALE, closely jointed (horiz./sub-horiz.), slightly weathered to fresh, soft, calcite crystals on bedding planes.	Bottom of corehole (163'BGS)
170	215							**End of boring at 163 feet.**	
	210								
180	205								
	200								
	190								

BLASLAND, BOUCK & LEE
ENGINEERS & SCIENTISTS

Remarks:

Water Levels

Date / Time	Elevation	Depth
12-23-94	362.5	23.4 ↧
01-12-95	361.8	24.1 ↧

Project: 131.51 03

Script: n13lrock
Date: 03/11/95

SUBSURFACE LOG WB-5U

...TH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
							Note: WB-5U was installed in a borehole located within approximately 20 feet of WB-5L. The geology shown on this log represents what was encountered in WB-5L and no samples were taken for this boring.
0							Black CINDERS.
							Brown to black CINDERS with variable amounts of gravel, sand and silt.
5							- FILL -
							Wet at approximately 8.5 feet.
0							Brown CLAY, trace silt.
							Bottom of boring 12.5'.

...RFACE ELEVATION 386.1
DATE STARTED 10/23/87
...TE COMPLETED 10/23/87
...ASSIFIED BY KLR, CMT

PROJECT Allied-Signal Inc.
SHEET 1 OF 1
NO. WB-5U

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-6

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
0		S-1	12	9			Topsoil over brick chips, cinders, coal chips, FILL.
		S-2	12	17			Brown to redbrown varved SILT and silty CLAY grading downward to:
5		S-3	18	10			
		S-4	20	8			
		S-5	12	12			
10		S-6	24	7			Varved fine SAND, little silt and clayey SILT grading downward to:
		S-7	18	12			
		S-8	18	9			
15		S-9	14	6			Gray to purple-brown silty fine SAND, laminated.
		S-10		9			
20		S-11	NR	7			
		S-12	12	9			
		S-13	12	7			
25		S-14	18	13			
		S-15	18	13			
30		S-16	18	10			
		S-17	24	25			
		S-18	5	8			
35		S-19	18	8			
		S-20	24	9			
40		S-21	18	7			
		S-22	12	13			
		S-23	18	8			

SURFACE ELEVATION 381.8
DATE STARTED 10/27/87
DATE COMPLETED 10/29/87
CLASSIFIED BY GMT

PROJECT Allied-Signal Inc.
SHEET 1 OF 3
NO. WB-6

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG

WB-6L (CONT'D)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
		S-24	18	50			Gray-brown coarse to fine gravelly coarse to fine SAND, little silt, slight to moderate stratification.
		S-25	12	44			
50		S-26	12	68			
		S-27	18	28			
		S-28	14	19			
55							
		S-29	12	19			
60		S-30	18	15			Gray coarse to fine SAND, little silt, fine gravel, grading downward to:
		S-31	19	19			
		S-32	18	18			
65		S-33	12	21			
		S-34	14	15			
70		S-35	7	14			Gray silty medium to fine SAND, little gravel.
75		S-36	17	34			Red silty coarse to fine SAND, little coarse to fine gravel.
80		S-37	17	76			Red coarse to fine SAND, little silt. Top of rock at 83.0'.
85		S-38	4	73+			Black to gray weathered SHALE with 2-inch thick, subhorizontal joint filled with green, red, gray, yellow, coarse to fine sand in matrix of clay.
90		S-39	2	100+			Green weathered SHALE.
		core	2.8'	8 min			Green soft weathered SHALE with numerous subhorizontal to subvertical joints filled with gypsum.
				6 min			
				1.1 min			

URFACE ELEVATION 381.8

DATE STARTED 10/27/87

ATE COMPLETED 10/29/87

LASSIFIED BY GMT

PROJECT Allied-Signal Inc.

SHEET 2 OF 3

NO. WB-6

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG

WB-6L (CONT'D)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
				9 min 7 min			Gray shale with frequent subhorizontal to subvertical joint fillings of gypsum.
100							Bottom of boring 96.7 feet.

SURFACE ELEVATION 381.8
DATE STARTED 10/27/87
DATE COMPLETED 10/29/87
CLASSIFIED BY GMT

PROJECT Allied-Signal Inc.
SHEET 3 OF 3
NO. WB-6

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-7L

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
							Note: WB-7L was installed in a borehole located within approximately 20 feet of WB-7La. The geology shown on this log represents what was encountered in WB-7La. No samples were taken for this boring.
0							Black silty CINDERS, little coarse to fine sand, FILL.
5							
10							Red to brown CLAY, moist. Occasional lenses of black organic silt.
15							Red to red-brown silty CLAY to clay with little silt. Laminated occasionally with fine silty sand partings.
20							Brown CLAY interbedded with silty fine sand.
25							Brown varved silty fine SAND interbedded with brown CLAY, grading downward to:
30							Brown silty fine SAND, grading downward to:
35							
40							Brown to gray-brown fine SAND, little silt.

SURFACE ELEVATION 377.5
DATE STARTED 11/6/87
DATE COMPLETED 11/9/87
CLASSIFIED BY GMT

PROJECT Allied-Signal Inc.
SHEET 1 OF 2
NO. WB-7L

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG WB-7L (CONT'D)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY (INCHES)	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
50							
							Brown coarse to fine SAND, little fine gravel, trace silt.
55							Brown to red-brown interbedded silty CLAY, silty coarse to fine SAND and fine silty SAND.
60							Gray coarse to fine sandy GRAVEL, little silt to gray fine gravelly coarse to fine SAND, trace silt, occasional silt lense.
65							Red silty coarse to fine SAND, little clay, fine gravel, TILL.
70							Gray-brown gravelly coarse to fine SAND, little silt.
75							Red silty coarse to fine SAND, little fine gravel, TILL.
							Bottom of boring 79 feet.
80							
85							
90							

SURFACE ELEVATION 377.5
DATE STARTED 11/6/87
DATE COMPLETED 11/9/87
CLASSIFIED BY CMT

PROJECT Allied-Signal Inc.
SHEET 2 OF 2
NO. WB-7L

BLASLAND & BOUCK ENGINEERS, P.C.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-WB-07R
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 10/19/2011**
File No.: 1163/48127	**Fall: 30"**	**End Date: 12/20/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Rick Navatka, Doug Richmond		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	1(1.0)/1 (1.0)	2.0/1.0	2	0-0.5 Very soft, moist, brownish black (5YR 2/1) fine to medium SAND, trace silt. 0.5-1.0 Very soft, moist, brownish black, SILT, little fine to medium SAND, few small to medium gravel	Fill			\	0.0	10/19/12 0830
2	2	4	1-1-1-1	2.0/1.4	2	0-1.4 SAA (0.5-1.0) some dark yellowish brown color, little coarse sand.				\	0.0	832
4	3	6	2-4-5-6	2.0/1.3	9	0-0.4 Soft to loose, wet, light olive gray (5Y 6/1) medium to coarse SAND, some small to angular gravel, trace fine sand and silt. 0.4-1.3 Loose, saturated, black (N1) fine to medium to coarse SAND and SILT, few small to medium to large gravel, little slag.				\	0.0	840
6	4	8	3-3-5-2	2.0/1.0	8	0-1.0 Medium, moderate brown (5YR 4/4) SILT, little clay, moist	Silt some clay			\	0.0	844
8	5	10	13-23-8-12	2.0/1.0	31	0-1.0 SAA, dark yellowish brown (10YR 4/2)				\	0.0	855
10	6	12	WH-WH-5-10	2.0/1.2	5	0-1.2 SAA				\	0.0	935
12	7	14	11-13-17-13	2.0/2.0	30	0-2.0 SAA				\	0.0	937
14	8	16	2-3-3-4	2.0/1.8	6	0-1.8 SAA				\	0.0	948
16	9	18	7-4-4-5	2.0/0.0	8	No recovery				\	0.0	955
18	10	20	WR-WR-2-2	2.0/1.5	2	0-1.5 Soft, saturated, dark yellowish brown (10 YR 2/2) SILT and CLAY, cohesive, interbedded lenses of SILT with trace fine sand	Silt and Clay			\	0.0	1005
20	11	22	5-6-6-7	2.0/1.5	12	0-1.5 Medium, saturated, brownish gray (5YR 4/1) SILT, some clay				\	0.0	1125
22	12	24	3-2-1-2	2.0/1.0	3	0-1.0 SAA, no clay, soft				\	0.0	1225
24	13	26	2-1-1-2	2.0/1.5	6	0-1.3 SAA, trace clay				\	0.0	1240
26	14	28	1-2-4-4	2.0/1.5	6	0-1.0 SAA. 1.0-1.5 SAA, no clay				\	0.0	1244
28	15	30	1-3-2-1	2.0/1.0	5	0-1.0 SAA, trace clay				\	0.0	1250
30	16	32	2-4-2-3	2.0/1.5	6	0-1.5 SAA				\	0.0	1300
32	17	34	3-2-2-1	2.0/2.0	4	0-2.0 SAA, little clay				\	0.0	1330
34	18	36	2-2-2-4	2.0/1.3	4	0-1.3 SAA grading to fine sand, trace silt and trace medium sand				\	0.0	1340
36	19	38	3-2-2-4	2.0/1.0	4	0-1.0 Loose, saturated, brownish gray (5YR 4/1) fine to medium SAND	Fine, medium sand			\	0.0	1345
38	20	40	5-6-7-8	2.0/1.3	13	0-1.3 SAA				\	0.0	1402
40	21	42	5-8-8-9	2.0/1.2	16	0-1.2 SAA				\	0.0	1408
42	22	44	5-6-6-6	2.0/1.5	12	0-1.5 SAA				\	0.0	1422
44	23	46	3-3-7-7	2.0/1.2	10	0-1.2 SAA				\	0.0	1505
46	24	48	4-4-6-7	2.0/1.5	10	0-1.5 Loose, saturated, brownish gray (5YR 4/1) fine to medium SAND, trace silt				\	0.0	1515
48	25	50	4-6-7-8	2.0/1.3	13	0-1.3 SAA, no silt				\	0.0	1530

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-WB-07R
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 10/19/2011**
File No.: 1163/48127	**Fall: 30"**	**End Date: 12/20/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Rick Navatka, Doug Richmond		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
50	26	52	4-6-10-10	2.0/1.5	16	0-1.3 SAA. 1.3-1.5 Loose, saturated, brownish gray (5YR 4/1) medium to coarse SAND, some small gravel	Sand and Gravel	\		\	0.0	1537
52	27	54	15-11-4-5	2.0/1.5	15	0-1.0 SAA (1.3-1.5) medium dense. 1.0-1.5 medium, saturated, light brownish gray (5YR 6/1) SILT and CLAY, very cohesive, layers of interbedded silt	Silt and Clay	\		\	0.0	10/20/11 0833
54	28	56	2-1-1-2	2.0/2.0	2	0-2.0 SAA (1.0-1.5) Grading downward to mainly silt, little clay		\		\	0.0	845
56	29	58	2-2-2-2	2.0/2.0	4	0-2.0 SAA, little clay throughout		\		\	0.0	850
58	30	60	Wh-8-16-21	2.0/0.8	24	0-0.4 SAA. 0.4-0.8 Medium dense, saturated, medium sand sized flecks of greenish gray (5GY 6/1) and dark reddish brown (10R 6/1) SILT matrix supporting medium to coarse SAND, few small to medium to large angular gravel	Sand and Gravel	\		\	0.0	937
60	31	62	17-15-13-11	2.0/1.5	28	0-0.3 SAA (0.4-0.8). 0.3-1.5 Medium dense, saturated, brownish gray (5YR 4/1) medium to coarse SAND, some small to medium to large angualr gravel, little silt		\		\	0.0	948
62	32	64	10-8-8-7	2.0/1.5	16	0-1.5 Medium dense, saturated, medium gray (N5) fine to medium to coarse SAND, trace small gravel	FMC Sand	\		\	0.0	1014
64	33	66	5-7-12-20	2.0/1.5	19	0-1.5 SAA, few small to medium to coarse gravel	Sand and Gravel	\		\	0.0	1110
66	34	68	22-27-50/0.4	1.4/1.4	>77	0-1.3 SAA. 1.3-1.5 Very dense, moist, grayish red (10R 4/2) SILT matrix supporting few meidum to coarse SAND and small to medium to large GRAVEL	Till	\		\	0.0	1115
68	35	70	42-46-40-40	2.0/1.5	86	0-1.5 Very dense, saturated, brownish gray (5YR 4/1) fine to medium to coarse SAND and small to medium to large angular gravel, small layer of grayish red (10R 4/1) silt matrix 1.0-1.2	Sand and Gravel	\		\	0.0	1208
70	36	72	42-50/0.4	0.9/0.9	>92	0-0.9 SAA, no till		\		\	0.0	1215
72	37	74	45-43-55-51	2.0/1.5	98	0-1.5 SAA, till (1.3-1.5)		\		\	0.0	1345
74	38	76	22-48-50/0.2	1.2/1.2	>98	0-1.2 Very hard, wet, grayish red (10R 4/2) silt matrix supporting few medium to coarse sand and few small to medium to large, medium gray (N5) and greenish gray (5GY 6/1) SHALE fragments	Till	\		\	0.0	1415
76	39	78	25-46-50/0.4	1.4/1.0	>96	0-1.0 SAA, trace fine sand in matrix		\		\	0.0	1515
78	40	80	57-46-54-50	2.0/1.6	100	0-1.6 SAA		\		\	0.0	1600
						6" Steel casing set 0-78' bgs		\		\		12/15/2011
80	41	82	56-65-67-76	2.0/1.0	132	0-1.0 SAA		\		\	0.0	12/18/2011
82	42	84	55-60	1.0/1.0	115	0-1.0 SAA		\		\	0.0	

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING SB915-WB-07R
Client: Honeywell	**Sampler: 2" Split Spoon**	**Location: SB915**
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer: 140-lb drop**	**Start Date: 10/19/2011**
File No.: 1163/48127	**Fall: 30"**	**End Date: 12/20/2011**
Boring Company: Parratt-Wolff		**Screen = \ Grout**
Foreman: Rick Navatka, Doug Richmond		**Riser Sand Pack**
OBG Geologist: Jonathan Bone		**Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
84	43	86	54-60-68-85	2.0/1.0	125	0-1.0 SAA		\ \	0.0	
86	44	88	70/0.3	0.3/0.3	>70	0-0.3 SAA		\ \	0.0	
88	45	90	65-60/0.4	0.9/0.9	>125	0-0.9 SAA		\ \	0.0	
90	46	92	54-50/0.3	0.8/0.8	>104	0-0.8 SAA		\ \	0.0	
92	47	94	50/0.2	0.2/0.2	>50	0-0.2 SAA		\ \	0.0	
94	48	96	50/0.2	0.2/0.2	>50	0-0.2 SAA	96'	\ \	0.0	
96	49	98	50/0.2	0.2/0.2	>50	0-0.2 Hard, wet, greenish gray (5GY 6/1) highly weathered SHALE	Bedrock	\ \	0.0	
98	50	100	100/0.3	0.3/0.3	>100	0-0.3 SAA			0.0	12/19/2011
100	51	102	100/0.3	0.3/0.3	>100	0-0.3 SAA			0.0	
						4" Steel Casing set 0-100'		=		
						Rock core 100-113' bgs		=		
						See Core Log for details		=		
								=		
						Well Construction Details (bgs)		=		
						Screen: 103-113 ft				
						Riser: +2.5-103 ft				
						#0 Sand: 101-113 ft				
						#00 Sand: 98-101 ft				
						Grout: 0-98 ft				

O'BRIEN & GERE ENGINEERS, INC.
333 West Washington Street
Syracuse, New York 13202

CORE LOG

12/20/2011

Hole No.: SB915-WB-07R | Job No.: 48127
Sheet 1 of 1 | Project: SB915 Closure

Formation / Member / Unit	Run No. / Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	1		101.0 102.0 103.0 104.0 105.0	SHALE; greenish gray (5GY 6/1) fine grained, extremely weathered, soft silt and clay with some medium to large gravel sized rock fragments. Semi-competant rock at 101.8'-109.5' but highly fractured.	3.85	95%	0%
	2		106.0 107.0 108.0 109.0 110.0	SHALE; Greenish gray (5GY 6/1) fine grained, thinly laminated, highly weathered, more competant than 101-105'. Highly fractured from 105-106' both vertically and horizontally. Horizontal fractures at 106.2, 106.3, highly fractured 106.6-107.2', horizontal fractures at 107.4, 107.6 107.8, 108, 108.1, 108.6, 108.95, 109.2, 109.5. Moderate yellowish brown (10YR 5/4) staining in most fractures along with clay deposits.	4.8	96%	15%
	3		111.0 112.0 113.0	SHALE; greenish gray (5GY 6/1) fine grain, thinly laminated, highly fractured 110.0-110.5' horizontal fractures at 110.8, 110.9, turns to medium gray (N5) at110.0 and highly weathered and fractured throughout to 113.0'	2.85	94%	0%

SUBSURFACE LOG WB-7U

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
							Note: WB-7U was installed in a borehole located within approximately 20 feet of WB-7La. The geology shown on this log represents what was encountered in WB-7La and no samples were taken for this boring.
0							Black silty CINDERS, little coarse to fine sand, FILL.
5							
10							Red to brown CLAY, moist. Occasional lenses of black organic silt.
15							Red to red-brown silty CLAY to clay with little silt. Laminated occasionally with fine silty sand partings.
20							Brown CLAY interbedded with silty fine sand.
25							Brown silty fine SAND interbedded with brown CLAY - VARVES grading downward to:
30							
35							Brown silty fine SAND, grading downward to:
40							Brown to gray-brown fine SAND, little silt.
45							

SURFACE ELEVATION 377.5
DATE STARTED 11/10/87
DATE COMPLETED 11/10/87
CLASSIFIED BY CMT

PROJECT Allied-Signal Inc.
SHEET 1 OF 2
NO. WB-7U

BLASLAND & BOUCK ENGINEERS, P.C.

SUBSURFACE LOG

WB-7U (CONT'D.)

DEPTH	SAMPLES	SAMPLE NO.	RECOVERY INCHES	N	WELL COLUMN	GEOLOGIC COLUMN	DESCRIPTION
45							Brown coarse to fine SAND, little fine gravel, trace silt.
50							
55							Bottom of boring 53.3'.

SURFACE ELEVATION 377.5

DATE STARTED 11/10/87

DATE COMPLETED 11/10/87

CLASSIFIED BY GMT

PROJECT Allied-Signal Inc.

SHEET 2 OF 2

NO. WB-7U

BLASLAND & BOUCK ENGINEERS, P.C.

Date Start/Finish: 10-27-97 / 10-27-97
Drilling Company: Parratt Wolff, Inc.
Driller's Name: Lee Penrod
Drilling Method: Hollow Stem Auger

Auger Size: 4.25 in.
Rig Type: Ingersoll Rand A-300
Spoon Size: 2 in.

Northing: 594699.393
Easting: 1121645.049
Well Casing: 378.50 feet

Borehole Depth: 20.0 ft.
Ground Surface: 375.4 feet

Geologist: Scott Powlin

Well No: WB-9U

Client:
AlliedSignal, Inc.

Location:
AlliedSignal
Solvay, New York

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation 375.4 ft.										GROUND SURFACE	Locking expandable well cap.
	375	(0-2)		3 3 8 8	11	L5	0.0			Brown fine SAND and SILT, rootlets, moist, hard (TOPSOIL).	4" steel protective casing (3.5'ags to 1.0' bgs).
										Black CINDERS, loose, dry.	Cement surface pad.
		(2-4)		6 6 6 6	12	L2	0.0			Brown fine SAND and SILT, some orange mottling, damp, stiff. (SM)	Neat Portland Cement/Bentonite grout (1.0' to 7.0' bgs)
5	370	(4-6)		3 3 5 8	8	1.0	0.0				
		(6-8)		5 6 9 9	15	L2	0.0			Some wood fragments. Becoming gray.	Hydrated bentonite seal (7.0' to 8.0' bgs)
		(8-10)		3 3 7 9	10	2.0	0.0			Gray SILT and CLAY, trace very fine sand and silt, firm. (ML)	2-in diameter Sch. 40 PVC well casing (3.1' ags to 10.0' bgs)
10	365	(10-12)		3 9 11 10	20	2.0	0.0			Brown to black very fine SAND and SILT, damp, hard. (SM)	
		(12-14)		6 6 6 6	14	0.4	0.0			Some gray fine sand.	2-in diameter Sch. 40 PVC 0.01-inch slot well screen (10.0' to 20.0' bgs)
		(14-16)		2 1	8	2.0	3.5			Gray very fine SAND and SILT, moist, firm, some shell fragments. (SM)	Grade #0 Unimin silica sand pack (8.0' to 20.0' bgs)
15											

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks:

(ML) denotes USCS code. ags = Above Ground Surface. bgs = Below Ground Surface. NA - Not Available.

Saturated Zones

Date / Time	Elevation	Depth
5/27/98	363.19	12.21 ▼
11/18/98	362.09	13.31 ▼

Client:
AlliedSignal, Inc.

Location:
AlliedSignal
Solvay, New York

Well No: WB-9U

Total Depth = 20.0 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
	360	(14-16)		2 2	8	2.0	3.5			Same as above.	Grade #0 Unimum silica sand pack (8.0' to 20.0' bgs)
		(16-18)		2 1 1 1	2	1.5	0.5			Gray very fine Sand, trace silt, wet, loose. (SM)	
		(18-20)		7 4 4 6	8	1.2	3.0			Some wood fragments, shells.	2-in diameter Sch. 40 PVC 0.01-inch slot well screen (10.0 to 20.5' bgs')
20	355									Gray fine to coarse GRAVEL, some fine to coarse sand, trace silt, wet, loose. (GP)	
										Fine to coarse SAND, trace silt, wet, loose. (SP)	
										Boring terminated at 20.0' bgs.	
25	350										
30	345										
35											

BBL
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engineers & scientists

Remarks:

(ML) denotes USCS code. ags = Above Ground Surface. bgs = Below Ground Surface. NA - Not Available.

Saturated Zones

Date / Time	Elevation	Depth
5/27/98	363.19	12.21
11/18/98	362.09	13.31

Date Start/Finish: 10-27-97 / 10-27-97
Drilling Company: Parratt Wolff, Inc.
Driller's Name: Lee Penrod
Drilling Method: Hollow Stem Auger

Auger Size: 4.25 in.
Rig Type: Ingersoll Rand A-300
Spoon Size: 2 in.

Northing: 593425.685
Easting: 1121271.984
Well Casing: 379.34 feet

Borehole Depth: 18.0 ft.
Ground Surface: 376.5 feet

Geologist: Scott Powlin

Well No: WB-10U

Client:
AlliedSignal, Inc.

Location:
AlliedSignal
Solvay, New York

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
gs elevation 376.5 ft.										GROUND SURFACE	Locking expandable well cap.
											4" steel protective casing (3.5' ags to 1.0' bgs).
	375	(0-2)		6 10 18 18	28	1.0	4.1			CINDERS in top 2" Light brown fine to coarse SAND, gravel size brick fragments, loose, dry. (SP)	Cement pad (0' to 1'bgs).
		(2-4)		7 6 30 18	36	1.1	3.6			Black CINDERS, loose, dry. Brown fine to coarse SAND, some coarse gravel, loose, dry. (SP)	Neat Portland Cement/Bentonite grout (1.0' to 2.0' bgs). Hydrated bentonite seal (2.0' to 3.0' bgs).
5		(4-6)		16 24 26 32	50	1.2	3.4				2-in diameter Sch. 40 PVC well casing (3.1' ags to 5'bgs).
	370	(6-8)		34 17 11 4	28	1.4	6.2				
		(8-10)		2 3 5 6	8	0.8	3.1			Gray fine SAND and SILT, trace clay, damp, firm. (SM)	
10		(10-12)		8 6 4 4	10	NA	NA				
	365	(12-14)		5 5 6 5	11	NA	NA			No recovery (10'-14' bgs). Trace shell fragments on spoons.	2-in diameter Sch. 40 PVC 0.01-inch slot well screen (5.0' to 15.0' bgs)
15		(14-16)		2 2	4	2.0	2.9			Fine SAND and SILT, damp, firm. (SM) 3" layer of black PEAT.	Grade #0 Unimum silica sand pack (3.0' to 18.0' bgs)

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks:

(ML) denotes USCS code. ags = Above Ground Surface. bgs = Below Ground Surface. NA = Not Available.

Saturated Zones

Date / Time	Elevation	Depth
5/27/98	368.74	7.76
11/18/97	367.26	9.24

Client:
AlliedSignal, Inc.

Location:
AlliedSignal
Solvay, New York

Well No: WB-10U

Total Depth = 18.0 ft.

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Blows/6 In.	N	Recovery (ft.)	Headspace	Geotechnical Test	Geologic Column	Stratigraphic Description	Well Construction
		(14-16)		2 3	4	2.0	2.9			Brown fine SAND, some silt, shell fragments, moist, firm. (SM)	Grade #0 Unimum silica sand pack (3.0' to 18.0' bgs)
	360	(16-18)		4 4 5 5	9	2.0	2.7			Becoming wet, loose. Trace clay, wood fragments.	
20										**Boring terminated at 18.0' bgs.**	
	355										
25											
	350										
30											
	345										
35											

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks:

(ML) denotes USCS code. ags = Above Ground Surface. bgs = Below Ground Surface. NA - Not Available.

Saturated Zones

Date / Time	Elevation	Depth
5/27/98	368.74	7.76

DATE STARTED: 10/20/92
DATE COMPLETED 10/20/92

WB-15B (WB-15S)

SURFACE ELEVATION: ~ 429' NGVD
PROJECT: Allied Waste Beds
PROJECT NO.: 131.32

CLASSIFIED BY: RGP
LOCATION: Syracuse, NY
PAGE: 1 of 2

SUBSURFACE LOG

DEPTH (FT)	SAMPLES	SAMPLE NO.	SOIL DATA: RECOVERY (FT)	SOIL DATA: BLOWS/6 IN.	SOIL DATA: PID HEADSPACE (ppm)	WELL COLUMN	GEOLOGIC COLUMN	SOIL CLASSIFICATION
0								Allied waste material, alternating (1/8-inch thick) layers of white, gray and black SILT-like material.
25								Bottom of borehole at 25.0 feet.

	DATE STARTED: 10/20/92	**WB-15B (WB-15S)**	
	DATE COMPLETED 10/20/92		
SURFACE ELEVATION: ~ 429' NGVD	PROJECT: Allied Waste Beds	PROJECT NO.: 131.32	
CLASSIFIED BY: RGP	LOCATION: Syracuse, NY	PAGE: 2 of 2	

SUBSURFACE LOG

DEPTH (FT)	SAMPLES	SAMPLE NO.	SOIL DATA: RECOVERY (FT)	SOIL DATA: BLOWS/6 IN.	SOIL DATA: PID HEADSPACE (ppm)	WELL COLUMN	GEOLOGIC COLUMN	SOIL CLASSIFICATION
25								

NOTES:

DRILL RIG: Diedrich D-50.
Borehole advanced with 4 1/4-inch I.D. HSA.
No samples were obtained.
Water level measured after well completion.

WELL CONSTRUCTION DETAILS

2-inch diameter SCH 40 PVC, 0.010-inch slot screen from 25.0' to 15.0'.
2-inch diameter SCH 40 PVC riser from 15.0 to +2.0.
Grade 0 Morie sand pack from 15.0' to 12.0'.
Hydrated bentonite seal from 12.0' to 10.0'.
Cement/bentonite grout from 10.0' to 0.5'.
4-inch diameter steel casing with locking cap from 2.5' to +2.5'.

DEPTH (FT): 25, 30, 35, 40, 45, 50, 55

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING WB18-MW-14BR
Client: Honeywell	Sampler: 2" Split Spoon	Location:
Proj. Loc: Syracuse, NY	Hammer: 140-lb drop	Start Date: 3/20/2007
File No.: 1163/39642	Fall: 30"	End Date: 3/30/2007
Boring Company: Parratt-Wolff Foreman: Mark Eaves OBG Geologist: Robert Trent/Jason Williams		Screen = \ Grout Riser Sand Pack Bentonite

Depth Below Grade	Sample No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing UV (Y/N)
0	1	2	8-13-17-6	2/.5	30	Moderate Yellowish Brown(10YR5/4)m/f/c GRAVEL and f/m sand some silt, fill, wet, dense. At bottom Black(1N1) f/m/c sand layer (cinder-like)	Fill 2	\		\	0	NA
2	2	4	8-7-9-7	2/1.5	16	Dark Yellowish Brown(10YR 4/2) CLAY little silt, with many, medium, distinct Moderete Yellowish Brown(10YR5/4) patches of clay trace organics, moist, hard.	Clay/Silt	\		\	0	NA
4	3	6	2-3-5-7	2/1.75	8	Moderate Yellowish Brown(10YR5/4) CLAY trace silt, with many, distinct, coarse,Light Brownish Gray(5YR6/1) and few,medium, distinct, Medium Light Gray(6N6) clay, stiff		\		\	0	NA
6	4	8	1-5-7-7	2/2.0	12	SAA		\		\	0	NA
8	5	10	3-4-6-6	2/2.0	10	Moderate Yellowish Brown(10YR5/4) CLAY trace silt, with many, distinct, coarse,Light Brownish Gray(5YR6/1) and few, medium, distinct, Medium Light Gray(6N6) clay for 1'. Next 1' silt and clay with 1" silt bands throughout, damp to wet at 9.5'		\		\	0	NA
10	6	12	2-3-3-4	2/1.0	6	Moderate Yellowish Brown(10YR5/4) SILT, some to little clay, wet, stiff.	12	\		\	0	NA
12	7	14	4-4-5-5	2/2.0	9	Moderate Yellowish Brown(10YR5/4) SILT, some fine sand, little to trace clay, wet, firm.	Silt/ f Sand	\		\	0	NA
14	8	16	1-2-2-2	2/1.0	4	Pale yellowish brown (10YR 6/2), SILT, some fine sand, trace clay, wet.		\		\	0	NA
16	9	18	1-2-1-2	2/1.0	3	SAA		\		\	0	NA
18	10	20	WOH-WOH-WOH-WOH	2/1.75	WOH	SAA		\		\	0	NA
20	11	22	WOH-WOH-WOH-WOH	2/0.3	WOH	SAA, F. SAND & SILT, wet, Pale brown (5YR5/2).		\		\	0	NA
22	12	24	WOH-WOH-WOH-WOH	2/0.5	WOH	SAA, F/M SAND & SILT.	Silt/ f/m Sand	\		\	0	NA
24	13	26	WOR-5-5-7	2/0.5	5	SAA		\		\	0	NA
26	14	28	8-10-10-11	2/1.1	20	SAA, F/M SAND & SILT, trace coarse sand.		\		\	0	NA
28	15	30	7-8-9-10	2/1.0	18	SAA		\		\	0	NA
30	16	32	6-8-6-9	2/1.5	14	SAA, some coarse sand.		\		\	0	NA
32	17	34	10-11-14-17	2/2.0	28	SAA		\		\	0	NA
34	18	36	9-6-8-14	2/1.5	14	SAA, with coarse sand.		\		\	0	NA
36	19	38	10-6-6-5	2/2.0	12	SAA, layer w/ some f.sand/silt at 37-37.5'.		\		\	0	NA
38	20	40	WOH-WOH-WOH-8	2/2.0	<1	0.5'-SAA, C. SAND. 1.0'-SILT & FINE SAND. 0.5' C. SAND.		\		\	0	NA
40	21	42	4-1-2-2	2/0	3	Pale brown (5YR 5/2), wet, soft, F. SAND & SILT, some clay from 41.5-41.8'.	43.5	\		\	0	NA
42	22	44	11-7-4-6	2/2.0	11	Pale brown (5YR 5/2), wet, firm, SILT & FINE SAND, some to trace clay, bottom 6"-some medium sand, no cley.	f/m/c Sand and Silt	\		\	0	NA
44	23	46	5-3-2-5	2/1.7	5	1.2-SAA top 1.2'.0.5'-SAA, F/M SAND end SILT.		\		\	0	NA
46	24	48	3-4-5-5	2/2.0	9	SAA, F/M SAND end SILT.		\		\	0	NA
48	25	50	3-2-4-7	2/2.0	6	SAA		\		\	0	NA
50	26	52	6-5-6-5	2/1.0	11	Pale brown, wet, medium dense, F/M/C SAND & SILT.		\		\	0	NA

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING WB18-MW-14BR
Client: Honeywell	Sampler: 2" Split Spoon	Location:
Proj. Loc: Syracuse, NY	Hammer: 140-lb drop	Start Date: 3/20/2007
File No.: 1163/39642	Fall: 30"	End Date: 3/30/2007
Boring Company: Parratt-Wolff Foreman: Mark Eaves OBG Geologist: Robert Trent/Jason Williams		Screen = \ Grout Riser Sand Pack Bentonite

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing UV (Y/N)
52	27	54	9-12-8-12	2/2.0	20	SAA		\		\	NA	NA
54	28	56	10-5-3-5	2/2.0	8	SAA		\		\	0.0	NA
56	NA	58	2-4-4-7	2/1.75	8	SAA	59	\		\	NA	NA
58	29	60	6-8-11-14	2/2.0	19	SAA, very fine gravel (subangular) in bottom 1" (till).	Till	\		\	0.0	NA
60	NA	62	15-18-29-36	2/.3	47	Moderate yellowish brown, dry, extremely dense, F/C GRAVEL (sub-rounded) & CLAY.		\		\	NA	NA
62	30	64	24-47-30-21	2/.3	77	SAA		\		\	0.0	NA
64	-	66	19-25-33-30	2/.5	58	SAA		\		\	NA	NA
66	-	68	24-27-18-31	2/1.5	45	SAA		\		\	NA	NA
68	31	70	48-46-52/0.4	1.4/1.0	80+	0.5' SAA, extremely hard, 0.5' Dark Yellowish Brown(10YR4/2) w trace Greenish/Reddish Gray, saturated, extremely dense, f/m gravel (sub rounded), silt and clay(matrix) trace sand		\		\	0.0	N
70	32	72	58-50/.03	0.8/0.8	100+	SAA little c gravel (gray sub rounded limestone) 0.2' Greenish Gray(5GY6/1) w trace Reddish Brown, wet, extremely hard, SILT and CLAY, little f/m gravel fragments, (weathered till)		\		\	0.7	N
72	33	74	55-50/0.2	0.7/0.7	105+	0.4' SAA, 0.3' Grayish/Brownish Red, wet, extremely hard, CLAY with some silt (matrix), trace f gray gravel (sub rounded) trace sand, extremely cohesive, plastic		\		\	0.8	N
74	34	76	95-52/0.3	0.8/0.8	100+	SAA, trace f/m gravel embedded		\		\	1.5	N
76	35	78	34-50/0.3	0.8/0.8	100+	SAA, slightly more gravel embedded		\		\	0.8	N
78	36	80	67-50/0.3	0.8/0.8	100+	SAA		\		\	3.0	N
80	37	82	41-50/0.2	0.7/0.7	100+	SAA		\		\	6.0	N
82	38	84	79-50/0.2	0.7/0.7	100+	SAA, trace pieces of c gray gravel, trace yellow mineral in nose		\		\	1.4	N
84	NA	86	NA	NA	NA	No Sample		\		\	NA	NA
86	39	88	100/0.4	0.4/0.4	100+	SAA, large piece of gray limestone in nose		\		\	10.6	N
88	NA	90	NA	NA	NA	SAA		\		\	3.6	N
90	40	92	100/0.2	0.2/0.2	100+	SAA, harder		\		\	3.1	N
92	NA	94	NA	NA	NA	No Sample					NA	NA
94	41	96	100/0.4	0.4/0.4	100+	0.3' SAA, trace f gravel, trace embedded sand grains, trace green shale fragments. 0.1' Greenish Gray(5G6/1) damp, extremely hard, fissle, clayey, weathered shale	94				3.1	N
96	NA	98	NA	NA	NA	No Sample	Bed Rock				NA	NA
98	42	100	100/0.5	0.5/0.5	100+	SAA, Greenish Gray(5GY6/1), moist, fissile, shale-like bedding					12.9	N
100		105				5" Casing set at 18.5'. 4" Casing set at 99'.			=			
105		110				Monitoring well was installed screen 130' to 100', sand 130' to 95', sand choke 95' to 92', grout 92' to grade.			=			
110		115							=			
115		120							=			
120		130							=			

O'BRIEN & GERE ENGINEERS, INC.
5000 Brittonfield Parkway
East Syracuse, New York 13057

CORE LOG

Hole No.: WB18-MW-14BR | Job No.: 1163\39642
Sheet 1 of 1 | Project: WB18 RI

Formation Member Unit	Run No. Depth	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
	R1/100	27 32 30 33 35	100	Shale, Medium dark gray(N4), fine grained, thinly laminated, with horizontal and vertical fractures from 100' to 101', horizontal fractures throughout, varying amounts of gypsum throughout fractures from healed to slightly healed, 102' color change to Medium Blueish Gray(5B5/1), from 100 to 100.5' some clay infilling of fractures, gypsum, weathered	4.5	90%	0%
	R2/105	22 30 25 33 30	105	Shale, Medium Blueish Gray(5B5/1), fine grained, thinly laminated, horizontal fractures throughout, varying amounts of gypsum throughout fractures from healed to slightly healed, gypsum, weathered	4.5	90%	0%
	R3/110	20 25 23 29 31	110	Shale, Medium dark gray(N4), fine grained, thinly laminated, horizontal fractures throughout, varying amounts of gypsum throughout fractures from healed to slightly healed, gypsum, weathered	3	60%	6%
	R4/115	20 25 28 32 35	115	Shale, Medium dark gray(N4), fine grained, thinly laminated, horizontal fractures throughout, at 119.5' color change to Blueish Gray(5B5/1), varying amounts of gypsum throughout fractures from healed to slightly healed, gypsum, weathered	4.5	90%	0%
	R5/120	25 20 27 30 35	120	Shale, Medium Blueish Gray(5B5/1), fine grained, thinly laminated, at 121-122' vertical fracture healed with gypsum, at 123' color change to Medium Dark gray, with horizontal fractures throughout, varying amounts of gypsum throughout fractures from healed to slightly healed, gypsum	4.5	90%	22%
	R6/125	30 35 38 35 40	125 130	Shale, Medium Blueish Gray(5B5/1), fine grained, thinly laminated, with horizontal fractures throughout, varying amounts of gypsum throughout fractures from healed to slightly healed, gypsum	4.7	94%	32%

End of Core Run. Packer test performed on full 30' coring.
Monitoring well was installed screen 130' to 100', sand 130' to 95', sand choke 95' to 92', grout 92' to grade.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING WB18-MW-14D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page 1 of 2**
Proj. Loc: Wastebeds 1-8 Geddes, NY	**Hammer: 140 lb Drop**	**Location:**
File No.:	**Fall: 30"**	**Start Date:** 1/18/2006 **End Date:** 1/25/2006
Boring Company: Parratt-Wolff **Foreman: Jake Donahue** **OBG Geologist: Robert Trent**		**Screen** = \ **Grout** **Riser** **Sand Pack** **Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
0	1	2	8	2/.5'	30	Moderate Yellowish Brown(10YR5/4)	Fill	\		\		1/18/2006
			13			m/f/c GRAVEL and f/m sand some silt, fill		\		\	0	1006
			17			wet, dense. At bottom Black(1N1) f/m/c		\		\		
			6			sand layer (cinders?)		\		\		
								\		\		
2	2	4	8	2/1.5'	16	Dark Yellowish Brown(10YR 4/2) CLAY little		\		\		
			7			silt, with many, medium, distinct Moderate	Clay/Silt	\		\	0	1015
			9			Yellowish Brown(10YR5/4) patches of clay		\		\		
			7			trace organics, moist, hard.		\		\		
								\		\		
4	3	6	2	2/1.75'	8	Moderate Yellowish Brown(10YR5/4) CLAY		\		\		
			3			trace silt,, with many, distinct, coarse,		\		\	0	1040
			5			Light Brownish Gray(5YR6/1) and few,		\		\		
			7			medium, distinct, Medium Light Gray(6N6)		\		\		
						clay, stiff		\		\		
								\		\		
6	4	8	1	2/2'	12	SAA.		\		\		
			5					\		\	0	1050
			7					\		\		
			7					\		\		
								\		\		
								\		\		
								\		\		
8	5	10	3	2/2'	10	Moderate Yellowish Brown(10YR5/4) CLAY		\		\		
			4			trace silt, with many, distinct, coarse,		\		\	0	1105
			6			Light Brownish Gray(5YR6/1) and few,		\		\		
			6			medium, distinct, Medium Light Gray(6N6)		\		\		
						clay for 1'. Next 1' silt and clay with 1" silt		\		\		
						bands throughout, damp to wet at 9.5'		\		\		
								\		\	0	1135
10	6	12	2	2/1'	6	Moderate Yellowish Brown(10YR5/4)		\		\		
			3			SILT, some to little clay, wet, stiff.		\		\		
			3					\		\		
			4			Set 4" Steel Casing at 10'		\		\		
								\		\		
12	7	14	4	2/2'	9	Moderate Yellowish Brown(10YR5/4)	Silt/f. sand,	\		\	0	11:50
			4			SILT, some fine sand, little to trace clay, wet	trace clay	\		\		
			5			firm.		\		\		
			5					\		\		
								\		\		1/19/2006
14	8	16	1-2	2.0/1.0	4	Pale yellowish brown (10YR 6/2), SILT, some		\		\	0	8:30
			2-2			fine sand, trace clay, wet.		\		\		
								\		\		
16	9	18	1-2	2.0/1.0	3	SAA.		\		\	0	8:40
			1-2					\		\		
18	10	20	1-1	2.0/1.75	2	SAA.		\		\	0	9:11
			1-1					\		\		
20	11	22	WOH	2.0/1.75	<1	SAA, F. SAND & SILT, wet, Pale brown (5YR	silt/f. sand	\		\	0	14:10
			WOH			5/2).		\		\		
								\		\		

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING WB18-MW-14D
Client: Honeywell	**Sampler: 2" Split Spoon**	**Page 2 of 2**
Proj. Loc: Wastebeds 1-8	**Hammer: 140 lb Drop**	**Location:**
Geddes, NY		**Start Date:** 1/18/2006
File No.:	**Fall: 30"**	**End Date:** 1/25/2006
Boring Company: Parratt-Wolff		**Screen** = \ **Grout**
Foreman: Jake Donahue		**Riser** **Sand Pack**
OBG Geologist: Robert Trent		**Bentonite**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
22	12	24	1-1	2.0/2.0	2	SAA, F/M SAND & SILT.	f/m sand/silt	\ \ \	0	14:15
			1-2					\ \ \		
24	13	26	WOR	2.0/0.5	<1	SAA.		\ \ \	0	14:30
			WOH					\ \ \		
26	14	28	2-3	2.0/2.0	6	SAA, F/M SAND & SILT, trace coarse sand.		\ \ \	0	14:35
			3-3					\ \ \		
28	15	30	WOH	2.0/1.0	2	SAA.		\ \ \	0	14:50
			2-2					\ \ \		
30	16	32	3-3	2.0/2.0	6	SAA, some coarse sand.	some	\ \ \	0	15:00
			3-5				c. sand	\ \ \		1/24/2006
32	17	34	12-14	2.0/1.75	28	SAA.		\ \ \	0	13:05
			14-15					\ \ \		
34	18	36	9-6	2.0/1.5	14	SAA, with coarse sand.		\ \ \	0	13:20
			8-14					\ \ \		
36	19	38	10-6	2.0/2.0	12	SAA, layer w/ some f.sand/silt at 37-37.5'.		\ \ \	0	13:30
			6-5					\ \ \		
38	20	40	WOH	2.0/2.0	<1	0.5'-SAA, C. SAND.		\ \ \	0	13:50
			W-8			1.0'-SILT & FINE SAND.		\ \ \		
						0.5'-C. SAND.		\ \ \		
							f. sand/silt,	\ \ \		
40	21	42	6-WOR	2.0/2.0	4	Pale brown (5YR 5/2), wet, soft, F. SAND &	some clay	\ \ \	0	14:10
			4-4			SILT, some clay from 41.5-41.8'.		\ \ \		
								\ \ \		
42	22	44	3-4	2.0/1.7	6	Pale brown (5YR 5/2), wet, firm, SILT & FINE		\ \ \	0	14:20
			2-4			SAND, some to trace clay, bottom 6"-some		\ \ \		
						medium sand, no clay.	43.5'	\ \ \		
								\ \ \		
44	23	46	5-3	2.0/1.7	5	1.2-SAA top 1.2'.	f/m/c	\ \ \	0	15:10
			2-5			0.5'-SAA, F/M SAND and SILT.	sand & silt	\ \ \		
								\ \ \		
46	24	48	3-4	2.0/2.0	9	SAA, F/M SAND and SILT.			0	15:20
			5-5							
48	25	50	3-2	2.0/2.0	6	SAA.			0	15:35
			4-7					50'		1/25/2006
50	26	52	W-9	2.0/1.0	23	Pale brown, wet, medium dense, F/M/C		= = =	0	8:35
			14-14			SAND & SILT.		= = =		
								= = =		
52	27	54	5-6	2.0/1.25	14	SAA.		= = =	0	8:45
			8-9					= = =		
54	28	56	4-5	2.0/1.75	12	SAA.		= = =	0	9:15
			7-9					= = =		
56	29	58	2-4	2.0/1.75	8	SAA.		= = =	0	9:25
			4-7					= = =		
58	30	60	4-5	2.0/1.5	13	SAA, very fine gravel (subangular) in bottom	59'	= = =	0	9:35
			8-10			1" (till).	Till	= = =		
								= = =		
60	31	62	23-29	2.0/1.0	53	Moderate yellowish brown, dry, extremely	Collected	60'	NA	10:22
			24-48			dense, F/C GRAVEL (sub-rounded) & CLAY.	Sample			
						62'	(58-62').			
						E.O.B.				

WB18-MW-14S: Well set at 20', screen from 20' to 10', sandpack from 20' to 8', bentonite seal from 8' to grade.

WB18-MW-14I: Well set at 32', screen from 32' to 22', sandpack from 32' to 20', bentonite seal from 20' to 18', grout to grade.

WB18-MW-14D: Well set at 60', screen from 60' to 50', sandpack from 60' to 48', bentonite seal from 48' to 46', grout to grade.

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING WB915-WB-09L
Client: Honeywell **Proj. Loc: Settling Basins 9-15 Camillus, NY** **File No.: 1163/48127**	**Sampler: 2" Split Spoon** **Hammer: 140-lb drop** **Fall: 30"**	**Location: SB915** **Start Date: 2/8/2012** **End Date: 2/8/2012**
Boring Company: Parratt-Wolff **Foreman: Joe Percy** **OBG Geologist: Rob Hornung**		**Screen = \ Grout** **Riser Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	PID (ppm)	Field Testing: Time
0	1	2	6-9-12-13	2.0/1.5	21	0.0'-0.6', dark yellowish brown (10YR 4/2) organic rich SILT, trace fine sand, trace sub-angular to sub-rounded gravel, 0.6'-1.5', olive black (5Y 2/1), fine SAND, little sub-angular gravel, dry, medium dense	Organic Rich Silt 0.6' Fill	\ \	0.0	1003
2	2	4	5-7-11-15	2.0/1.5	18	0.0'-0.5', olive black (5Y 2/1) fine SAND, trace sub-angular gravel, 0.5'-1.5', moderate yellowish brown (10YR 5/4) SILT, little clay, moist, medium dense, oxide staining	2.5' Silt with Clay	\ \	0.0	1012
4	3	6	3-4-6-6	2.0/2.0	10	0.0'-2.0', moderate yellowish brown (10YR 5/4) and light brown (5YR 5/6) SILT, trace clay, moist, medium dense, oxide staining		\ \	0.0	1022
6	4	8	5-7-7-8	2.0/1.5	14	0.0'-1.5', dark yellowish brown (10YR 4/2), and dusky yellowish brown (10R 2/2) SILT, little clay, moist, medium dense, oxide staining		\ \	0.0	1029
8	5	10	2-4-4-4	2.0/1.7	8	0.0'-2.0', dark yellowish brown (10YR 4/2) SILT, little clay, moist, medium dense		\ \	0.0	1118
10	6	12	2-3-5-8	2.0/2.0	8	0.0'-2.0', dusky yellowish brown (10YR 2/2) and moderate yellowish brown (10YR 5/4) SILT, trace clay, moist, medium dense		\ \	0.0	1126
12	7	14	15-30-16-14	2.0/2.0	46	0.0'-2.0', dark yellowish brown (10YR 4/2) and moderate yellowish brown (10YR 5/4) SILT, trace fine sand, trace clay, saturated, very dense	14' Marl	\ \	0.0	1133
14	8	16	1-2-2-2	2.0/2.0	4	0.0'-2.0', pale brown (5YR 5/2), light olive gray (5Y 6/1), greenish gray (5GY 6/1), and light brown (5YR 5/6) SILT, trace fine to medium sand, trace clay, gastropod shell fragments and woody debris		\ \	0.0	1145
16	9	18	2-3-5-11	2.0/2.0	8	0.0'-2.0', dark yellowish brown (10YR 4/2) and olive gray (5Y 4/1) SILT, little clay, trace fine sand, trace sub-rounded gravel, gastropod fragments, saturated, soft		\ \	0.0	1150
18	10	20	2-14-15-15	2.0/1.8	29	0.0'-1.8', light olive gray (5Y 6/1) and medium gray, fine to medium SAND, some sub-angular to sub-rounded gravel, trace silt, wet, dense	18' Sand and Gravel	\ \	0.0	1156
20	11	22	10-22-13-5	2.0/1.7	35	0.0'-1.7', light olive gray (5Y 6/1) and medium gray, fine to medium SAND, some sub-angular to angular gravel, trace silt, wet, dense		\ \	0.0	1306
22	12	24	4-7-7-5	2.0/1.6	14	0.0'-1.3', dark yellowish brown (10YR 4/2) and pale brown (5YR 5/2), fine-medium-coarse SAND, little sub-angular to sub-rounded gravel, trace silt, 1.3'-1.6', SILT, trace fine sand, saturated, soft	23.3' Silt	\ \	0.0	1309

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING WB915-WB-09L
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/8/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/8/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** \ **Sand Pack** \ **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed			Field Testing PID (ppm)	Field Testing Time
24	13	26	2-2-3-2	2.0/1.8	5	0.0'-1.8', pale brown (5YR 5/2) and pale yellowish brown (10YR 6/2) SILT, trace fine sand, saturated, soft		\		\	0.0	1317
26	14	28	4-2-3-3	2.0/1.7	5	0.0'-1.7', SAA		\		\	0.0	1322
28	15	30	4-1-2-2	2.0/1.7	3	0.0'-1.7', SAA, trace clay		\		\	0.0	1326
30	16	32	3-2-2-2	2.0/2.0	4	0.0'-2.0', SAA		\		\	0.0	1331
32	17	34	5-4-4-9	2.0/2.0	8	0.0'-2.0', SAA, saturated, medium dense		\		\	0.0	1335
34	18	36	4-4-2-5	2.0/1.7	6	0.0'-1.7', SAA, saturated, soft	36'	\		\	0.0	1342
36	19	38	6-5-6-10	2.0/1.8	11	0.0'-1.8', pale brown (5YR 5/2) fine SAND, trace silt, saturated, loose	Sand	\		\	0.0	1347
38	20	40	5-4-5-5	2.0/2.0	9	0.0'-2.0', SAA, saturated, loose to medium dense	40'	\		\	0.0	1352
40	21	42	3-3-5-5	2.0/1.3	8	0.0'-1.3', pale brown (5YR 5/2) SILT, trace fine sand, trace clay, saturated, loose	Silt	\		\	0.0	1358
42	22	44	3-3-3-5	2.0/2.0	6	0.0'-2.0', SAA, saturated, loose	44'	\		\	0.0	1403
44	23	46	6-5-4-3	2.0/1.3	9	0.0'-1.3', pale brown (5YR 5/2) and pale yellowish brown (10YR 6/2) CLAY and SILT, saturated, very soft	Clay and Silt	\		\	0.0	1411
46	24	48	2-2-3-2	2.0/1.5	5	0.0'-1.5', SAA, saturated, soft	48'	\		\	0.0	1418
48	25	50	WH-1.0-5-7	2.0/0.8	5	0.0'-0.8', moderate reddish brown (10R 4/6) and pale brown (5YR 5/2) SILT, trace fine to very fine sand, saturated, medium dense, varved	Silt with Sand	\		\	0.0	1426
50	26	52	4-4-5-5	2.0/1.4	9	0.0'-1.4', SAA		\		\	0.0	1437
52	27	54	4-3-3-3	2.0/2.0	6	0.0'-2.0', SAA, saturated, soft		\		\	0.0	1442
54	28	56	6-9-11-14	2.0/1.4	20	0.0'-1.4', SAA, saturated, medium dense		\		\	0.0	1451
56	29	58	5-7-8-6	2.0/2.0	15	0.0'-2.0', pale brown (5YR 5/2) and moderate reddish brown (10R 4/6) SILT, little fine to very fine sand, saturated, medium dense		\		\	0.0	1455
58	30	60	7-5-3-1	2.0/1.6	8	0.0'-1.6', SAA					0.0	1509
60	31	62	5-2-4-8	2.0/1.5	6	0-0'-0.8', SAA, 0.8'-1.5', medium gray, greenish gray (5GY 6/1) and moderate reddish brown (10R 4/6), fine-medium-coarse SAND, trace silt	60.8' Sand with Silt and Gravel				0.0	1520
62	32	64	8-7-5-6	2.0/1.8	12	0.0'-1.8', medium gray, greenish gray (5GY 6/1), and moderate reddish brown (10R 4/6) fine-medium-coarse SAND, trace silt, trace sub-rounded gravel, saturated, medium dense					0.0	1527
64	33	66	7-6-6-7	2.0/1.5	12	0.0'-1.5', SAA, no gravel present, saturated, medium dense			=		0.0	1544
66	34	68	3-5-9-10	2.0/2.0	14	0.0'-2.0', medium gray, greenish gray (5GY 6/1), and moderate reddish brown (10R 4/6) fine-medium-coarse SAND, trace silt, trace angular gravel, satuarated, medium dense			=		0.0	1549
68	35	70	7-7-7-7	2.0/1.8	14	0.0'-1.8', SAA, saturated, medium dense			=		0.0	1603
70	36	72	2-2-3-4	2.0/1.7	5	0.0'-1.7', SAA, no gravel present, saturated, loose			=		0.0	1616

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING WB915-WB-09L
Client: Honeywell **Proj. Loc:** Settling Basins 9-15 Camillus, NY **File No.:** 1163/48127	**Sampler:** 2" Split Spoon **Hammer:** 140-lb drop **Fall:** 30"	**Location:** SB915 **Start Date:** 2/8/2012 **End Date:** 2/8/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
72	37	74	7-7-12-12	2.0/2.0	19	0.0'-2.0', medium gray, greenish gray (5GY 6/1), and moderate reddish brown (10R 4/6) fine-medium-coarse SAND, little silt, trace angular gravel, saturated, medium dense to dense		=	0.0	1623
						End of Boring @ 74' bgs				
						Well Construction (bgs) Screen: 64-74 ft Riser: +2.5-64 ft #0 Sand: 62-74 ft #00 Sand: 59-62 ft Grout: 0-59 ft				

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING WB915-WB-10L
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/6/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/7/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** \ **Sand Pack** \ **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	Field Testing PID (ppm)	Field Testing Time
0	1	2	3-5-9-9	2.0/1.0	14	0.0'-1.0', brownish black (5YR 2/1) SILT and fine SAND, dry, medium dense to loose, vegetation in upper portion	Sand with Silt	\ \	0.0	2/6/2012 1453
2	2	4	3-4-5-5	2.0/1.0	9	0.0'-1.0', brownish black (5YR 2/1) fine SAND, little silt, dry, loose, woody debris in lower portion		\ \	0.0	1456
4	3	6	2-3-4-2	2.0/0.4	7	0.0'-0.4', SAA, moist		\ \	0.0	1510
6	4	8	2-3-3-3	2.0/0.0	6	No recovery	8'	\ \	NA	1516
8	5	10	WH-1.0-1-2	2.0/0.6	1	0.0'-0.6', dark yellowish brown (10YR 4/2) CLAY, trace silt, wet, loose	Clay with Silt	\ \	0.0	1527
10	6	12	1-1-2-2	2.0/0.7	3	0.0'-0.7', SAA, and greenish gray (5GY 6/1), soft, mottling and oxide staining at base		\ \	0.0	1532
12	7	14	3-4-3-4	2.0/1.7	7	0.0'-1.7', dark yellowish brown (10YR 4/2) and pale yellowish brown (10YR 6/2) CLAY, little silt, moist, soft, mottling and oxide staining, less than above		\ \	0.0	1541
14	8	16	3-2-3-2	2.0/2.0	5	0.0'-2.0', pale yellowish brown (10YR 4/2) with seams of dark gray to black, CLAY, trace silt, seams coarser with silt, little fine sand, moist, medium dense	16'	\ \	0.0	1544
16	9	18	3-4-4-6	2.0/2.0	8	0.0'-2.0', pale yellowish brown (10YR 4/2) SILT, trace clay, trace fine sand, saturated, medium dense	Silt	\ \	0.0	1553
18	10	20	2-2-3-4	2.0/1.5	5	0.0'-1.5', SAA		\ \	0.0	1600
20	11	22	2-2-3-3	2.0/0.8	5	0.0'-0.8', SAA		\ \	0.0	1607
22	12	24	6-4-5-5	2.0/2.0	9	0.0'-2.0', pale brown (5YR 5/2), SILT, trace clay, trace fine sand, saturated, soft		\ \	0.0	1613
24	13	26	2-3-2-3	2.0/2.0	5	0.0'-2.0', SAA		\ \	0.0	1620
26	14	28	3-2-3-2	2.0/2.0	5	0.0'-2.0', SAA		\ \	0.0	1624
28	15	30	3-3-3-3	2.0/2.0	6	0.0'-2.0', SAA		\ \	0.0	1641
30	16	32	3-2-2-2	2.0/1.3	4	0.0'-2.0', SAA		\ \	0.0	2/7/2012 816
32	17	34	7-3-4-5	2.0/2.0	7	0.0'-1.6', SAA, 1.6'-2.0', pale brown (5YR 5/2) fine SAND, trace silt, saturated, medium dense	33.6' Sand	\ \	0.0	820
34	18	36	3-3-4-4	2.0/2.0	7	0.0'-2.0', pale brown (5YR 5/2) fine SAND, trace silt, saturated, medium dense		\ \	0.0	832
36	19	38	7-6-6-6	2.0/2.0	12	0.0'-2.0', SAA, soft	38'	\ \	0.0	836
38	20	40	6-3-5-4	2.0/1.0	8	0.0'-1.0', pale brown (5YR 5/2) SILT, little fine sand, saturated, soft	Silt with Sand	\ \	0.0	850
40	21	42	3-2-2-5	2.0/1.2	4	0.0'-1.2', SAA		\ \	0.0	903
42	22	44	5-5-5-5	2.0/1.6	10	0.0'-1.6', SAA, medium dense	44'	\ \	0.0	908
44	23	46	3-3-3-6	2.0/1.2	6	0.0'-1.2', pale brown (5YR 5/2) fine SAND, trace silt, saturated, soft	Sand	\ \	0.0	921
46	24	48	5-6-5-6	2.0/2.0	11	0.0'-1.8', SAA, 1.8'-2.0', pale brown (5YR 5/2) CLAY and SILT, saturated, very soft	47.8'	\ \	0.0	926

O'BRIEN & GERE ENGINEERS, INC.	SOIL BORING LOG	REPORT OF BORING WB915-WB-10L
Client: Honeywell	**Sampler:** 2" Split Spoon	**Location:** SB915
Proj. Loc: Settling Basins 9-15 Camillus, NY	**Hammer:** 140-lb drop	**Start Date:** 2/6/2012
File No.: 1163/48127	**Fall:** 30"	**End Date:** 2/7/2012
Boring Company: Parratt-Wolff **Foreman:** Joe Percy **OBG Geologist:** Rob Hornung		**Screen** = \ **Grout** **Riser** **Sand Pack** **Sand Choke**

Depth Below Grade	No.	Depth (feet)	Blows /6"	Penetr/ Recovery (in ft)	"N" Value	Sample Description	Stratum Change / General Descript	Equip. Installed	PID (ppm)	Field Testing: Time
48	25	50	1-2-2-5	2.0/2.0	4	0.0'-2.0', pale brown (5YR 5/2) CLAY and SILT, saturated, loose and soft	Clay and Silt	\ \	0.0	937
50	26	52	7-3-5-1	2.0/1.8	8	0.0'-1.8', pale brown (5YR 5/2), with alternating varved moderate reddish brown (10R 4/6) CLAY and SILT, trace very fine sand, saturated, soft		\ \	0.0	947
52	27	54	2-2-2-1	2.0/2.0	4	0.0'-2.0', SAA		\ \	0.0	953
54	28	56	2-1-1-1	2.0/2.0	2	0.0'-2.0', pale brown (5YR 5/2) CLAY and SILT, trace very fine sand, saturated, soft		\ \	0.0	1005
56	29	58	4-2-4-6	2.0/2.0	6	0.0-1.3', SAA, 1.3'-2.0', pale reddish brown (10R 5/4) and greenish gray (5GY 6/1) fine to medium SAND, trace silt, saturated, loose	57.3'	\ \	0.0	1011
58	30	60	2-2-5-5	2.0/1.4	7	0.0'-1.4', pale yellowish brown (10YR 6/2) and greenish gray (5GY 6/1) fine to medium SAND, trace sub-rounded gravel, trace silt, matrix supported, saturated, loose	Sand and Gravel		0.0	1023
60	31	62	5-5-3-4	2.0/1.3	8	0.0'-1.3', SAA, trace sub-angular to angular gravel, saturated, medium dense			0.0	1033
62	32	64	6-4-6-13	2.0/2.0	10	0.0'-2.0', SAA, little angular to sub-angular gravel, saturated, medium dense			0.0	1040
64	33	66	17-17-15-15	2.0/1.3	32	0.0'-1.3', pale brown (5YR 5/2), greenish gray (5GY 6/1), and medium dark gray fine to medium SAND, some sub-rounded to sub-angular gravel, wet, dense		=	0.0	1053
66	34	68	17-32-50/0.5	1.5/1.5	32	0.0'-1.5', SAA, some angular, sub-angular, and sub-rounded gravel, matrix supported, wet, very dense		=	0.0	1103
68	35	70	24-19-14-30	2.0/1.2	33	0.0'-1.2', SAA, dense		=	0.0	1132
70	36	72	32-28-25-30	2.0/1.0	53	0.0'-1.0', pale yellowish brown (10YR 6/2), medium dark gray, and dark gray, fine-medium-coarse sand, some sub-rounded to sub-angular gravel, matrix supported, wet, very dense		=	0.0	1148
72	37	74	20-18-14-18	2.0/0.8	32	0.0'-0.8', SAA		=	0.0	1157
						End of Boring @ 74' bgs				

Well Construction (bgs)
Screen: 64-74 ft (10 slot)
Riser: +2.5-64 ft
#0 Sand: 62-74 ft
#00 Sand: 59-62 ft
Grout: 0-59 ft

Appendix D

Well Development Logs (on CD at end of Appendices)

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-WB-05L

Date	6-29-12	Field Personnel	JWB, EBR	Weather	~90°F Sun
Site Name	SB915	Contractor	OBG	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	Grundfos Pump		

Well information:

Depth to Bottom (Initial) *	ft.	Date(s) Installed		Date(s) Developed	6/29/12
Depth to Bottom (Final)*	ft.	Driller	Parratt Wolff	Development Time	Start: 1235
Depth to Water (Initial)*	21.38 ft.	Well Diameter	2 in.		Stop: 1400
Depth to Water (Final)*	ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	88.62 ft.				
1 well Volume (0.163xLWC)	14.4 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate mL (gal/min)	Hydrometer	Depth to Water (ft.)
Start	5	17.65	6.51	>100.00	~~>1000~~	6,600	1.082	22.22
1	15	17.11	6.32	>100.00	1892	6,000	1.080	22.22
2	30	17.73	6.14	>100.0	30.7	6,000	1.078	22.22
3	45	16.02	6.26	>100.0	11.2	6,000	1.078	22.22
4	60	15.45	6.22	>100.0	5.5	6,000	1.078	22.22
5	75	16.07	6.15	>100.0	3.99	6,000	1.078	22.22
6	90	15.29	6.22	>100.0	3.51	6,000	1.078	22.22
7	105	15.19	6.22	>100.0	2.80	6,000	1.078	22.22
8	120	15.09	6.20	>100.0	2.46	6,000	1.078	22.22
9	135	15.24	6.20	>100.0	1.73	6,000	1.078	22.22
10	150	14.60	6.19	>100.0	1.86	6,000	1.078	22.22

Development Water Characteristics:

Total volume of Development water removed: ~150 gallons

Development Water Disposal Method: Roll-off container

Physical appearance at start		Physical appearance at end	
Color	Dark Gray	Color	Clear
Odor	None	Odor	no
Sheen/Free Product	None	Sheen/Free Product	no

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW-36D

Date	6/29/12	Field Personnel	JWR, EBR	Weather	~90°F Sunny
Site Name	SB915	Contractor	OBG	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	Grundfos Pump		

Well information:

Depth to Bottom (Initial) *	107 ft.	Date(s) Installed		Date(s) Developed	6/29/12
Depth to Bottom (Final)*	ft.	Driller	Parratt-Wolff Inc	Development Time	Start: 0955
Depth to Water (Initial)*	81.46 ft.	Well Diameter	2 in.		Stop: 1055
Depth to Water (Final)*	ft.	Casing Volume	gal.		Total: 60 min
Length of Water Column (LWC)	25.54 ft.				
1 well Volume (0.163xLWC)	4.1 gal.	Pump setting* (intake)	94 btoc	* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity (mS/cm or µS/cm)	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0.25	17.72	8.28	13.1	22.2	2840	1.010	
1	4	16.91	7.70	11.7	73.2	2800	1.012	82.65
2	8	17.09	7.38	6.51	1643	2800	1.004	82.55
3	12	16.53	7.21	5.40	65.7	2800	1.002	82.60
4	16	15.55	6.97	5.09	39.4	2900	1.002	82.60
5	20	15.50	6.86	4.95	24.6	2900	1.002	82.60
6	24	15.61	6.96	4.78	14.9	2900	1.002	82.60
7	28	15.12	6.87	4.70	13.3	2900	1.002	82.60
8	32	15.24	6.82	4.64	11.7	2900	1.002	82.60
9	36	15.03	6.82	4.77	10.56	2900	1.002	82.60
10	40	14.81	6.82	4.62	8.41	2900	1.002	82.60

Development Water Characteristics:

Total volume of Development water removed: 40 gallons

Development Water Disposal Method: Roll-off Container

Physical appearance at start
- Color: Clear
- Odor: no
- Sheen/Free Product: no

Physical appearance at end
- Color: clear
- Odor: no
- Sheen/Free Product: no

NOTES: Redeveloping well after scrubbing out build-up in PVC riser on 6/28/12

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID:

Date	3/1/12	Field Personnel	Brian Lassing	Weather	WB915 - WB - [illegible] 92
Site Name	SB915	Contractor	Parratt Wolff	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method			

Well information:

Depth to Bottom (Initial) *	74.88	ft.	Date(s) Installed		Date(s) Developed	3/1/12	
Depth to Bottom (Final)*	74.91	ft.	Driller		Development Time	Start:	09:15
Depth to Water (Initial)*	4.91	ft.	Well Diameter	2 in.		Stop:	14:15
Depth to Water (Final)*	5.14	ft.	Casing Volume	gal.		Total	04:30
Length of Water Column (LWC)	69.97	ft.					
1 well Volume (0.163xLWC)	11.41	gal.	Pump setting* (intake)		* Measuring point	PVC	

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	1	11.15	5.72	92.5	71100	0.44	1.060	4.95
1	12.5	9.77	6.35	97.2	193	0.55	1.052	4.94
2	24.0	9.38	6.53	99.7	97.9	0.54	1.050	4.92
3	35.5	9.05	6.57	100.0	36.0	0.55	1.051	4.93
4	47.0	8.96	6.61	98.7	30.0	0.58	1.051	4.93
5	58.5	8.85	6.64	99.4	13.4	0.58	1.051	4.94
6	70.0	9.11	6.64	99.9	9.93	0.47	1.052	4.94
7	81.5	9.01	6.63	7100.0	41.7	0.53	1.052	4.94
8	93.0	9.52	6.63	99.2	18.0	0.54	1.051	4.95
9	104.5	9.55	6.64	99.4	16.4	0.56	1.051	4.96
10	116.0	9.63	6.65	99.0	9.61	0.56	1.050	4.95

Development Water Characteristics:

Total volume of Development water removed: 116.0

Development Water Disposal Method

Physical appearance at start
- Color: Brown silty
- Odor: none
- Sheen/Free Product: none

Physical appearance at end
- Color: clear
- Odor: none
- Sheen/Free Product: none

NOTES: - stopped pumping @ 12:00 for lunch - resumed pumping @ 12:30
- lowered tubing by 3" after 6th volume reading which is why the turbidity increased between volume 6 and 7

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915 - SB10L

Date	2/29	Field Personnel	Brian Lansing	Weather	
Site Name	SB915	Contractor	Parratt-Wolff	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method			

Well information:

Depth to Bottom (Initial) *	74.82 ft.	Date(s) Installed		Date(s) Developed	2/29
Depth to Bottom (Final)*	75.73 ft.	Driller		Development Time	Start: 09:26
Depth to Water (Initial)*	5.65 ft.	Well Diameter	2 in.		Stop: 14:58
Depth to Water (Final)*	5.85 ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	69.17 ft.				
1 well Volume (0.163xLWC)	11.27 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	1.0	9.46	5.43	78.0	>1100	0.27	1.074	7.35
1	12.5	8.44	6.40	81.5	>1100	0.47	1.050	7.05
2	24.0	7.78	6.56	89.3	1000	0.51	1.050	7.09
3	35.5	8.23	6.40	91.3	277	0.43	1.050	6.67
4	47.0	8.42	6.40	82.9	244	0.43	1.050	6.31
5	58.5	8.65	6.64	88.4	155	0.43	1.050	6.21
6	70.0	7.11	6.72	92.1	120	0.46	1.051	5.98
7	81.5	7.26	6.60	90.7	73.6	0.42	1.050	5.91
8	93.0	6.65	6.55	91.2	76.6	0.41	1.049	5.85
9	104.5	8.51	6.53	89.4	36.9	0.43	1.052	5.85
10	116.0	7.77	6.70	90.2	28.3	0.43	1.052	5.86

Development Water Characteristics:

Total volume of Development water removed: 116.0

Development Water Disposal Method

Physical appearance at start

Color: Dark silty Brown

Odor: none

Sheen/Free Product: none

Physical appearance at end

Color: clear

Odor: none

Sheen/Free Product: none

NOTES: Stopped pumping @ 12:00 for lunch - restart pumping @ 12:40

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW-104S

Date	2/29/12	Field Personnel	EBR	Weather	Overcast 30°
Site Name	SB915	Contractor	OBG	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well information:

Depth to Bottom (Initial) *	25.89 ft.	Date(s) Installed		Date(s) Developed	2/29/12
Depth to Bottom (Final)*	25.91 ft.	Driller		Development Time	Start: 0930
Depth to Water (Initial)*	5.00 ft.	Well Diameter	2 in.		Stop: 1550
Depth to Water (Final)*	ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	20.89 ft.				
1 well Volume (0.163xLWC)	3.4 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity (mS/cm or µS/cm)	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	0	9.40	5.35	>100	>1100	500	1.072	
1	3.4	8.34	5.79	92.9	>1100	460	1.058	15.40
2	6.8	8.54	5.86	93.2	>1100	760	1.052	16.27
3	10.2	7.77	5.82	100.0	>1100	460	1.060	17.75
4	13.6	6.03	6.05	100.0	>1100	540	1.062	18.62
5	17.0	6.99	6.16	100.0	>1100	700	1.068	21.41
6	20.4	6.37	6.36	100.0	>1100	700	1.066	24.32
7	23.8	6.11	6.96	100.0	>1100	600	1.068	17.57
8	27.2	6.31	6.60	100.0	>1100	500	1.074	20.22
9	30.6	5.80	6.35	100.0	>1100	220	1.072	20.95
10	34.0	6.85	6.43	100.0	>1100	620	1.068	23.98

Development Water Characteristics:

Total volume of Development water removed: 34 gals.

Development Water Disposal Method: _____

Physical appearance at start		Physical appearance at end	
Color	Brown	Color	Brown
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

NOTES: 12:10 after #6 turned off to recharge.
14:15 DTW 9.74'

Geologist Signature: _____

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915 - MW-104I

Date	2/29/12	Field Personnel	KNK	Weather	overcast 30°
Site Name	SB915	Contractor	OBG	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	waterra		

Well information:

Depth to Bottom (Initial) *	73.31 ft.	Date(s) Installed		Date(s) Developed	
Depth to Bottom (Final)*	73.26 ft.	Driller		Development Time	Start: 925
Depth to Water (Initial)*	26.86 ft.	Well Diameter	2 in.		Stop: 1121
Depth to Water (Final)*	26.86 ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	46.45 ft.				
1 well Volume (0.163xLWC)	7.5 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (ml/min) (gal/min)	Hydromoter	Depth to Water (ft.)
Start	0.0	11.77	5.88	1.53	71100	900	1.036	26.86
1	7.5	9.48	7.21	5.75	71100	2880	1.006	26.86
2	15.0	8.60	7.82	1.76	428	3080	1.002	26.86
3	22.5	9.12	7.54	4.63	329	3120	1.002	26.86
4	30.0	8.23	8.06	1.39	223	3120	1.002	26.86
5	37.5	8.29	7.95	1.24	179	3120	1.002	26.86
6	450	8.44	7.72	4.39	148	~~3~~3120	1.002	26.86
7	52.5	7.85	7.98	1.28	82.0	3120	1.002	26.86
8	60.0	7.73	7.77	4.59	65.5	3000	1.002	26.86
9	~~67.5~~ 675	7.39	8.30	1.30	66.7	2560	1.000	26.86
10	75.0	8.00	7.98	4.39	38.9	2560	1.002	26.86

Development Water Characteristics:

Total volume of Development water removed: _____

Development Water Disposal Method _____

Physical appearance at start

Color: Brown
Odor: none
Sheen/Free Product: none

Physical appearance at end

Color: clear
Odor: none
Sheen/Free Product: none

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW-1005

Date	2/28/12	Field Personnel	KNK	Weather	Sun, part. cl., cold
Site Name	SB915	Contractor	~~Parratt Wolff~~ OBG	Project No.	1163.46127
Site Location	Camillus, NY	Evacuation Method	waterra		

Well information:

Depth to Bottom (Initial) *	19.79	ft.	Date(s) Installed			Date(s) Developed	
Depth to Bottom (Final)*	19.80	ft.	Driller			Development Time	Start: 1025
Depth to Water (Initial)*	3.98	ft.	Well Diameter	2	in.		Stop: 1306
Depth to Water (Final)*	10.50	ft.	Casing Volume		gal.		Total:
Length of Water Column (LWC)	15.81	ft.					
1 well Volume (0.163xLWC)	2.5	gal.	Pump setting* (intake)			* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	0.0	8.42	6.66	7.81	47.6	850	1.010	~~3.98~~ ~~4.14~~
1	2.5	7.74	7.38	4.95	47.6	600	1.004	8.00
2	5.0	6.47	7.80	2.75	7.51	750	1.000	9.05
3	7.5	6.51	7.51	4.81	5.98	700	1.002	9.57
4	10.0	7.22	7.79	4.55	4.49	700	1.002	9.91
5	12.5	7.63	8.01	4.44	4.22	700	1.002	10.21
6	15.0	6.56	8.03	3.85	3.39	700	1.002	10.42
7	17.5	7.11	7.98	4.46	3.65	700	1.004	10.42
8	20.0	5.61	8.30	2.11	7.56	650	1.000	11.41
9	22.5	7.80	7.66	6.16	13.5	650	1.006	13.30
10	25.0	8.23	7.73	6.40	12.5	600	1.008	14.39

Development Water Characteristics:

Total volume of Development water removed: 25.0

Development Water Disposal Method

Physical appearance at start
- Color: slightly cloudy
- Odor: none
- Sheen/Free Product: none

Physical appearance at end
- Color: clear
- Odor: none
- Sheen/Free Product: none

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW-106I

Date	2/28/12	Field Personnel	EBR	Weather	Sunny 30°
Site Name	SB915	Contractor	OBG	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well Information:

Depth to Bottom (Initial) *	45.61 ft.	Date(s) Installed		Date(s) Developed	2/28/12
Depth to Bottom (Final)*	44.75 ft.	Driller		Development Time	Start: 1010
Depth to Water (Initial)*	8.27 ft.	Well Diameter	2 in.		Stop: 1330
Depth to Water (Final)*	9.05 ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	37.34 ft.				
1 well Volume (0.163xLWC)	6 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity (mS/cm or µS/cm)	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	12.53	6.24	4.63	>1100	1100	1.018	
1	6	9.94	6.09	42.1	>100	1100	1.030	11.50
2	12	7.97	6.10	47.4	>1100	1060	1.026	12.15
3	18	9.44	6.35	49.5	>1100	1100	1.034	12.30
4	24	9.50	6.59	50.3	>1100	1100	1.040	12.10
5	30	9.45	6.64	54.1	>1100	1000	1.040	12.07
6	36	8.73	6.49	55.6	>1100	1040	1.032	11.80
7	42	10.22	6.61	52.4	>1100	1300	1.040	12.90
8	48	10.14	6.60	52.7	>1100	1300	1.040	13.15
9	54	9.81	6.77	56.2	>1100	1100	1.040	13.46
10	60	10.85	6.77	55.8	>1100	1240	1.036	13.36

Development Water Characteristics:

Total volume of Development water removed: 60

Development Water Disposal Method

Physical appearance at start		Physical appearance at end	
Color	Brown	Color	Brown
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: SB915-MW 107.5

Honeywell Site :

Date	1/6/12	Field Personnel	TBP	Weather	partly cloudy warm
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well information:

Depth to Bottom (Initial) *	22.29 ft.	Date(s) Installed		Date(s) Developed	1/6/12
Depth to Bottom (Final)*	ft.	Well condition	good	Development Time	Start: 11:30
Depth to Water (Initial)*	2.98 ft.	Well Diameter	2" in.		Stop:
Depth to Water (Final)*	ft.	Casing Volume	gal.		
Length of Water Column (LWC)	19.31 ft.	Air Monitoring	No	Development Method	Waterra
1 Well Volume (0.163xLWC)	3.14 gall.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	13.07	6.64	30.7	—	880	1.016	2.98
1	3.14	13.72	6.91	16.9	—	880	1.012	14.85
2	6.28	12.86	6.82	25.5	—	880	1.016	14.10
3	9.42	12.71	6.54	37.3	—	660	1.020	14.47
4	12.56	12.94	6.44	48.0	—	660	1.026	15.55
5	15.7	12.41	6.42	54.1	—	660	1.030	16.01
6	18.84	11.98	6.37	65.1	726	660	1.032	16.01
7	21.98	12.05	6.30	68.5	374	660	1.034	16.01
8	25.12	12.16	6.33	69.8	139	660	1.034	16.01
9	28.26	13.29	6.33	68.4	78.6	660	1.034	16.01
10	31.4	12.58	6.31	68.6	—	660	1.034	16.01

Development Water Characteristics:

Total volume of Development water removed: _____

Development Water Disposal Method: _____

Physical appearance at start

Color: Reddish Brown

Odor: None

Sheen/Free Product: None

Physical appearance at end

Color: Cloudy

Odor: None

Sheen/Free Product: None

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: SB9/5 - MW-107I

Honeywell Site :

Date	1/5/12	Field Personnel	EBR/TBP	Weather	Overcast 30°
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well information:

Depth to Bottom (Initial) *	57.00 ft.	Date(s) Installed		Date(s) Developed	1/5/12
Depth to Bottom (Final)*	57.00 ft.	Well condition	Good	Development Time	Start: 1300
Depth to Water (Initial)*	6.94 ft.	Well Diameter	2 in.		Stop: 1450
Depth to Water (Final)*	10.95 ft.	Casing Volume	gal.		
Length of Water Column (LWC)	50.06 ft.	Air Monitoring	No	Development Method	Waterra
1 Well Volume (0.163xLWC)	8.15 gall.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	11.97	8.35	3.81	>1100	3000	1.012	
1	8.15	10.67	7.37	9.13	>1100	2200	1.004	9.00
2	16.30	9.92	7.92	15.60	329	2000	1.004	6.97
3	24.45	10.37	6.84	12.2	341	3600	1.004	6.95
4	32.60	10.44	6.83	11.9	175	3600	1.004	6.95
5	40.75	10.39	6.76	12.0	150	3600	1.004	6.95
6	48.90	9.29	6.71	12.5	104	3600	1.004	6.95
7	57.05	10.09	6.64	12.3	87.3	3600	1.004	6.95
8	65.20	10.51	6.65	12.2	73.0	3600	1.004	6.95
9	73.35	10.64	6.65	12.1	52.3	3600	1.004	6.95
10	81.50	10.85	6.65	12.1	40.3	3600	1.004	6.95

Development Water Characteristics:

Total volume of Development water removed: 82 gals

Development Water Disposal Method:

Physical appearance at start		Physical appearance at end	
Color	Brown	Color	Clear
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: SB9-15-MW 107D

Honeywell Site :

Date	1/10/12	Field Personnel	EBR/TBP	Weather	Overcast 40°
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well information:

Depth to Bottom (Initial) *	101.99 ft.	Date(s) Installed		Date(s) Developed	1/10/12
Depth to Bottom (Final)*	107.10 ft.	Well condition	Good	Development Time	Start: 0915
Depth to Water (Initial)*	6.58 ft.	Well Diameter	2 in.		Stop: 1340
Depth to Water (Final)*	8.70 ft.	Casing Volume	gal.		
Length of Water Column (LWC)	95.41 ft.	Air Monitoring	No	Development Method	Waterra
1 Well Volume (0.163xLWC)	15.55 gall.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	9.21	7.74	56.3	>1100		1.052	4.90
1	15.5	10.06	6.61	>100	>1100	3300	1.072	11.50
2	31.0	10.62	6.55	>100	>1100	3100	1.078	9.60
3	46.5	10.23	6.63	>100	>1100	4000	1.078	9.03
4	62.0	10.08	6.55	>100	>1100	4000	1.078	9.10
5	77.5	11.22	6.74	>100	851	4000	1.076	8.70
6	93.0	9.82	6.63	>100	382	4000	1.078	8.70
7	108.5	10.43	6.41	>100	453	4000	1.078	8.70
8	124.0	10.75	6.33	>100	488	4000	1.078	9.00
9	139.5	10.48	6.33	>100	399	4000	1.078	8.50
10	155	10.50	6.33	>100	401	4000	1.078	8.70

Development Water Characteristics:

Total volume of Development water removed: 155 gallons

Development Water Disposal Method:

Physical appearance at start		Physical appearance at end	
Color	Brown	Color	Cloudy
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: SB915-MW-107BR

Honeywell Site :

Date	12/23/11	Field Personnel	EBR/TBP	Weather	Rain 35°
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method			

Well information:

Depth to Bottom (Initial) *	132.10 ft.	Date(s) Installed		Date(s) Developed	12/23/11 1/5/12
Depth to Bottom (Final)*	133.31 ft.	Well condition	Good	Development Time	Start: 1200
Depth to Water (Initial)*	46.56 ft.	Well Diameter	2 in.		Stop:
Depth to Water (Final)*	ft.	Casing Volume	gal.		
Length of Water Column (LWC)	127.5 ft.	Air Monitoring	No	Development Method	Grundfos
1 Well Volume (0.163xLWC)	20.78 gall.	Pump setting* (intake)		* Measuring point	PVC

	Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
	Start	0	11.07	6.73	>100	150	1860	1.120	22.00
1/5/12	1	20	9.14	8.04	82.1	717	NA	1.030	100.00
1/9	2	40	11.80	8.07	>100	>1100	1240	1.116	18.97
1/10/12	3	60	10.01	6.69	>100	>1100	1400	1.124	124.18
1/11/12	4	80	12.29	8.32	>100	>1100	1240	1.124	119.16
2/24/12	5	100	10.92	6.14	>100	580	1200	1.118	127.85
2/28/12	6	120	9.09	5.95	>100	396	400	1.132	114.76
2/29/12	7	140	7.97	6.26	100.0	257	1000	1.132	116.30
3/1/12	8	160	14.30	4.65	>100	396	1340	1.128	119.02
3/2/12	9	180	13.03	5.27	>100	209	1200	1.130	71.32
3/2/12	10	200	13.15	6.78	>100	66.7	1160	1.132	102.21

Development Water Characteristics:

Total volume of Development water removed: 200 gals

Development Water Disposal Method:

Physical appearance at start		Physical appearance at end	
Color	Reddish Brown	Color	Cloudy
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

NOTES: Water rose to top of PVC while installing pump.

- 1/4/12 12.57 • 1/10/12 9:15 27.85 1330 97.10'
- 1/11/12 1350: 24.01'
- 2/24/12 1345 DTW 18.05' Finished 1440 DTW 127.85
- 2/28/12 1415 DTW 18.57' Finished 1525 DTW 114.76
- 2/29/12 1245 DTW 18.80' **Geologist Signature:** Finised 1350 DTW 116.30
- 3/1/12 0900 DTW 14.67' Finished 1010 DTW 119.02
- 3/1/12 1350 DTW 83.00' / 1430 Went dry. / 1530 DTW 113.60' Removed 11.5 gals.
- 3/2/12 0840 DTW 27.84' Check valve came off. Started 0855 1012 DTW 130.16' 15 gals. 5 to go. 1415 DTW 77.35' 1435 Finished

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW 108S

Date	2/22/12	Field Personnel	EBR	Weather	Overcast 40'
Site Name	SB915	Contractor		Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well Information:

Depth to Bottom (Initial) *	26.65 ft.	Date(s) Installed		Date(s) Developed	2/22/12
Depth to Bottom (Final)*	ft.	Driller		Development Time	Start: 1430
Depth to Water (Initial)*	22.49 ft.	Well Diameter	2 in.		Stop: 1600
Depth to Water (Final)*	ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	4.16 ft.				
1 well Volume (0.163xLWC)	0.68 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	12.61	9.66	1.37	>1100	700	1.016	
1	.7	11.40	8.36	1.20	>1100	700	1.008	24.21
2	1.4	11.18	8.05	1.21	>1100	600	1.010	24.88
3	2.1	10.86	7.63	1.22	>1100	640	1.010	25.10
4	2.8	10.89	7.29	1.21	>1100	600	1.010	25.30
5	3.5	10.15	6.85	1.25	>1100	500	1.006	24.02
6	4.2	10.18	6.78	1.25	>1100	520	1.002	24.17
7	4.9	10.14	6.87	1.26	>1100	500	1.004	24.57
8	5.6	10.13	6.94	1.26	>1100	500	1.004	24.71
9	6.3	10.11	6.91	1.33	>1100	520	1.004	24.61
10	7.0	10.10	6.95	1.27	1000	500	1.004	24.71

Development Water Characteristics:

Total volume of Development water removed: 7 gals

Development Water Disposal Method

Physical appearance at start		Physical appearance at end	
Color	Brown	Color	Cloudy
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

NOTES: Stopped after 4 well volumns to let well recharge

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: SB9I5-MW-108D

Honeywell Site :

Date	1/12/12	Field Personnel	TDP	Weather	35° overcast w/ light rain
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well information:

Depth to Bottom (Initial) *	64.75 ft.	Date(s) Installed		Date(s) Developed	1/12/12
Depth to Bottom (Final)*	64.75 ft.	Well condition	good	Development Time	Start: 9:20
Depth to Water (Initial)*	27.50 ft.	Well Diameter	2 in.		Stop: 1230
Depth to Water (Final)*	28.50 ft.	Casing Volume	gal.		
Length of Water Column (LWC)	36.75 ft.	Air Monitoring	No	Development Method	Waterra
1 Well Volume (0.163xLWC)	5.99 gall.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	12.74	9.76	6.16	>1100	800	1.062	27.65
1	6	10.69	8.84	2.12	>1100	1000	1.020	28.70
2	12	9.80	8.14	1.03	>1100	1000	1.006	28.60
3	18	9.34	7.74	1.02	>1100	1000	1.004	28.55
4	24	9.40	7.64	1.03	>1100	1100	1.002	28.55
5	30	9.46	7.31	1.04	>1100	1100	1.000	28.55
6	36	9.52	7.09	1.03	>1100	1100	1.000	28.55
7	42	9.42	7.50	1.06	589	1100	1.000	28.55
8	48	9.55	7.65	1.07	466	1100	1.000	28.55
9	54	9.52	7.66	1.08	456	1100	1.000	28.55
10	60	9.46	7.66	1.08	431	1100	1.000	28.50

Development Water Characteristics:

Total volume of Development water removed: 60 gal

Development Water Disposal Method:

Physical appearance at start		Physical appearance at end	
Color	Brown	Color	Cloudy
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	Trace Sheen

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: SB915 - MW-108BR

Honeywell Site :

Date	2/22/12 - 2/23/12	Field Personnel	RDH, JK	Weather	±40's, Cloudy, Showers
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well information:

Depth to Bottom (Initial) *	94.30 ft.	Date(s) Installed		Date(s) Developed	2/22/12, 2/23/12
Depth to Bottom (Final)*	94.78 ft.	Well condition	Good	Development Time	Start: 1437, 0934
Depth to Water (Initial)*	17.45 ft.	Well Diameter	2 in.		Stop: 1637, 1329
Depth to Water (Final)*	36.59 ft.	Casing Volume	gal.		
Length of Water Column (LWC)	76.85 ft.	Air Monitoring	No	Development Method	Waterra
1 Well Volume (0.163xLWC)	12.53 gall.	Pump setting* (intake)	~1 foot off bottom	* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	mS/cm Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	12.21	8.94	3.20	NM	0.63	1.002	33.01
1	12.53	11.36	8.60	3.16	302	0.32	1.004	41.35
2	25.06	9.61	6.89	3.22	8.62	0.50	1.002	33.89
2/23/12 3	37.59	10.51	6.44	2.89	15.20	0.21	1.004	38.05
4	50.12	9.23	6.90	2.97	7.20	0.18	1.004	37.74
5	62.65	11.06	7.08	2.88	6.10	0.16	1.004	36.64
6								
7								
8								
9								
10								

Development Water Characteristics:

Total volume of Development water removed: ~ 63 gallons

Development Water Disposal Method: Rolloff onsite

Physical appearance at start		Physical appearance at end	
Color	Cloudy Gray	Color	Clear
Odor	No	Odor	No
Sheen/Free Product	No	Sheen/Free Product	No

NOTES: NM indicates that no turbidity value could be obtained because reading was not within the range of the instrument. Pumped and ~~purged~~ (RDH) purged on well on 2/21/12 to remove material settled in screened interval. Purged approximately 70 gallons from well Depth to bottom measured at 94.30' BMP.

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: SB915-MW-108BR

Honeywell Site :

Date	1/11/12	Field Personnel	EBR/TBP	Weather	Sunny 40°
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well information:

Depth to Bottom (Initial) *	83.94 ft.	Date(s) Installed		Date(s) Developed	1/11/12 1/12/12
Depth to Bottom (Final)*	ft.	Well condition	Good	Development Time	Start: 1100
Depth to Water (Initial)*	12.26 ft.	Well Diameter	2 in.		Stop:
Depth to Water (Final)*	ft.	Casing Volume	gal.		
Length of Water Column (LWC)	71.68 ft.	Air Monitoring	No	Development Method	Waterra
1 Well Volume (0.163xLWC)	11.68 gall.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	10.97	12.99	28.6	>1100	2680	1.002	10.79
1	11.7	11.27	13.29	9.97	>1100	2240	1.006	74.30
2	23.4							
3								
4								
5								
6								
7								
8								
9								
10								

1/12 3186

Development Water Characteristics:

Total volume of Development water removed: _____

Development Water Disposal Method: _____

Physical appearance at start

Color: Grey

Odor: None

Sheen/Free Product: None

Physical appearance at end TBP

Color: [illegible]

Odor: [illegible]

Sheen/Free Product: [illegible]

NOTES: Very thick grey material at start

Geologist Signature:

O'Brien & Gere Engineers, Inc. Development Low Flow Ground Water Sampling Log

Date	2/23/18	Personnel	EBR	Weather	Overcast 40°
Site Name	SCA	Evacuation Method	Waterra	Well #	SB915-MW-109S
Site Location	Camillus	Sampling Method		Project #	

COC # / Field Sample ID :

Well information:

Depth of Well *	15.73 / 15.75	ft.
Depth to Water *	3.02 / 3.01	ft.
Length of Water Column	12.71	ft.
Well Volumn	2.1	

Well Dia (in)	Gallons per Ft	Linear Ft per gallon
1	0.0408	24.5
2	0.1632	6.1
4	0.6528	1.5

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Water parameters:

	Elapsed Time (gals.)	Depth To Water	Temperature	pH	Conductivity (mS/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/l) Dens'ty	Turbidity (NTU)	Flow Rate (ml/min).
	0		12.28	9.84	39.1		1.020	>1100	1200
1	2	3.01	10.80	11.80	35.9		1.018	>1100	820
2	4	3.01	9.72	12.09	36.5		1.018	376	820
3	6	3.01	9.16	12.21	37.1		1.018	164	820
4	8	3.01	8.28	12.19	37.7		1.018	79.8	800
5	10	3.01	8.43	12.25	37.7		1.018	55.9	800
6	12	3.01	8.40	12.08	37.7		1.018	61.3	500
7	14	3.01	8.45	12.24	38.3		1.018	62.7	540
8	16	3.01	8.43	12.26	38.6		1.018	62.4	500
9	18	3.01	8.34	12.18	38.8		1.018	36.4	500
10	20	3.01	8.32	11.98	38.6		1.018	28.4	520

Water sample:

Density Measurement _____

Start: 1025
Finish: 1240

Time collected: _____

Total volume of purged water removed: 20 gals.

Physical appearance at start

Color: Black
Odor: None
Sheen/Free Product: Slight

Physical appearance at sampling

Color: Clear
Odor: None
Sheen/Free Product: None

Samples collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

Notes:

SB415-MW-

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: 109I

Honeywell Site :

Date	2-23-12	Field Personnel	JK	Weather	Overcast 35°-45°
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method	WATERRA		

Well information:

Depth to Bottom (Initial) *	53.45 ft.	Date(s) Installed		Date(s) Developed	
Depth to Bottom (Final)*	54.25 ft.	Well condition	Good	Development Time	Start: 9:30
Depth to Water (Initial)*	15.90 ft.	Well Diameter	2" in.		Stop:
Depth to Water (Final)*	34.10 ft.	Casing Volume	gal.		
Length of Water Column (LWC)	37.65 ft.	Air Monitoring	No	Development Method	Waterra
1 Well Volume (0.163xLWC)	6.1 gall.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0.26	13.03	5.99	12.0	>1100	0.23		15.90
1	6.0	11.72	6.73	11.6	>1100	0.23	1.016	37.90
2	12.0	10.93	7.81	9.87	>1100	0.21	1.008	45.35
3	18.0	10.23	7.74	8.76	>1100	0.16	1.006	45.15
4	24.0	11.38	8.00	8.81	>1100	0.19	1.008	42.04
5	30.0	11.83	7.94	9.41	>1100	0.16	1.006	45.14
6	34.0	11.76	8.07	11.9	1000	0.13	1.008	35.42
7	38.0	10.67	7.97	13.3	841	0.14	1.010	
2/24/12 8	6.0	11.68	6.62	13.3	1000	760	1.010	35.36
9	12.0	10.00	7.16	10.2	363	720	1.008	40.70
10	18.0	10.30	7.01	11.2	230	700	1.008	42.31

Development Water Characteristics:

Total volume of Development water removed: 56 gals.

Development Water Disposal Method:

Physical appearance at start		Physical appearance at end	
Color	Brown	Color	Cloudy
Odor	No	Odor	None
Sheen/Free Product	No	Sheen/Free Product	None

NOTES:
- STOPPED PUMPING @ 19 GAL H2O LEVEL BELOW TOP OF SCREEN, ALLOW TO RECHARGE (11:40 - 12:40) 20' OF H2O BACK DTW 21.15' RESUME PUMPING
- STOPPED @ 31 GAL TO ALLOW RECHARGE AGAIN (13:46 - 14:45) DTW 21.36'
- Started to pump 2/24/12 @ 9:55 DTW 15.67 - Finished 1140

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID:

Date	2/23/12	Field Personnel	EBR	Weather	SB915-MW-110S
Site Name	SB915	Contractor		Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well information:

Depth to Bottom (Initial) *	20.09 ft.	Date(s) Installed		Date(s) Developed	2/23/12
Depth to Bottom (Final)*	20.09 ft.	Driller		Development Time	Start: 1500
Depth to Water (Initial)*	3.15 ft.	Well Diameter	2 in.		Stop: 1640
Depth to Water (Final)*	4.02 ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	16.94 ft.				
1 well Volume (0.163xLWC)	2.8 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	0	9.02	9.72	7.30	>1100	860	1,008	
1	2.8	8.85	8.42	6.65	>1100	1300	1.006	4.30
2	5.6	8.42	7.98	6.68	>1100	1260	1.006	4.75
3	8.4	8.05	7.73	6.74	>1100	1300	1.006	4.95
4	11.2	7.80	7.54	6.79	>1100	1360	1.006	5.10
5	14.0	7.48	7.44	6.82	>1100	1340	1.004	5.34
6	16.8	7.25	7.34	6.79	725	1400	1.002	5.35
7	19.6	7.08	7.27	6.78	543	1320	1.002	5.39
8	22.4	6.92	7.23	6.80	497	1320	1.006	5.28
9	25.2	6.93	7.18	6.79	486	1280	1.004	5.31
10	28.0	6.90	7.17	6.78	458	1240	1.004	5.25

Development Water Characteristics:

Total volume of Development water removed: 28 gals

Development Water Disposal Method

Physical appearance at start
- Color: Brown
- Odor: None Slight
- Sheen/Free Product: None

Physical appearance at end
- Color: Cloudy
- Odor: Slight
- Sheen/Free Product: None

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW1115

Date	2/28	Field Personnel	Brian Lansing	Weather	
Site Name	SB915	Contractor	Parratt Wolff	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method			

Well information:

Depth to Bottom (Initial) *	23.28 ft.	Date(s) Installed		Date(s) Developed	2/28
Depth to Bottom (Final)*	24.45 ft.	Driller		Development Time	Start: 14:00
Depth to Water (Initial)*	7.78 ft.	Well Diameter	2 in.		Stop: 16:30
Depth to Water (Final)*	9.00 ft.	Casing Volume	gal.		Total: 2:30
Length of Water Column (LWC)	15.5 ft.				
1 well Volume (0.163xLWC)	2.5 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	0.5	8.30	6.92	36.7	>1100	0.13	1.11	7.21
1	3.0	8.08	7.15	31.0	>1100	0.23	1.019	9.58
2	5.5	7.36	7.22	29.0	>1100	0.18	1.014	9.03
3	8.0	7.30	7.30	25.0	>1100	0.18	1.011	9.03
4	10.5	7.51	7.29	25.6	>1100	0.18	1.011	9.03
5	13	7.42	7.41	18.2	>1100	0.18	1.008	9.03
6	15.5	7.02	7.33	22.9	>1100	0.18	1.009	9.04
7	18.0	7.31	7.33	20.8	>1100	0.17	1.009	9.02
8	20.5	7.26	7.46	18.3	>1100	0.17	1.007	9.01
9	23	7.18	7.23	14.7	>1100	0.17	1.006	9.01
10	25.5	7.95	7.18	14.1	1000	0.17	1.006	9.00

Development Water Characteristics:

Total volume of Development water removed: 25.5

Development Water Disposal Method

Physical appearance at start

Color: Silty Brown

Odor: none

Sheen/Free Product: none

Physical appearance at end

Color: Cloudy creamy white

Odor: none

Sheen/Free Product: none

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW111D

Date	2-27-12	Field Personnel	Jeff Kiggins	Weather	
Site Name	SB915	Contractor	Parratt Wolff	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method			

Well information:

Depth to Bottom (Initial) *	100.63 ft.	Date(s) Installed		Date(s) Developed	2/27-28/12
Depth to Bottom (Final)*	99.05 ft.	Driller		Development Time	Start 15:30
Depth to Water (Initial)*	5.09 ft.	Well Diameter	2" in.		Stop: 14:00
Depth to Water (Final)*	5.75 ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	95.54 ft.				
1 well Volume (0.163xLWC)	15.6 gal.	Pump setting* (intake)	99.0'	* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	41	10.37	6.33	>100.0	>1100	0.7	1,076	5.09
1	11	10.75	6.35	>100.0	434	0.59	1,072	4.25
2	26	10.59	6.42	>100.0	36.3	0.59	1.074	5.30
3	42 gal	9.23	4.07	>100.0	43.4	0.54	1.074	5.35
4	58	9.44	5.06	>100.0	18.5	0.57	1.074	5.35
5	74	9.78	5.49	>100.0	14.4	0.50	1.074	5.35
6	90	9.82	5.88	>100.0	10.1	0.53	1.074	5.35
7	106	10.35	6.09	>100.0	10.5	0.53	1.074	5.37
8	122	10.28	6.13	>100.0	8.32	0.53	1.074	5.35
9	138	11.10	6.15	>100.0	5.49	0.53	1.076	5.35
10	154	11.17	6.26	>100.0	5.22	0.53	1.076	5.35

Development Water Characteristics:

Total volume of Development water removed: 154 GAL

Physical appearance at start
- Color: Silty Brown
- Odor: ND
- Sheen/Free Product: NO

Development Water Disposal Method:

Physical appearance at end
- Color:
- Odor: NO
- Sheen/Free Product: NO

NOTES: CONTINUE DEVELOPMENT 2-28-12 STARTING DTW 5.18' 8:50 AM

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW 1125

Date	2-27-12	Field Personnel		Weather	35-45° PARTSUN
Site Name	SB915	Contractor		Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method			

Well information:

Depth to Bottom (Initial) *	20.28	ft.	Date(s) Installed		Date(s) Developed	2-27-12	
Depth to Bottom (Final)*	20.12	ft.	Driller		Development Time	Start:	10:30
Depth to Water (Initial)*	12.05	ft.	Well Diameter	2 in.		Stop:	14:55
Depth to Water (Final)*	15.57	ft.	Casing Volume	gal.		Total:	4:25
Length of Water Column (LWC)	8.23	ft.					
1 well Volume (0.163xLWC)	1.34	gal.	Pump setting* (intake)	19.0'	* Measuring point	PVC	

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	0.5	11.68	7.43	11.8	>1100	0.13	1.092	14.45
1	3.0	10.61	9.07	11.3	>1100	0.12	1.022	14.85
2	4.5	10.14	9.25	12.3	>1100	0.11	1.012	15.56
3	6.0	9.66	9.38	14.9	>1100	0.10	1.012	15.95
4	7.5	9.19	9.24	11.6	>1100	0.14	1.042	15.25
5	9.0	9.21	9.32	13.0	>1100	0.17	1.012	16.16
6	10.5	9.16	9.83	10.3	>1100	0.12	1.010	16.52
7	12.0	9.24	10.04	9.86	>1100	0.12	1.012	17.05
8	13.5	10.17	9.79	9.28	>1100	0.21	1.012	15.17
9	15.0	10.06	9.98	10.1	>1100	0.17	1.010	16.25
10	16.5	10.19	9.59	12.6	>1100	0.14	1.010	17.57

Development Water Characteristics:

Total volume of Development water removed: 17.0

Development Water Disposal Method

Physical appearance at start
- Color: VERY SILTY BROWN
- Odor: NONE
- Sheen/Free Product: NONE

Physical appearance at end
- Color: CLOUDY BROWN
- Odor: NO
- Sheen/Free Product: NO

NOTES:

PUMPING STOPPED @ 2 GAL MAX RECHARGE 10:54 - 11:20
STOPPED - RECHARGE 12:04 - 12:45 DTW 12.76
STOPPED TO RECHARGE 13:35 - 14:26 DTW 12.75

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW112I

Date	2-27-12	Field Personnel		Weather	
Site Name	SB915	Contractor		Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method			

Well information:

Depth to Bottom (Initial) *	55.44 ft.	Date(s) Installed		Date(s) Developed	
Depth to Bottom (Final)*	55.55 ft.	Driller		Development Time	Start: 9:00
Depth to Water (Initial)*	15.12 ft.	Well Diameter	2 in.		Stop: 11:40
Depth to Water (Final)*	15.45 ft.	Casing Volume	gal.		Total: 2:40
Length of Water Column (LWC)	40.32 ft.				
1 well Volume (0.163xLWC)	6.6 gal.	Pump setting* (intake)	39.0'	* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	2	13.03	5.75	72.6	>1000	0.59	1.030	
1	9	12.21	6.06	71.8	1100	0.59	1.038	
2	15	11.92	6.07	78.4	813		1.039	15.70
3	21	11.60	6.15	82.0	346	0.47	1.040	
4	27	11.71	6.21	82.6	151		1.042	15.55
5	33	11.53	6.33	83.1	91.9		1.041	
6	39	11.37	6.30	83.7	64.8		1.042	
7	45	11.44	6.49	84.0	50.8		1.040	15.58
8	51	11.42	6.43	83.8	32.5	0.48	1.041	
9	57	11.43	6.49	83.8	29.3		1.042	
10	63	11.01	6.63	84.0	27.2	0.51	1.042	15.62

Development Water Characteristics:

Total volume of Development water removed: 63.0

Development Water Disposal Method

Physical appearance at start

Color Cloudy / Sandy / Brown

Odor None

Sheen/Free Product No

Physical appearance at end

Color Clear

Odor None

Sheen/Free Product None

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915 - MW-1135

Date	3/2/12	Field Personnel	Brian Lansing	Weather	Partly cloudy
Site Name	SB915	Contractor	Parratt Wolff	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method			

Well information:

Depth to Bottom (Initial) *	29.79 ft.	Date(s) Installed		Date(s) Developed	3/2/12
Depth to Bottom (Final)*	29.80 ft.	Driller		Development Time	Start: 08:52
Depth to Water (Initial)*	9.41 ft.	Well Diameter	2 in.		Stop: 11:53
Depth to Water (Final)*	10.31 ft.	Casing Volume	gal.		Total: 03:01
Length of Water Column (LWC)	20.38 ft.				
1 well Volume (0.163xLWC)	3.32 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0.5	11.95	11.96	27.7	71100	0.18	1.013	11.33
1	4.0	11.36	12.26	24.9	>1100	0.22	1.013	12.73
2	7.5	10.91	12.50	25.8	71100	0.22	1.018	12.89
3	11.0	10.83	12.59	25.4	71100	0.22	1.040	12.91
4	14.5	11.45	12.58	26.8	>1100	0.21	1.046	12.96
5	18.0	11.35	12.54	27.1	71100	0.22	1.038	12.97
6	21.5	11.27	12.38	28.5	71100	0.22	1.059	12.93
7	25.0	10.88	12.21	28.6	71100	0.21	1.056	12.89
8	28.5	10.86	12.30	28.2	71100	0.22	1.041	12.85
9	32.0	11.31	12.28	29.6	71100	0.23	1.050	12.85
10	35.5	11.62	12.24	29.2	71100	0.24	1.034	13.01

Development Water Characteristics:

Total volume of Development water removed: 35.5

Development Water Disposal Method

Physical appearance at start

Color silty Brown

Odor none

Sheen/Free Product none

Physical appearance at end

Color silty Brown

Odor none

Sheen/Free Product light and very spotty

NOTES: a little sheen started showing up after approximately 12 gal. - sheen light and spotty

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: ~~SB9/15~~ MW-115BR

Honeywell Site :

Date	12/22/11	Field Personnel	EBR/TBP	Weather	Overcast 45°
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method	Grundfos		

Well information:

Depth to Bottom (Initial) *	90.84 ft.	Date(s) Installed		Date(s) Developed	12/22/11 / 12/23/11
Depth to Bottom (Final)*	91.88 ft.	Well condition	Good	Development Time	Start: 1315
Depth to Water (Initial)*	7.57 ft.	Well Diameter	2 in.		Stop: 1100
Depth to Water (Final)*	9.62 ft.	Casing Volume	gal.		
Length of Water Column (LWC)	83.27 ft.	Air Monitoring	No	Development Method	
1 Well Volume (0.163xLWC)	13.5 gall.	Pump setting* (intake)	1ft. off bottom	* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	11.67	6.89	48.6	>1100	2800	1.060	10.73
1	13.5	11.63	6.83	49.5	320	2000	1.036	9.78
2	27.0	11.55	6.68	31.2	300	2080	1.032	9.92
3	40.5	11.52	6.64	44.3	180	2120	1.034	9.85
4	54.0	11.48	6.63	45.3	50	2200	1.034	9.88
5	67.5	11.30	6.61	59.0	60	2200	1.034	9.91
6	81.0	11.32	6.59	54.0	28	2200	1.034	9.91
7	94.5	12.55	6.95	82.0	40	2000	1.040	9.58
8	108.0	10.81	6.64	38.7	9.9	2000	1.040	9.58
9	121.5	10.67	6.61	50.5	3.1	1500	1.040	9.58
10	135.0	10.43	6.59	83.1	2.8	2200	1.040	9.62

1.06

12/23/11

Development Water Characteristics:

Total volume of Development water removed: 135 gals.

Development Water Disposal Method:

Physical appearance at start

Color: Reddish Brown

Odor: None

Sheen/Free Product: None

Physical appearance at end

Color: Clear

Odor: None

Sheen/Free Product: None

NOTES: 79-89 Screen No water loss.

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW-116S

Date	3/1/12	Field Personnel	KNK	Weather	Snow/Rain 33°
Site Name	SB915	Contractor	OBG	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well Information:

Depth to Bottom (Initial) *	19.85 ft.	Date(s) Installed		Date(s) Developed	
Depth to Bottom (Final)*	19.89 ft.	Driller		Development Time	Start: 1041
Depth to Water (Initial)*	4.41 ft.	Well Diameter	2 in.		Stop:
Depth to Water (Final)*	7.93 ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	15.44 ft.				
1 well Volume (0.163xLWC)	2.5 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	0.0	11.58	6.73	19.5	>1100	800	1.014	4.41
1	2.5	9.49	7.27	8.58	>1100	740	1.008	7.44
2	5.0	9.30	7.61	6.95	>1100	800	1.006	7.98
3	7.5	8.88	7.67	4.85	>1100	850	1.004	8.42
4	10.0	8.72	7.73	3.78	>1100	860	1.002	8.42
5	12.5	8.32	7.58	3.08	>1100	900	1.002	9.01
6	15.0	8.13	7.49	2.88		1120	1.004	8.57
7	17.5	7.83	7.53	2.61		930	1.000	8.74
8	20.0	7.67	7.50	2.50		1060	1.002	9.41
9	22.5	7.55	7.54	2.54	91	900	1.002	9.08
10	25.0	7.33	7.57	2.46	81.3	900	1.000	8.03

Development Water Characteristics:

Total volume of Development water removed: 25.0

Development Water Disposal Method

Physical appearance at start
- Color: Brown
- Odor: none
- Sheen/Free Product: none

Physical appearance at end
- Color: clear
- Odor: none
- Sheen/Free Product: none

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW-117S

Date	3/2/12	Field Personnel	EBR / KNK	Weather	Partly Sunny 35°
Site Name	SB915	Contractor	OBG	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well Information:

Depth to Bottom (Initial) *	25.92 ft.	Date(s) Installed		Date(s) Developed	
Depth to Bottom (Final)*	25.91 ft.	Driller		Development Time	Start: 1030
Depth to Water (Initial)*	7.82 ft.	Well Diameter	2 in.		Stop: 1235
Depth to Water (Final)*	18.50 ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	18.05 ft.				
1 well Volume (0.163xLWC)	2.9 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity (mS/cm or µS/cm)	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	0	11.91	6.69	19.8	>1000	1100	1.022	
1	3	10.99	7.17	9.66	>1000	820	1.022	16.11
2	6	11.35	7.43	7.60	>1000	900	1.030	16.49
3	9	11.73	7.35	8.18	>1000	840	1.044	16.51
4	12	11.27	7.49	8.47	>1000	900	1.050	16.51
5	15	11.90	7.44	8.31	>1000	840	1.050	17.75
6	18	11.48	7.72	7.88	>1000	860	1.050	18.43
7	21	10.99	7.69	7.95	>1000	800	1.032	19.03
8	24	12.33	7.55	7.49	>1000	820	1.032	19.49
9	27	12.84	7.62	6.87	>1000	820	1.046	19.58
10	30	~~12.80~~	~~7.45~~	~~0.007~~	>1000	1000	1.054	19.94
		13.05	7.70	7.15				

Development Water Characteristics:

Total volume of Development water removed: 30 gals.

Development Water Disposal Method

Physical appearance at start
- Color: Brown
- Odor: None
- Sheen/Free Product: None

Physical appearance at end
- Color: Brown
- Odor: None
- Sheen/Free Product: None

NOTES:

Geologist Signature:

Screen 4-14

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: SB9/5-mw 1185

Honeywell Site :

Date	12/21/11	Field Personnel	TBP/EBR	Weather	Rain 45°
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method	Grundfos		

Well information:

Depth to Bottom (Initial) *	15.61 ft.	Date(s) Installed		Date(s) Developed	12/21/11
Depth to Bottom (Final)*	15.62 ft.	Well condition	Good	Development Time	Start:
Depth to Water (Initial)*	3.39 ft.	Well Diameter	2 in.		Stop:
Depth to Water (Final)*	10.79 ft.	Casing Volume	gal.		
Length of Water Column (LWC)	12.22 ft.	Air Monitoring	No	Development Method	Grundfos
1 Well Volume (0.163xLWC)	1.99 gall.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	11.82	6.65	30.2	X	800	1.018	2.92
1	2	11.09	6.60	31.1	X	1800	1.010	7.26
2	4	10.99	6.62	39.7	X	300	1.022	7.95
3	6	11.40	6.58	49.5	X	200	1.026	8.02
4	8	11.65	6.89	28.2	X	720	1.018	8.90
5	10	12.55	6.48	46.1	X	220	1.026	9.12
6	12	12.56	6.48	49.6	X	550	1.024	9.15
7	14	12.70	6.54	45.7	X	420	1.024	9.80
8	16	12.85	6.55	49.5	X	300	1.026	9.98
9	18	12.47	6.81	44.8	X	550	1.026	10.55
10	20	12.45	6.83	49.9		450	1.026	10.79

Development Water Characteristics:

Total volume of Development water removed:

Development Water Disposal Method:

Physical appearance at start		Physical appearance at end	
Color	Brown	Color	Light Brown
Odor	None	Odor	None
Sheen/Free Product	None	Sheen/Free Product	None

NOTES: 4-14' screen no waterloss

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: SB915-MW 118BR

Honeywell Site :

Date	12/21/11	Field Personnel	IP, ER	Weather	
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method			

Screen @ 47-57

Well information:

Depth to Bottom (Initial) *	58.91 ft.	Date(s) Installed		Date(s) Developed	12/21/11 / 12/22/11
Depth to Bottom (Final)*	58.04 ft.	Well condition		Development Time	Start: 2:35 pm
Depth to Water (Initial)*	1.40 ft.	Well Diameter	in.		Stop:
Depth to Water (Final)*	ft.	Casing Volume	gal.		
Length of Water Column (LWC)	56.57 ft.	Air Monitoring	No	Development Method	
1 Well Volume (0.163xLWC)	9.21 gall.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity µS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	11.80	7.30	14.1	DX	1700	1.008	2.35
1	9.21	11.87	7.28	12.8	250	1760	1.008	2.41
2	18.42	11.95	6.8	12.8	95	1760	1.010	2.37
3	27.63	11.89	7.11	12.8	35	1760	1.008	2.39
4	36.84	12.03	6.83	12.8	14	1640	1.008	2.38
5	46.05	12.97	7.13	12.8	38	1560	1.008	2.58
6	55.26	12.02	7.30	12.6	17	1540	1.010	2.60
7	64.47	11.42	7.13	12.7	8.6	1520	1.008	2.60
8	73.68	11.01	6.79	11.5	9.3	1580	1.008	2.60
9	82.89	10.92	7.20	12.7	2.9	1480	1.008	2.58
10	92.10	10.96	7.28	12.8	1.1	1520	1.008	2.58

12/22/11

Development Water Characteristics:

Total volume of Development water removed: 92 gals.

Development Water Disposal Method:

Physical appearance at start

Color: Brown

Odor: None

Sheen/Free Product: None

Physical appearance at end

Color: Clear

Odor: None

Sheen/Free Product: None

NOTES: 47-57 screen. No water loss

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW-105BR

Date		Field Personnel		Weather	
Site Name	SB915	Contractor	OBG	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	Grundfos		

Well information:

Depth to Bottom (Initial) *	64.95 ft.	Date(s) Installed		Date(s) Developed	12/20 —
Depth to Bottom (Final)*	ft.	Driller	PW Inc.	Development Time	Start:
Depth to Water (Initial)*	50.34 ft.	Well Diameter	2 in.		Stop:
Depth to Water (Final)*	ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	14.61 ft.				
1 well Volume (0.163xLWC)	2.38 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU) ml/min Flow Rate	Approximate Flow Rate (gal/min) Turbidity	Hydrometer	Depth to Water (ft.)
Start	0	10.46	7.87	650	2800	650	1.002	50.88
1		10.14	7.11	220	2800	220	1.000	50.96
2		10.13	7.09	60	2800	60	1.000	50.92
3	~22	10.13	7.09	28	2800	28	1.000	50.95
4	~25	10.10	7.08	12	2800	12	1.000	50.96
5	~32	10.06	7.08	8.3	2800	8.3	1.000	50.97
6	~36	10.05	7.08	4.4	2800	4.4	1.000	50.95
7	~40	10.08	7.08	2.7	2800	2.7	1.000	50.95
8	~50	10.08	7.07	2.2	2800	2.2	1.000	50.96
9	~55	10.08	7.05	1.6	2800	1.6	1.000	50.96
10	~100							
12/20 10:00								
1/5/12	~200							
3/27/12	275							
3/29/12	600							
3/30/12	930							
4/2/12	1160							
4/2/12	1270							

Development Water Characteristics:

Total volume of Development water removed: 1,270 gallons

Development Water Disposal Method: Poly Tank

Physical appearance at start		Physical appearance at end	
Color	Brown	Color	Clear
Odor	Sulfur	Odor	Sulfur
Sheen/Free Product	NO	Sheen/Free Product	NO

NOTES:

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW111I

Date	2-27-12	Field Personnel	Brian Hansing	Weather	
Site Name	SB915	Contractor	Parratt Wolff	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method			

Well information:

Depth to Bottom (Initial) *	67.19 ft.	Date(s) Installed		Date(s) Developed	2/27 - 2/28
Depth to Bottom (Final)*	67.27 ft.	Driller		Development Time	Start: 15:35 2/27
Depth to Water (Initial)*	7.16 ft.	Well Diameter	2 in.		Stop: 13:26 2/28
Depth to Water (Final)*	7.35 ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	60.03 ft.				
1 well Volume (0.163xLWC)	9.8 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start	3	10.67	7.57	88.1	>1100	0.73	1.054	7.16
1	13	10.67	6.77	92.9	>1100	0.60	1.050	7.29
2	23	10.22	6.70	92.3	272	0.41	1.048	7.29
3	33	10.01	4.70	91.2	140	0.71	1.048	7.29
4	43	9.15	5.67	93.8	60.9	0.48	1.047	7.29
5	53	9.40	6.06	93.9	38.4	0.51	1.045	7.35
6	63	9.37	6.22	94.4	30.4	0.40	1.046	7.35
7	73	9.53	6.31	94.3	31.6	0.40	1.046	7.35
8	83	9.90	6.35	93.3	28.3	0.41	1.045	7.35
9	93	10.76	6.37	92.2	18.0	0.42	1.045	7.35
10	103	10.61	6.36	90.9	16.2	0.48	1.045	7.35

Development Water Characteristics:

Total volume of Development water removed: 103 gallons

Development Water Disposal Method

Physical appearance at start
- Color: silty Brown
- Odor: none
- Sheen/Free Product: none

Physical appearance at end
- Color: clear
- Odor: none
- Sheen/Free Product: none

NOTES: Continued 2/28 @ 9:00am - starting depth of water 7.29'

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW-1113R

Date	2-28-12	Field Personnel	JEFF KIGGINS	Weather	SNOW/RAIN 35-45°
Site Name	SB915	Contractor	PENRATT WOLFF	Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method	WATERRA		

Well information:

Depth to Bottom (Initial) *	142.69 ft.	Date(s) Installed		Date(s) Developed	2/28-
Depth to Bottom (Final)*	ft.	Driller		Development Time	Start: 14:20
Depth to Water (Initial)*	0.05 ft.	Well Diameter	2 in.		Stop:
Depth to Water (Final)*	ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	142.64 ft.				
1 well Volume (0.163xLWC)	23.25 gal.	Pump setting* (intake)	141.0	* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	5	9.55	6.87	58.8	993	0.60	1.068	44.70
1	30	9.45	6.66	>100.0	236	0.19	1.090	~130.5
2	54	8.12	5.14	>100.0	369	0.15	1.118	~138
3	78	11.74	4.93	>100.1	81.6	0.18	1.120	
4	102	12.34	6.40	>100.0	250	0.34	1.118	57.58
5	126	13.49	4.99	>100.0	319	0.24	1.120	60.51
6	150	13.50	6.40	>100.0	124	0.27	1.118	71.52
7	174	11.34	6.09	>100.0	652	0.37	1.116	102.30
8	198	15.46	6.54	>100.0	449	1620	1.116	119.25
9	222	15.40	6.61	>100.0	808	1380	1.094	119.27
10 (RH)	246 242	NM	NM	NM	NM	NM	NM	NM

2-29
3-1
3-2
3/6/12
3-7-12
1-8-12

Development Water Characteristics:

Total volume of Development water removed: ~242

Development Water Disposal Method: Rolloff onsite

Physical appearance at start		Physical appearance at end	
Color	GREY OLIVE BROWN	Color	Grey/Olive Brown
Odor	NO	Odor	NO
Sheen/Free Product	NO	Sheen/Free Product	No

NOTES:
- STOPPED PUMPING FOR DAY @ 35 GAL
- 2-29-12 STARTING DTW 10.58' H_2O INITIALLY CLOUDY OLIVE, H_2O DRAW DOWN AFTER 20 GAL >125' WLI UNABLE TO READ POSSIBLY DO CONDUCTIVITY 11:55 STOPPED PUMPING @ 25 GAL TO ALLOW RECHARGE, @ 13:30 DTW 32.10' RESUME PUMPING
- OVER (SEE BACK)

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC

WELL DEVELOPMENT LOG

Well ID: SB915-MW-114BR

Date	3/1/12	Field Personnel	EBR	Weather	
Site Name	SB915	Contractor		Project No.	1163.48127
Site Location	Camillus, NY	Evacuation Method			

Well information:

Depth to Bottom (Initial) *	39.22 ft.	Date(s) Installed		Date(s) Developed	
Depth to Bottom (Final)*	ft.	Driller		Development Time	Start:
Depth to Water (Initial)*	34.61 ft.	Well Diameter	in.		Stop:
Depth to Water (Final)*	ft.	Casing Volume	gal.		Total:
Length of Water Column (LWC)	4.61 ft.				
1 well Volume (0.163xLWC)	0.75 gal.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydromoter	Depth to Water (ft.)
Start								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Development Water Characteristics:

Total volume of Development water removed: _____

Development Water Disposal Method _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Physical appearance at end

Color _____

Odor _____

Sheen/Free Product _____

NOTES:

- 3/1/12 Removed 1¼ gals, DTW 39.15'
- 3/2/12 DTW 38.20 1345 Bailed 3 times DTW 39.11
- 3/5/12 DTW 38.08 1245 Bailed 4 times DTW 39.18

Geologist Signature:

O'BRIEN & GERE ENGINEERS, INC.

WELL DEVELOPMENT LOG

Well ID: SB9-15-WB-07R

Honeywell Site :

Date	1/9/12	Field Personnel	EBR/TBP/RDH	Weather	Sunny 38°
Site Name	SB9-15 Closure	Contractor	O'Brien & Gere	Project No.	1163/46962
Site Location	Camillus, NY	Evacuation Method	Waterra		

Well information:

Depth to Bottom (Initial) *	116.08 ft.	Date(s) Installed		Date(s) Developed	
Depth to Bottom (Final)*	115.21 ft.	Well condition	Good	Development Time	Start: 1150
Depth to Water (Initial)*	4.19 ft.	Well Diameter	2 in.		Stop:
Depth to Water (Final)*	76.77 ft.	Casing Volume	gal.		
Length of Water Column (LWC)	111.89 ft.	Air Monitoring	No	Development Method	Waterra
1 Well Volume (0.163xLWC)	18.24 gall.	Pump setting* (intake)		* Measuring point	PVC

Well Volumes	Volume of Water Removed (Gallons)	Temperature °C	pH s.u	Conductivity mS/cm or µS/cm	Turbidity (NTU)	Approximate Flow Rate (gal/min)	Hydrometer	Depth to Water (ft.)
Start	0	13.70	10.19	>100	6602	2080	1,004	6.27
1/10/12 1	18.25	14.30	9.86	7100	>1100	2000	1.094	68.01
1/11/12 2	36.50	12.72	9.75	>100	>1100	1400	1.106	88.45
1/13/12 3	54.75	14.74	9.97	>100	570	1400	1.110	15.45
4	73.00	10.10	10.22	>100	714	1400	1.100	97.40
2/23/12 5	(RH) ~~80.25~~ 91.25	10.03	7.70	>100	>1100	700	1.110	91.93
2/24/12 6	109.50	7.80	7.98	>100	243	840	1.110	96.65
3-1-12 7	134	13.38	6.30	>100.0	243	0.23 gpm 680 1100	1.110	86.63
3-2-12 8	154	13.64	6.54	>100.0	116	0.29	1.100	111.5
3-5-12 9	164.25	8.71	7.30	>100.0	256	1680	1.110	96.32
3-7-12 10	182.50	15.14	7.80	>100.0	204	1920	1.110	75.52

Development Water Characteristics:

Total volume of Development water removed: ~185 gallons

Development Water Disposal Method: Rolloff onsite

Physical appearance at start

Color: Cloudy

Odor: None

Sheen/Free Product: None

Physical appearance at end

Color: Slightly Cloudy Gray

Odor: None

Sheen/Free Product: None

NOTES:

- 12:30 <10gals. 91' DTW. Pumped out 10gals. Stopped pumping. 1330 DTW 97.97'
- 1/10/12 1510: 14.20' Pumped out 20gals stopped pumping 1601 DTW 12.02
- 1/11/12 0930: 13.54' Pumped out 12gals stopped pumping 1030 DTW 112.20
- 1/12/12 1400 14.85'
- 2/23/12 1510: 11.91' Pumped out 20 gals stopped pumping 1615: DTW 94.42'
- 2/24/12 0940: 15.58'

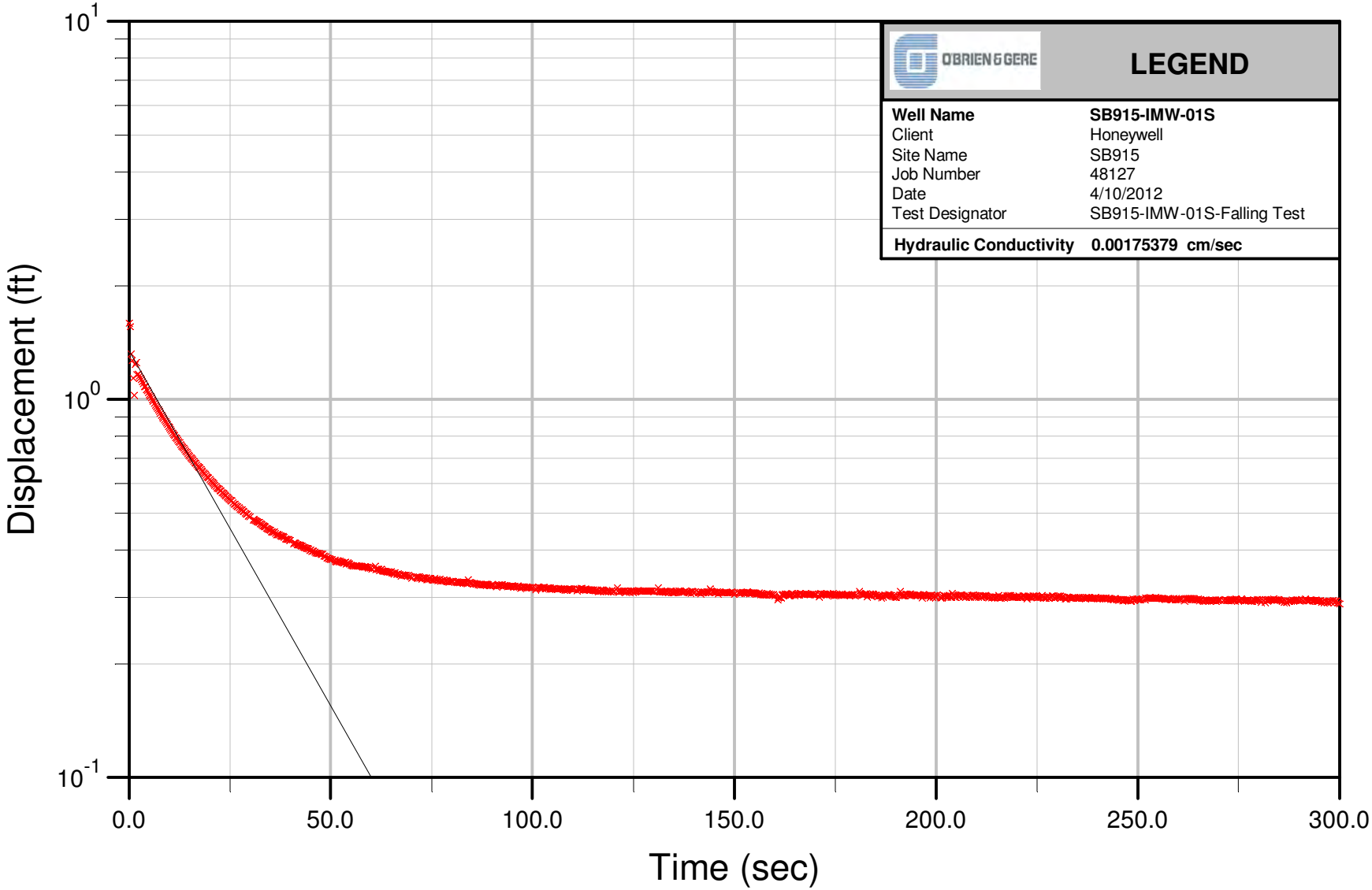
Geologist Signature:

Pumped at 18 gallons and stopped pump at 1120: DTW 97.18', wait for well to recharge. DTW 1255 72.51'

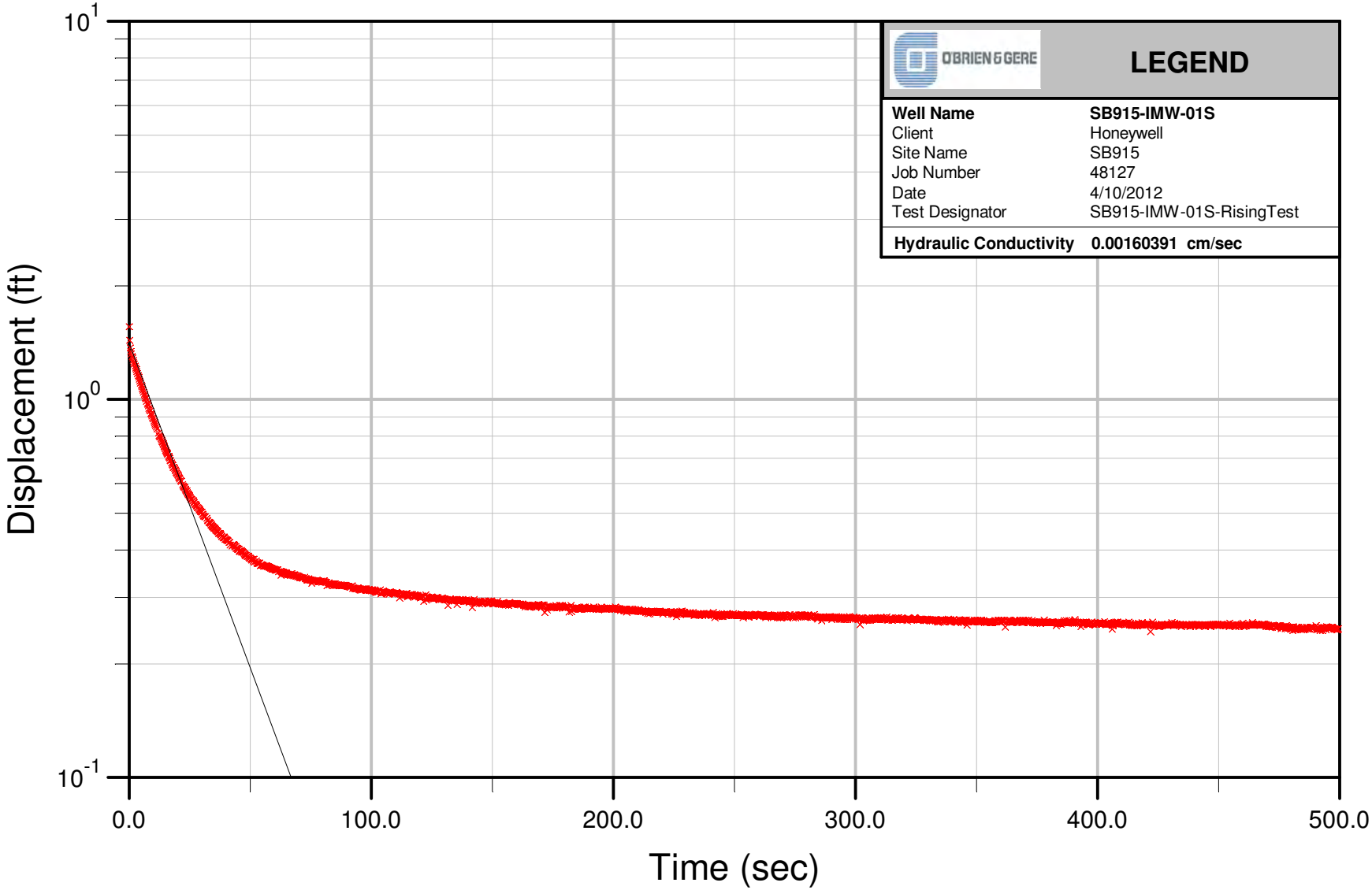
Appendix E

Hydraulic Conductivity Plots (on CD at end of Appendices)

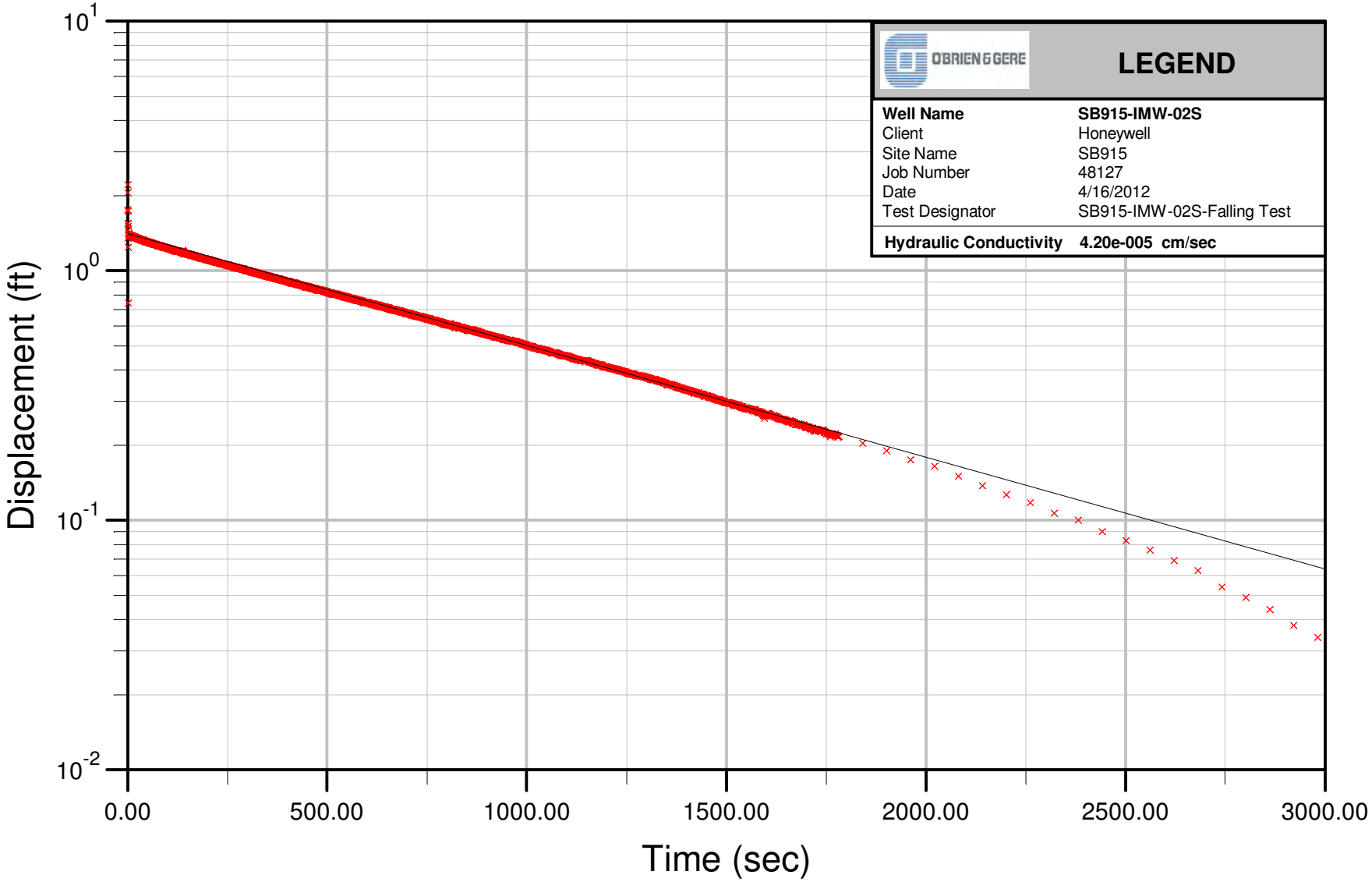
Bouwer & Rice


LEGEND
O'BRIEN & GERE
Well Name SB915-IMW-01S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/10/2012
Test Designator SB915-IMW-01S-Falling Test
Hydraulic Conductivity 0.00175379 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.0
50.0
100.0
150.0
200.0
250.0
300.0
Time (sec)

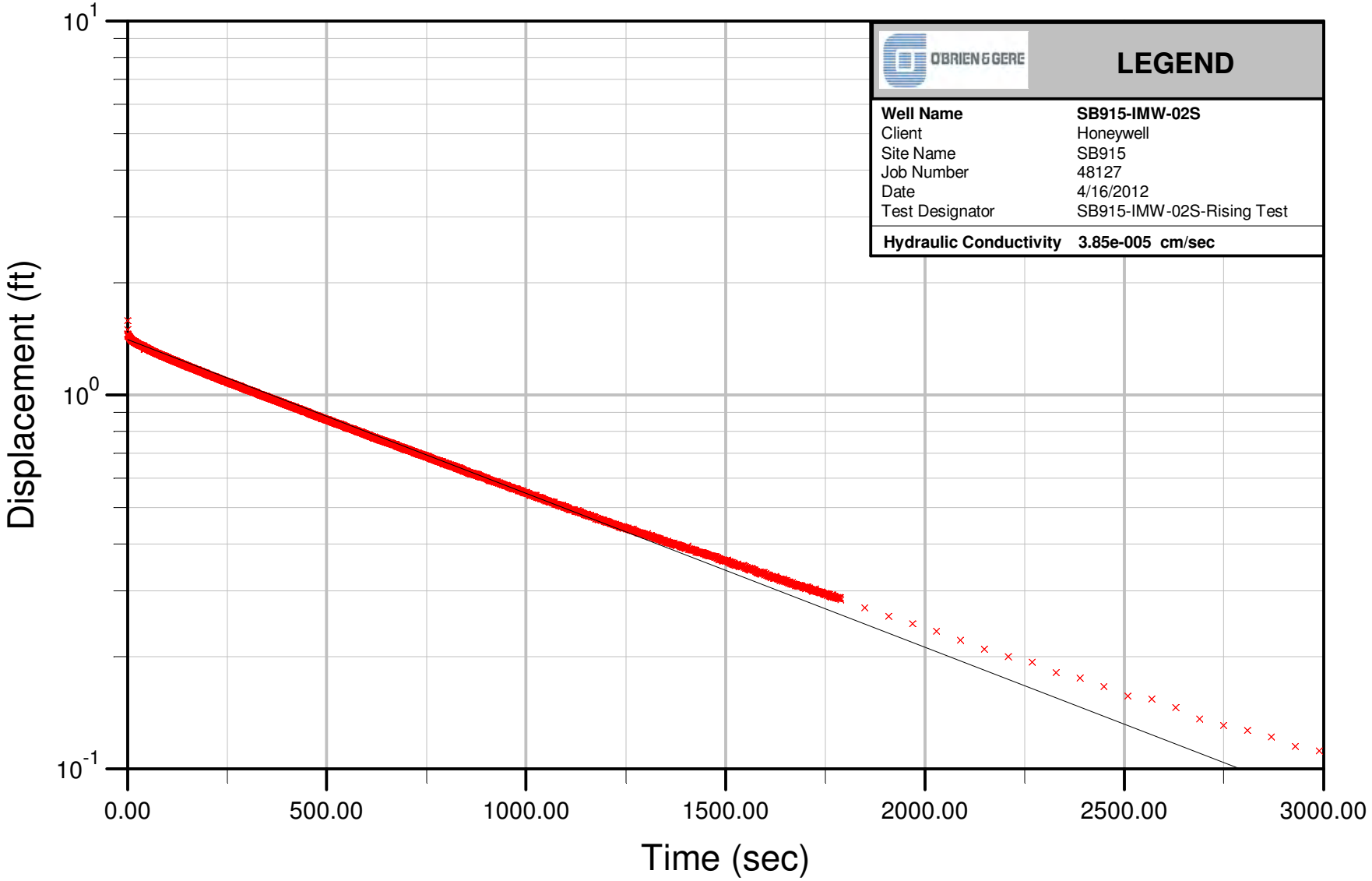
Bouwer & Rice


LEGEND
Well Name SB915-IMW-01S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/10/2012
Test Designator SB915-IMW-01S-RisingTest
Hydraulic Conductivity 0.00160391 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.0
100.0
200.0
300.0
400.0
500.0

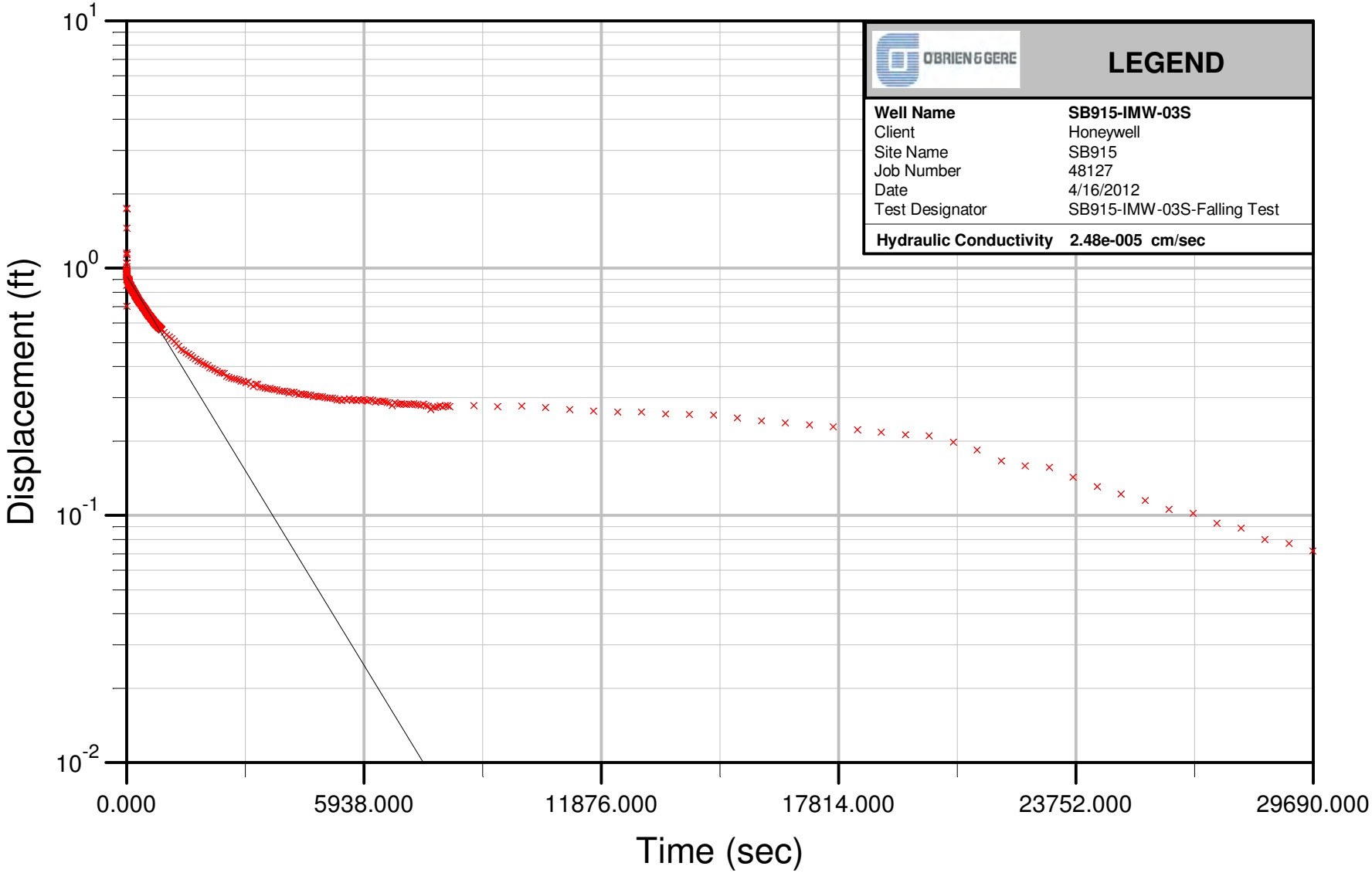
Bouwer & Rice


LEGEND
Well Name SB915-IMW-02S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/16/2012
Test Designator SB915-IMW-02S-Falling Test
Hydraulic Conductivity 4.20e-005 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.00
500.00
1000.00
1500.00
2000.00
2500.00
3000.00

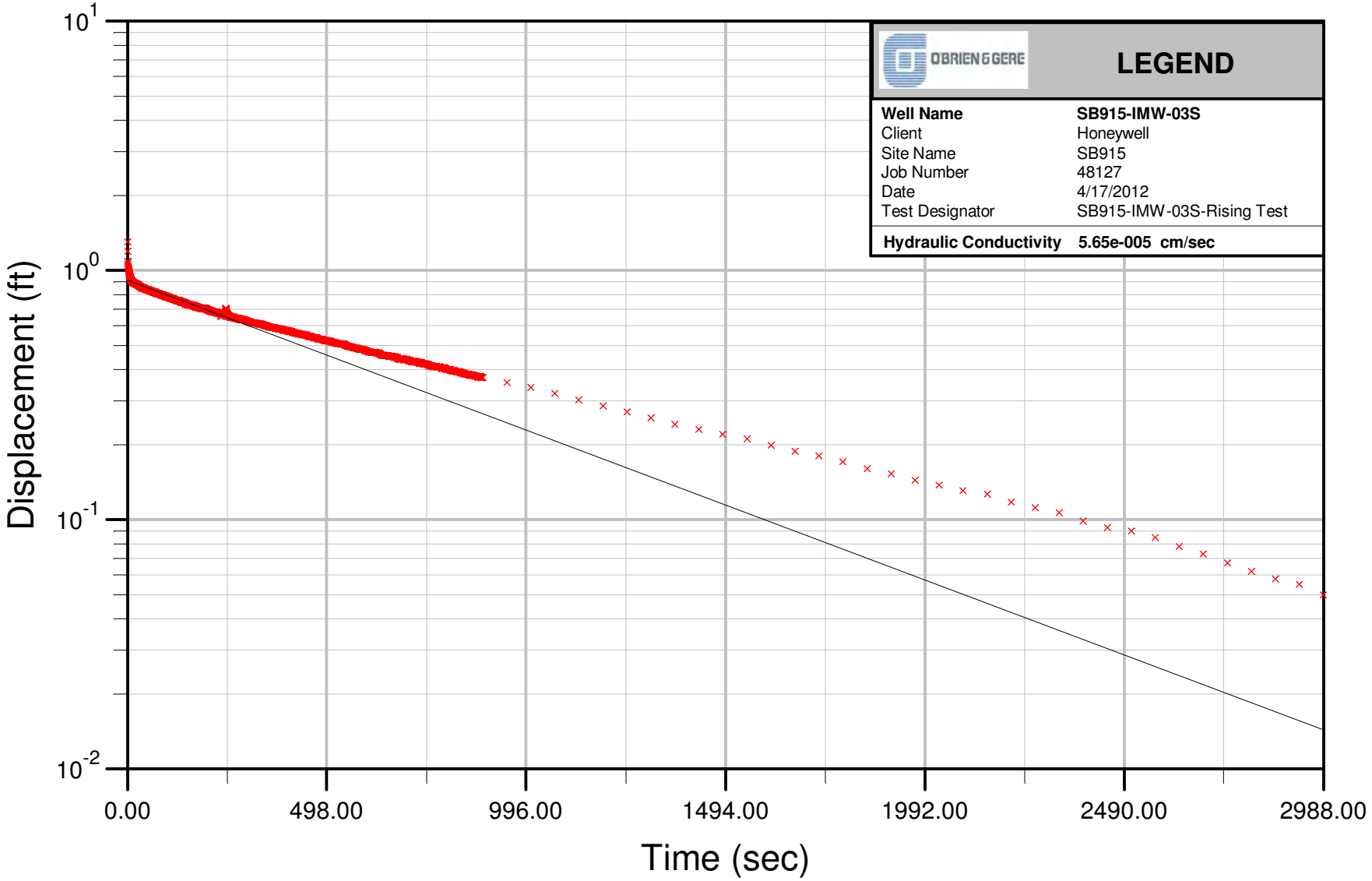
Bouwer & Rice


LEGEND
Well Name SB915-IMW-02S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/16/2012
Test Designator SB915-IMW-02S-Rising Test
Hydraulic Conductivity 3.85e-005 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
500.00
1000.00
1500.00
2000.00
2500.00
3000.00

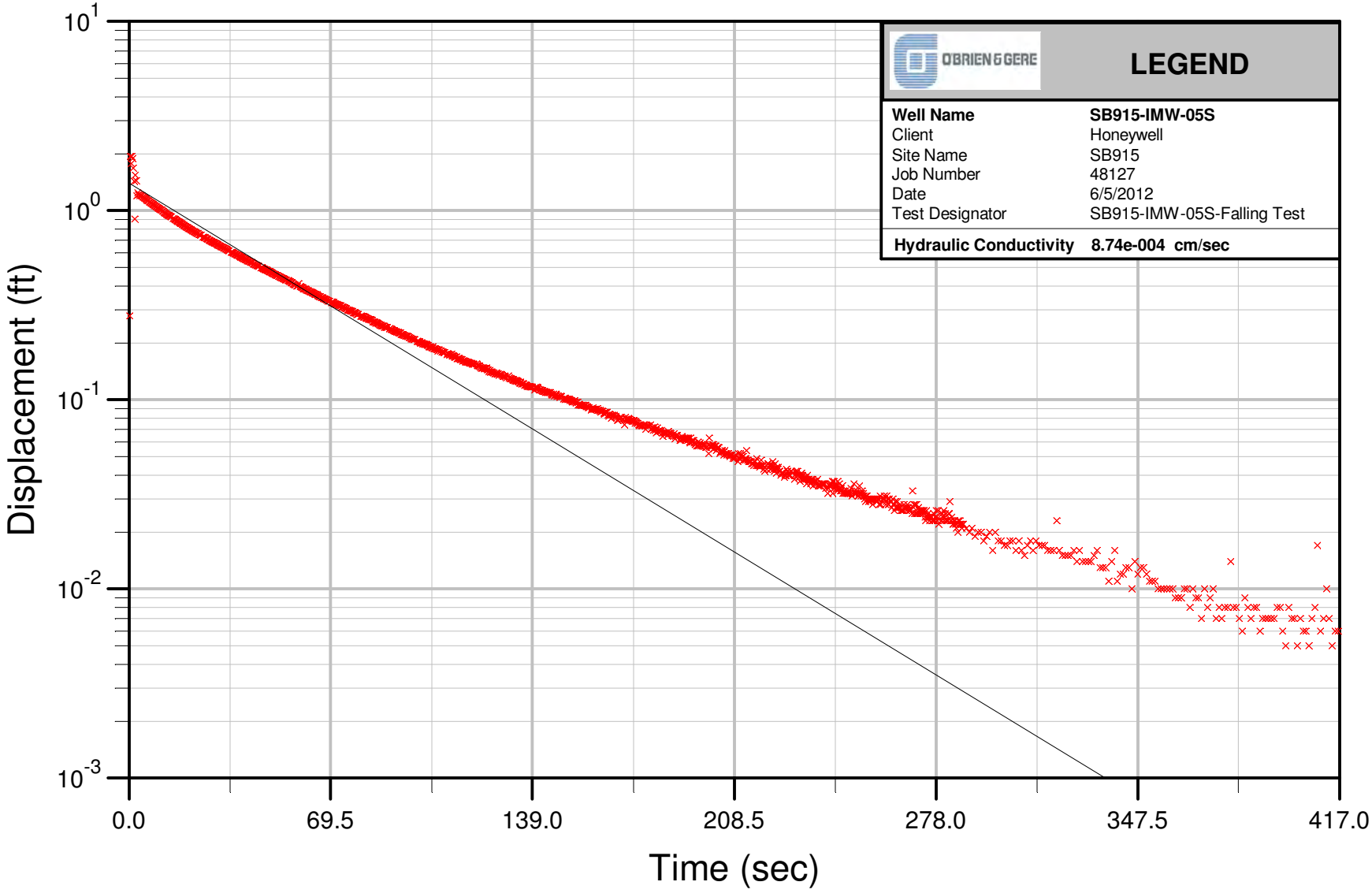
Bouwer & Rice


LEGEND
Well Name SB915-IMW-03S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/16/2012
Test Designator SB915-IMW-03S-Falling Test
Hydraulic Conductivity 2.48e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
5938.000
11876.000
17814.000
23752.000
29690.000
Time (sec)

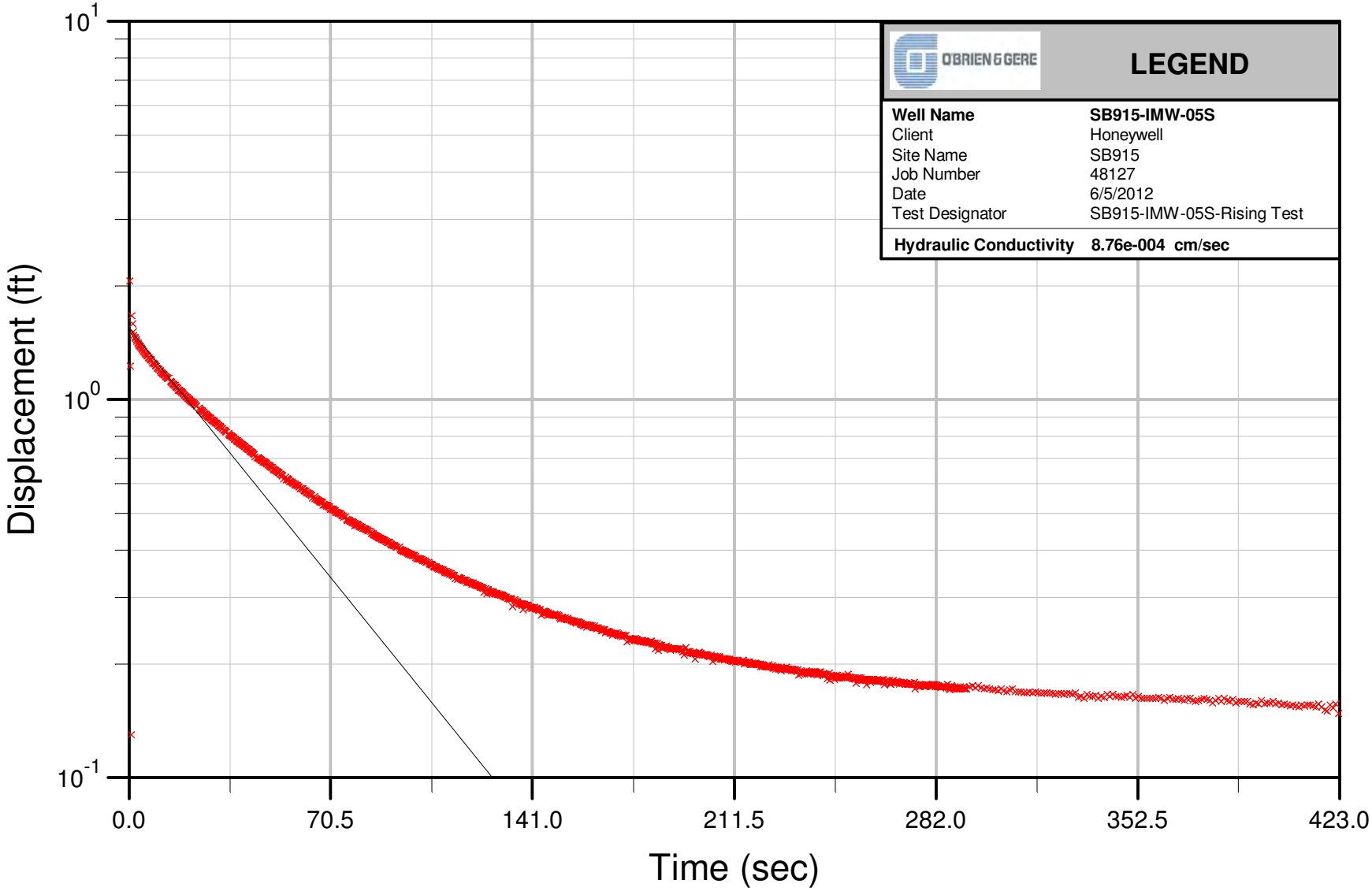
Bouwer & Rice


LEGEND
Well Name SB915-IMW-03S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/17/2012
Test Designator SB915-IMW-03S-Rising Test
Hydraulic Conductivity 5.65e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
498.00
996.00
1494.00
1992.00
2490.00
2988.00
Time (sec)

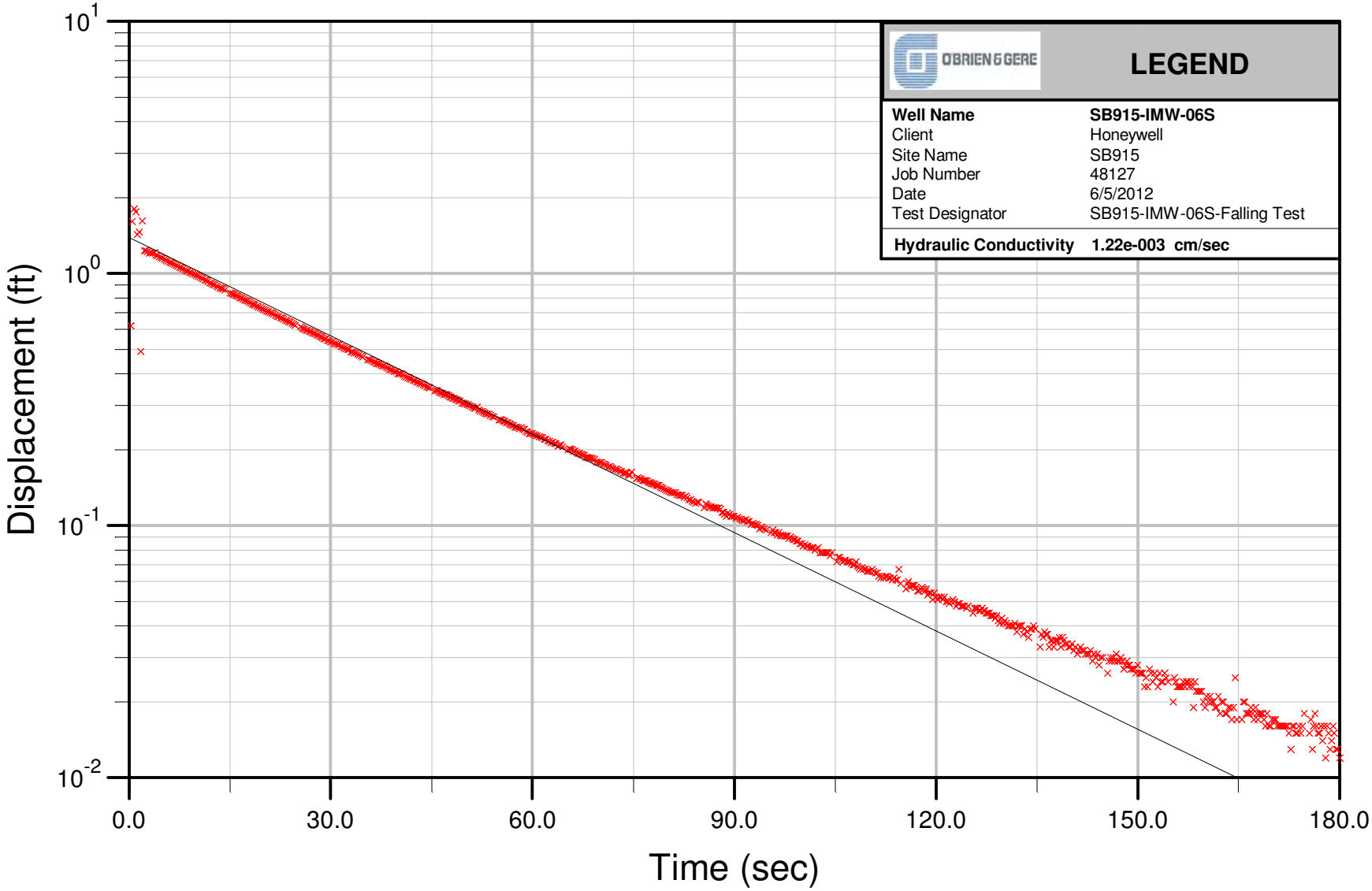
Bouwer & Rice


O'BRIEN & GERE
LEGEND
Well Name SB915-IMW-05S
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/5/2012
Test Designator SB915-IMW-05S-Falling Test
Hydraulic Conductivity 8.74e-004 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
69.5
139.0
208.5
278.0
347.5
417.0
Time (sec)

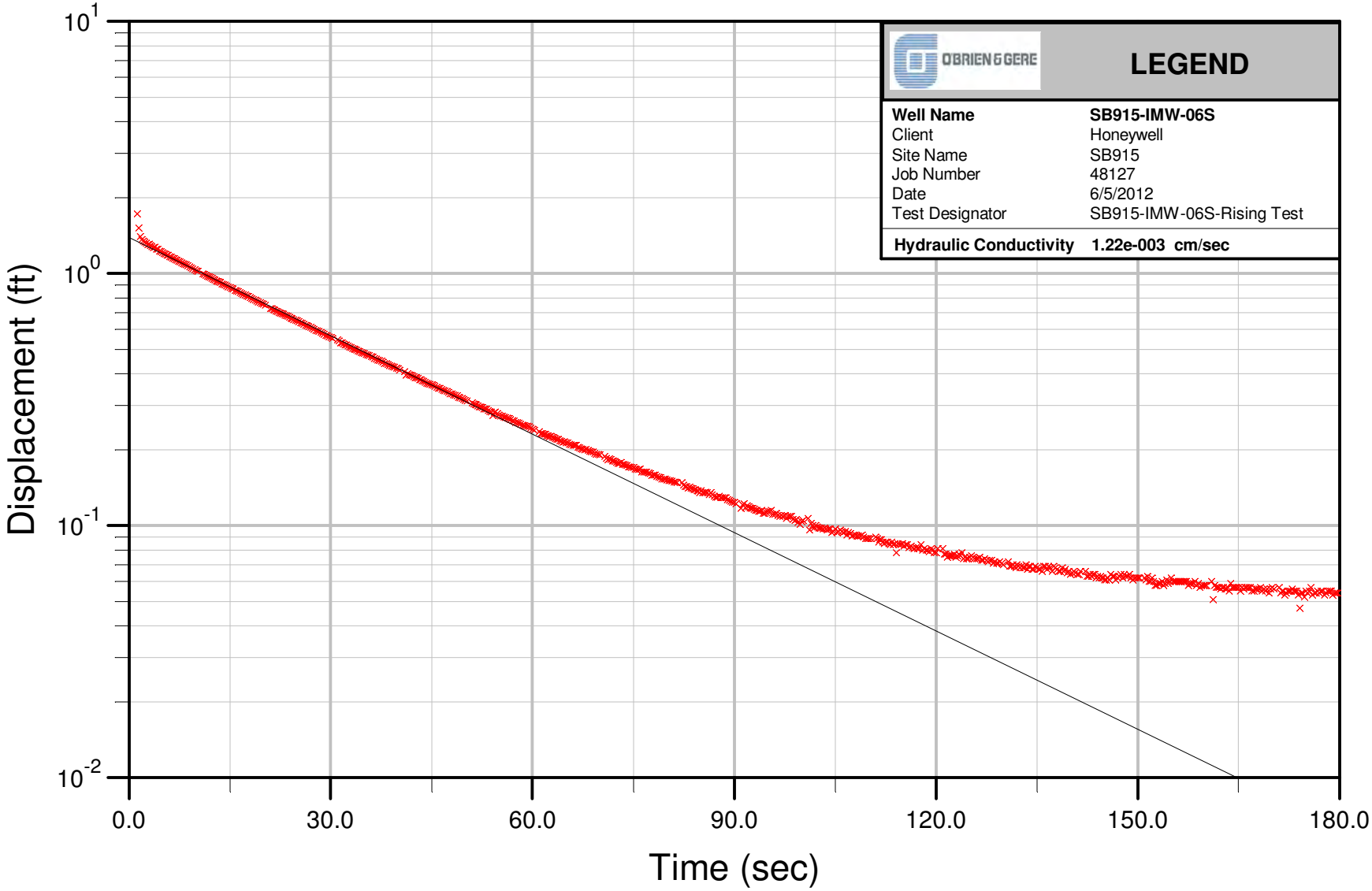
Bouwer & Rice


LEGEND
Well Name SB915-IMW-05S
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/5/2012
Test Designator SB915-IMW-05S-Rising Test
Hydraulic Conductivity 8.76e-004 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.0
70.5
141.0
211.5
282.0
352.5
423.0

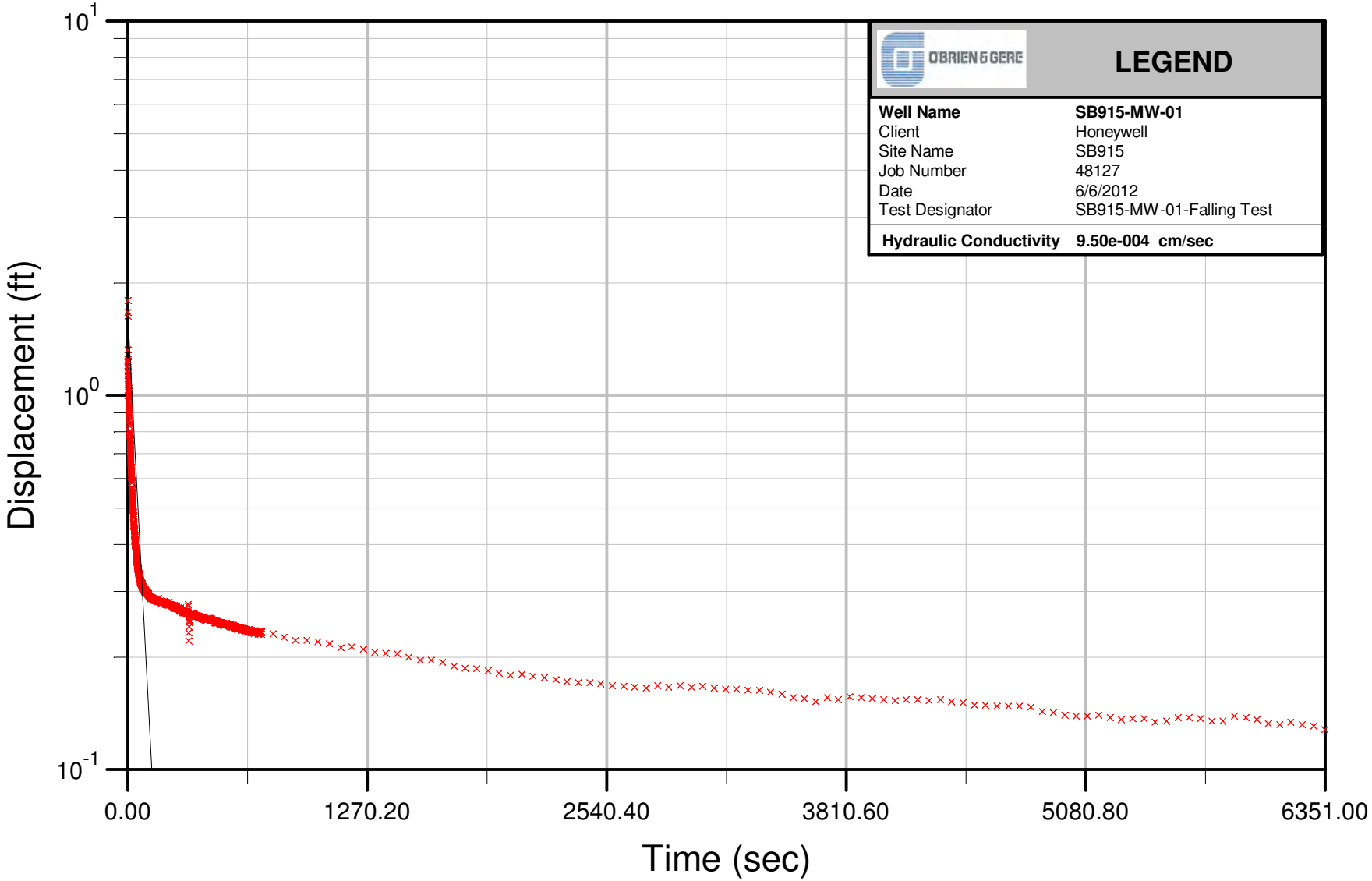
Bouwer & Rice


LEGEND
Well Name SB915-IMW-06S
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/5/2012
Test Designator SB915-IMW-06S-Falling Test
Hydraulic Conductivity 1.22e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
30.0
60.0
90.0
120.0
150.0
180.0

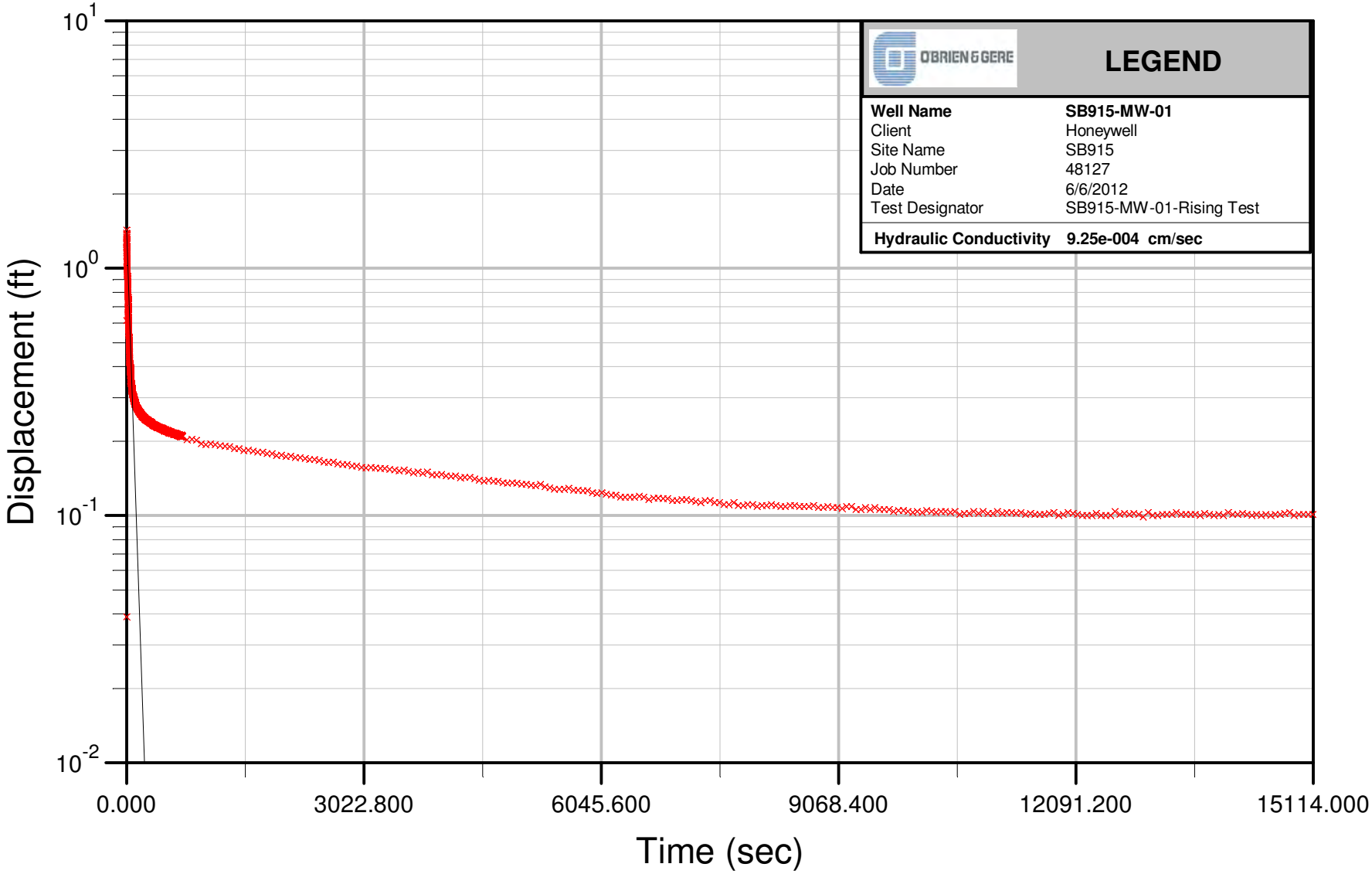
Bouwer & Rice


O'BRIEN & GERE
LEGEND
Well Name SB915-IMW-06S
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/5/2012
Test Designator SB915-IMW-06S-Rising Test
Hydraulic Conductivity 1.22e-003 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
30.0
60.0
90.0
120.0
150.0
180.0
Time (sec)

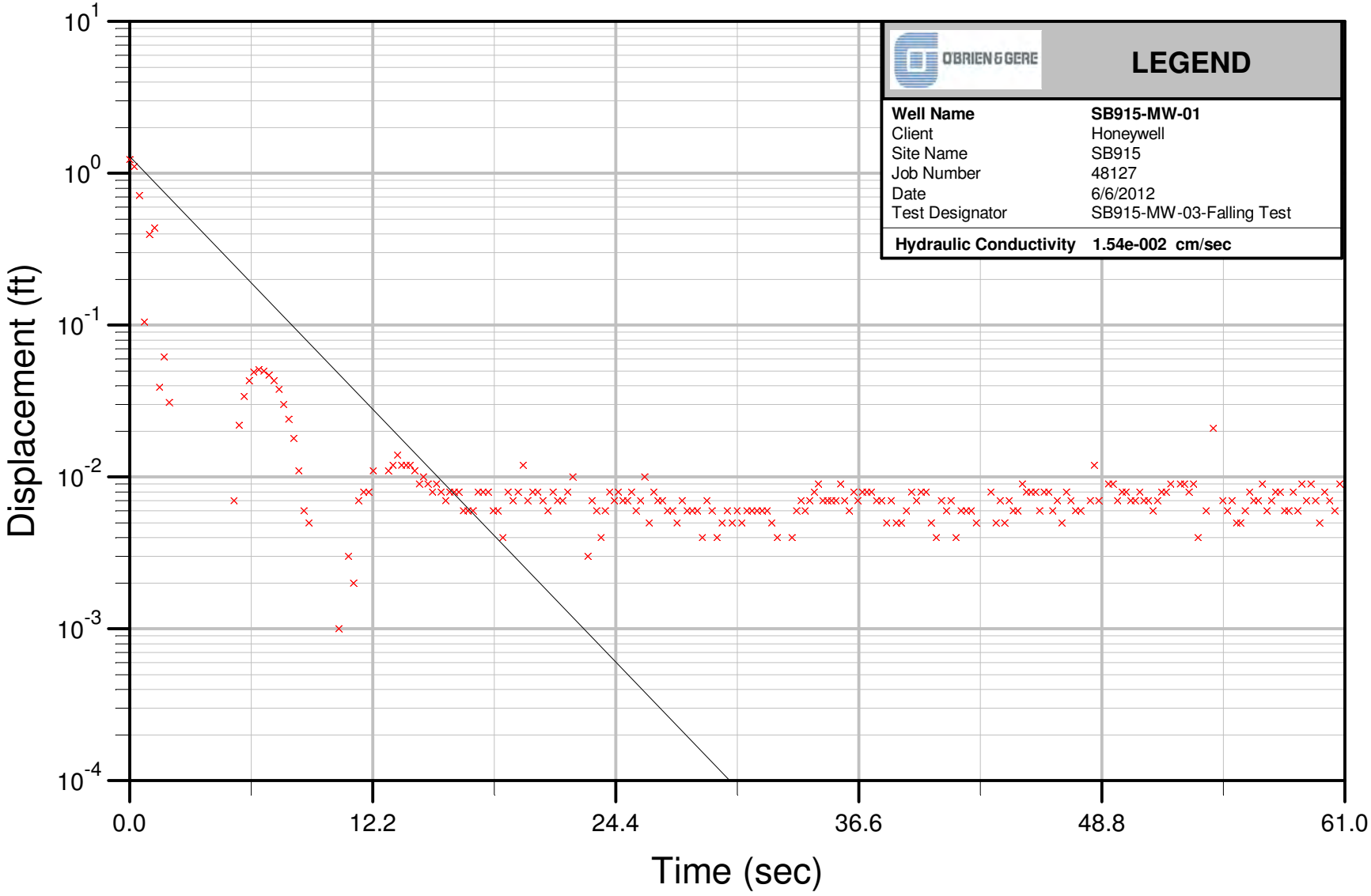
Bouwer & Rice


LEGEND
Well Name SB915-MW-01
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/6/2012
Test Designator SB915-MW-01-Falling Test
Hydraulic Conductivity 9.50e-004 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.00
1270.20
2540.40
3810.60
5080.80
6351.00
Time (sec)

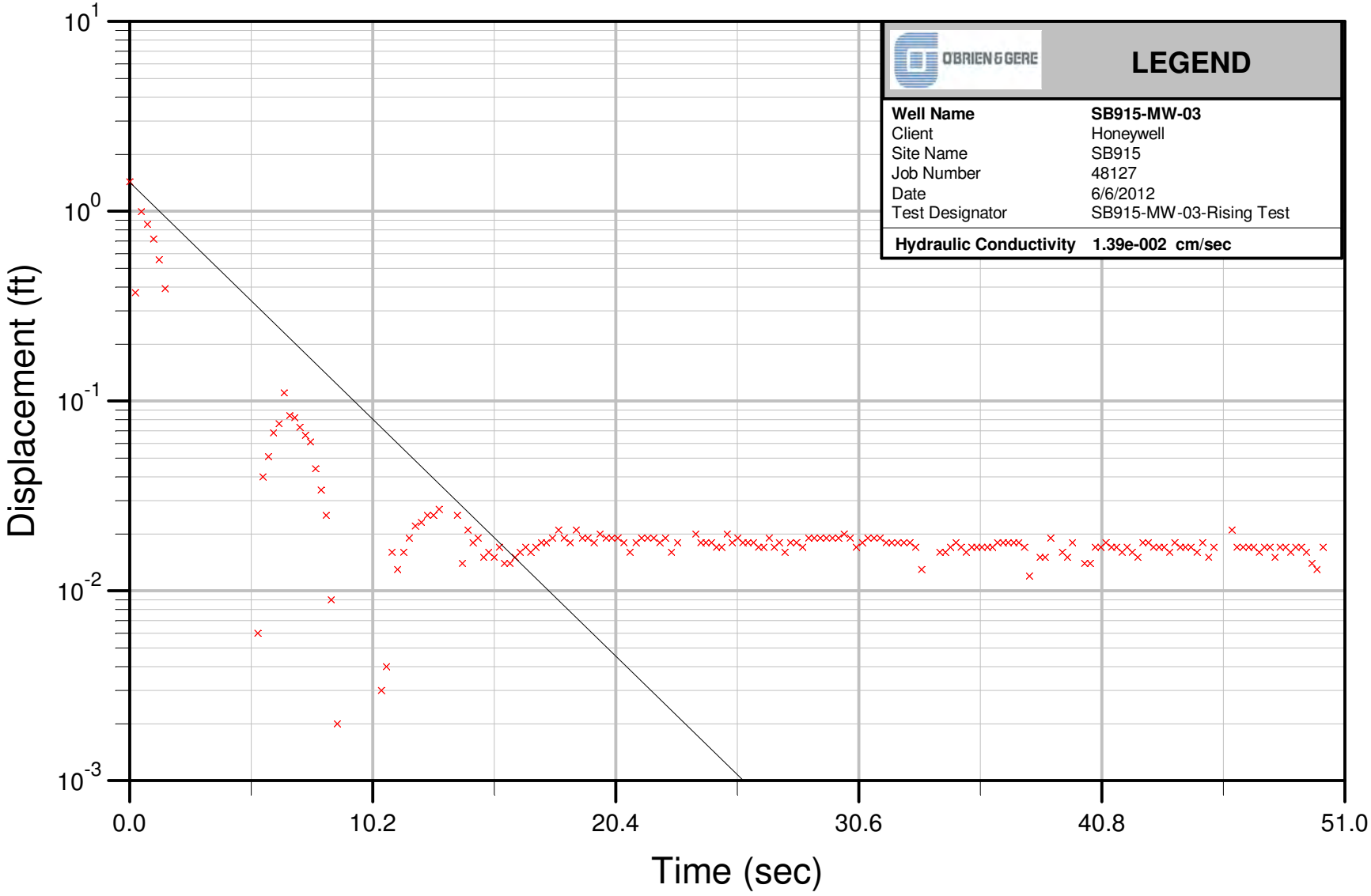
Bouwer & Rice


LEGEND
Well Name SB915-MW-01
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/6/2012
Test Designator SB915-MW-01-Rising Test
Hydraulic Conductivity 9.25e-004 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
3022.800
6045.600
9068.400
12091.200
15114.000
Time (sec)

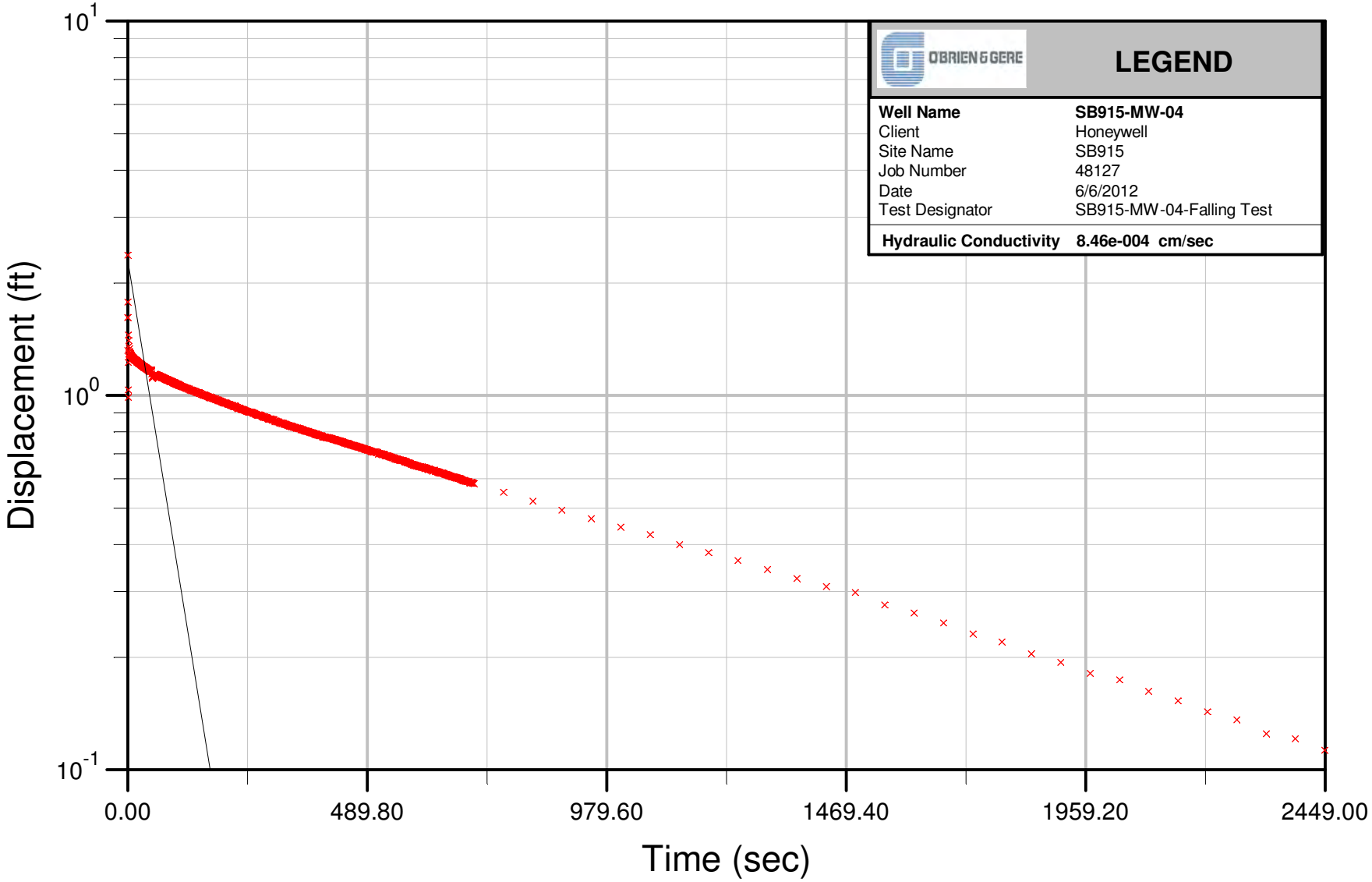
Bouwer & Rice


LEGEND
Well Name SB915-MW-01
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/6/2012
Test Designator SB915-MW-03-Falling Test
Hydraulic Conductivity 1.54e-002 cm/sec
Displacement (ft)
Time (sec)
0.0
12.2
24.4
36.6
48.8
61.0

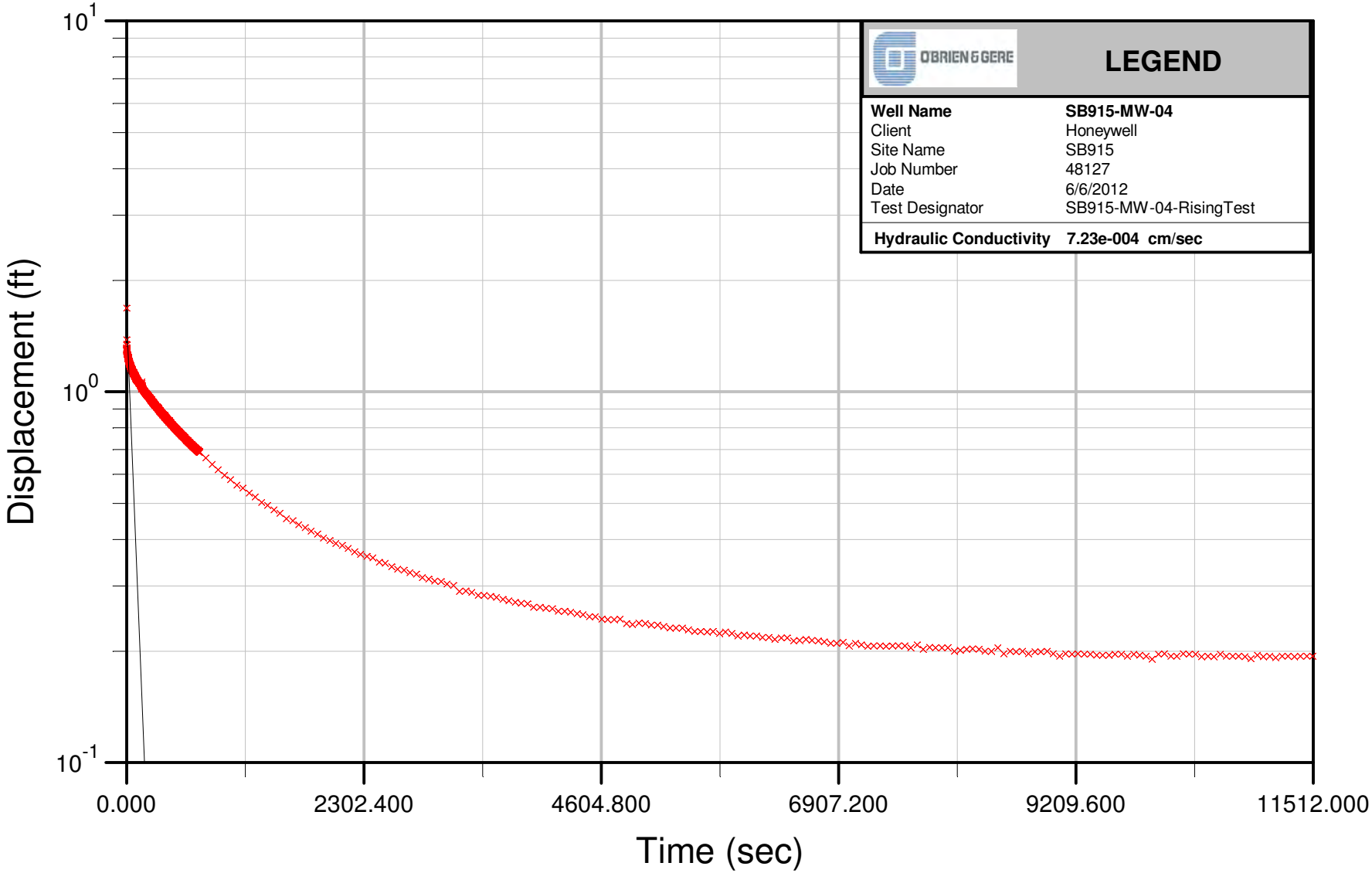
Bouwer & Rice


LEGEND
Well Name SB915-MW-03
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/6/2012
Test Designator SB915-MW-03-Rising Test
Hydraulic Conductivity 1.39e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
10.2
20.4
30.6
40.8
51.0

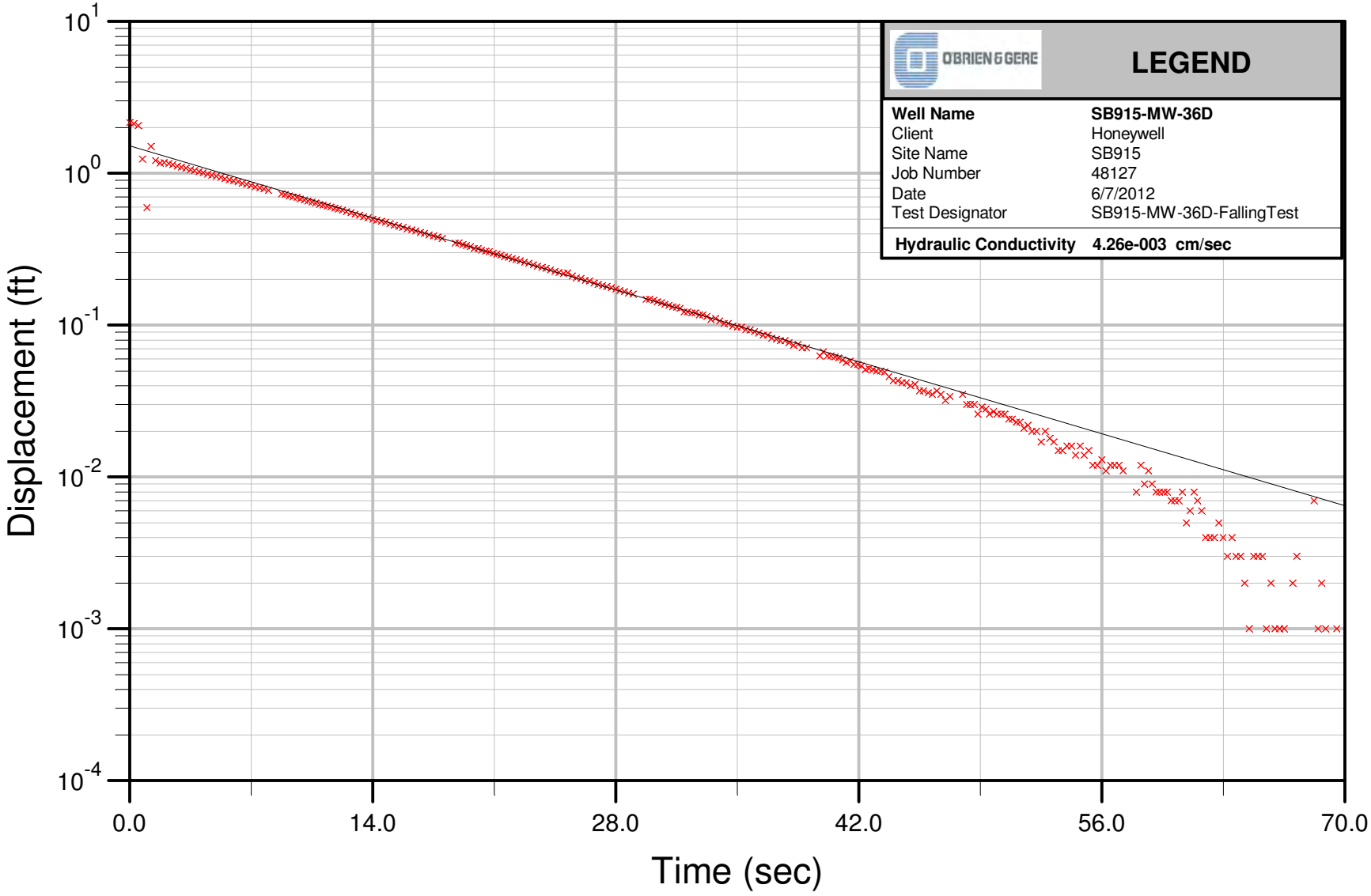
Bouwer & Rice


LEGEND
Well Name SB915-MW-04
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/6/2012
Test Designator SB915-MW-04-Falling Test
Hydraulic Conductivity 8.46e-004 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.00
489.80
979.60
1469.40
1959.20
2449.00
Time (sec)

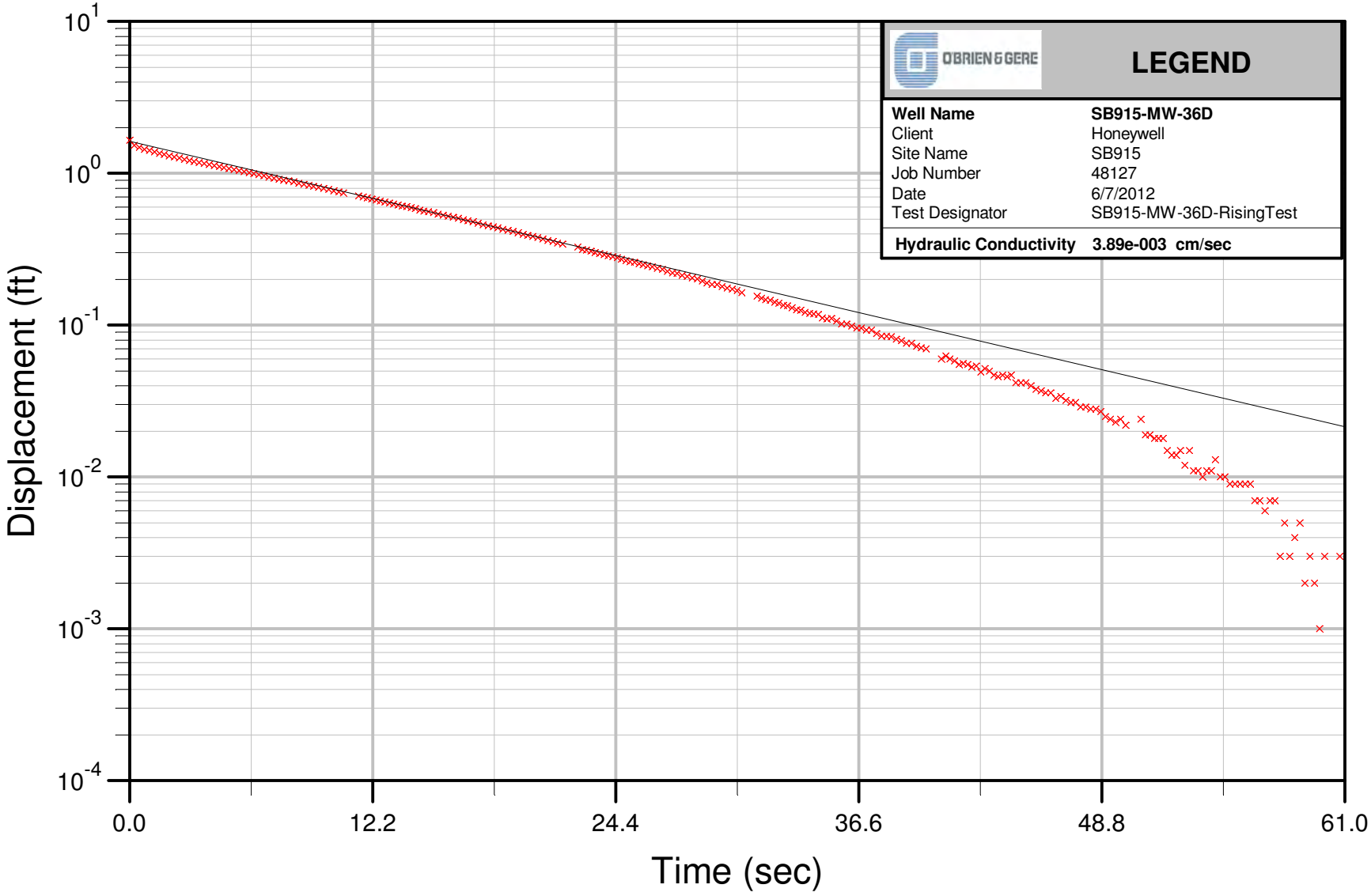
Bouwer & Rice


LEGEND
Well Name SB915-MW-04
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/6/2012
Test Designator SB915-MW-04-RisingTest
Hydraulic Conductivity 7.23e-004 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
0.000
2302.400
4604.800
6907.200
9209.600
11512.000
Time (sec)

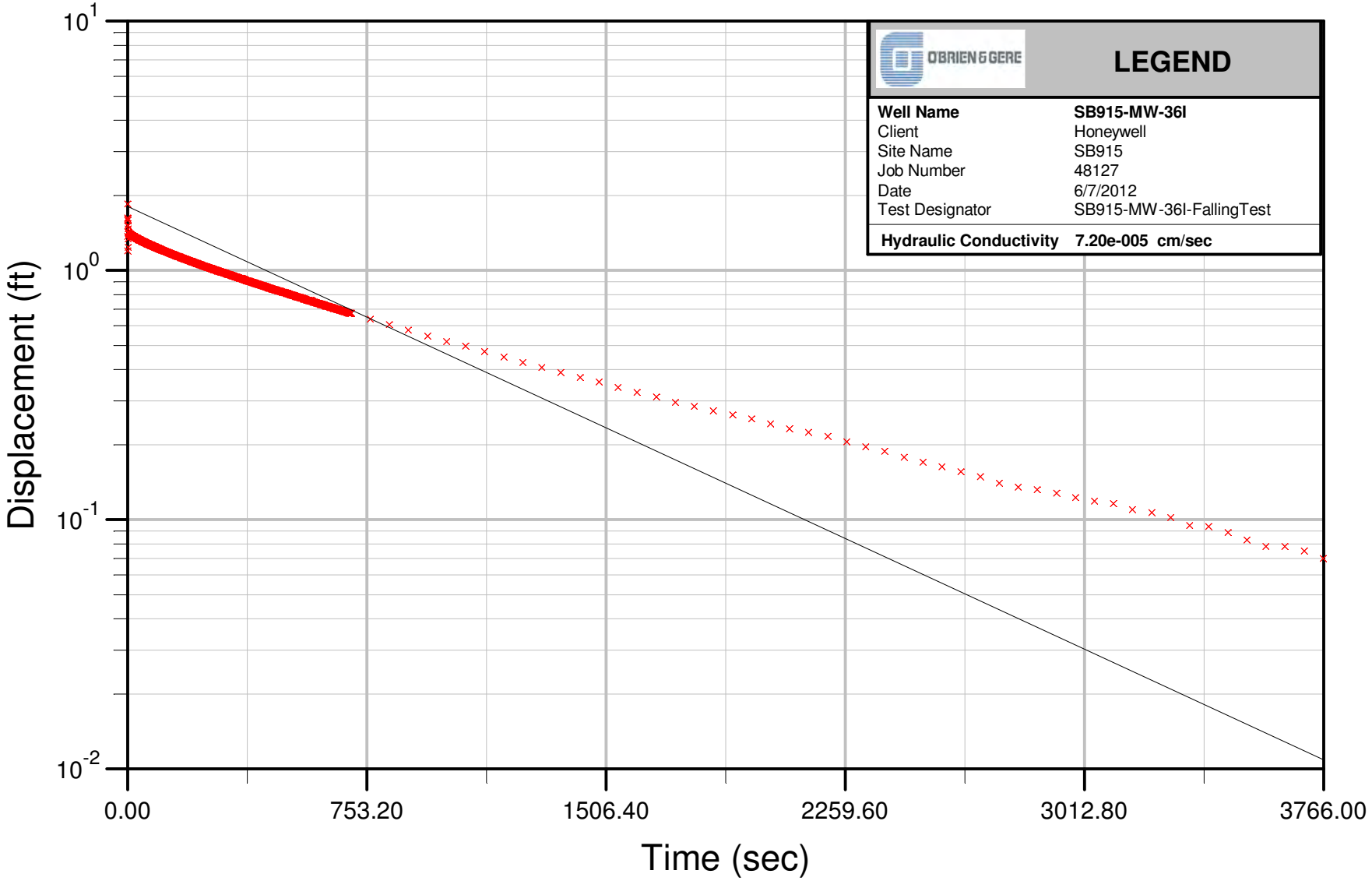
Bouwer & Rice


LEGEND
Well Name SB915-MW-36D
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/7/2012
Test Designator SB915-MW-36D-FallingTest
Hydraulic Conductivity 4.26e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
14.0
28.0
42.0
56.0
70.0

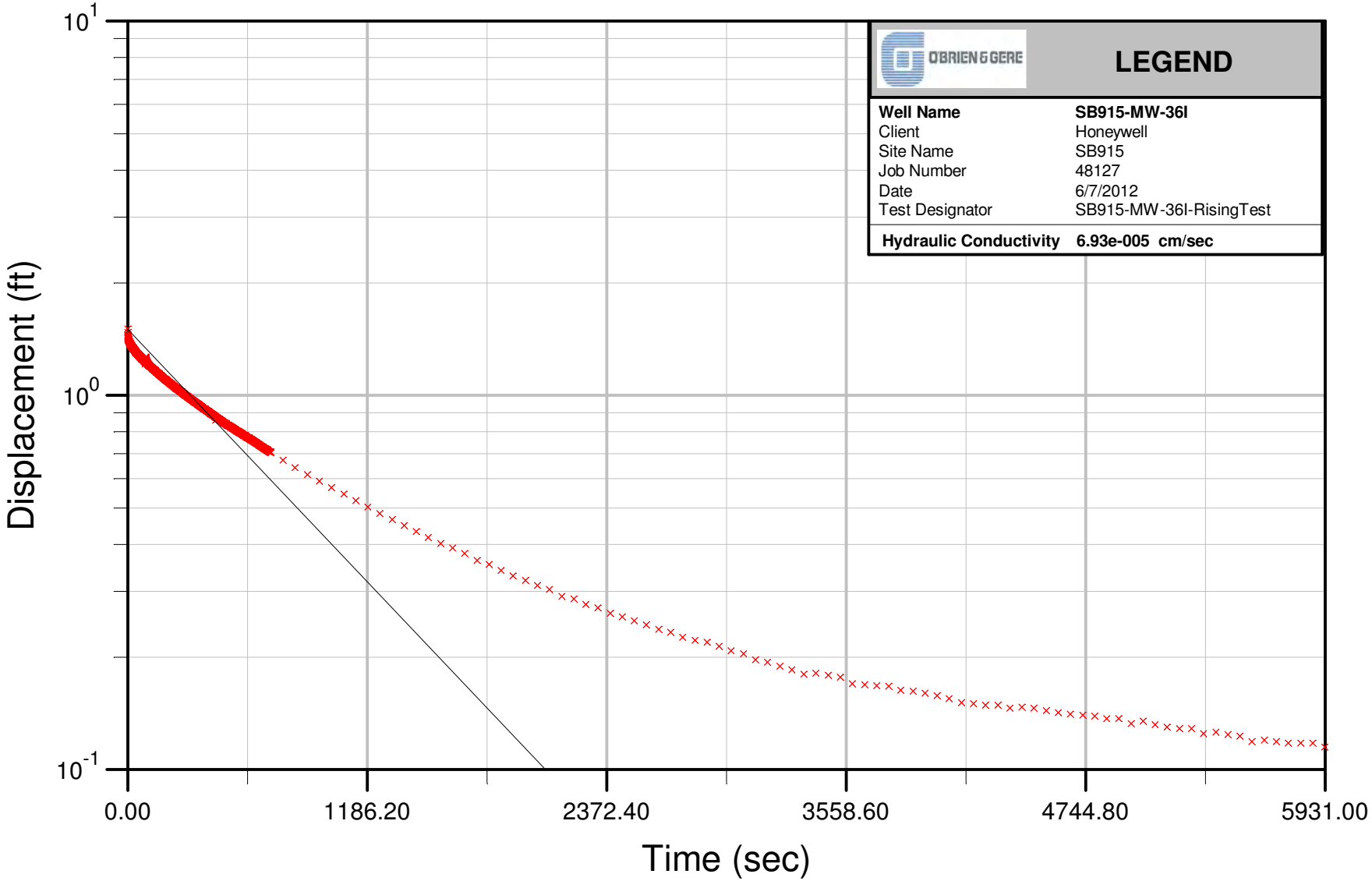
Bouwer & Rice


LEGEND
Well Name SB915-MW-36D
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/7/2012
Test Designator SB915-MW-36D-RisingTest
Hydraulic Conductivity 3.89e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
12.2
24.4
36.6
48.8
61.0

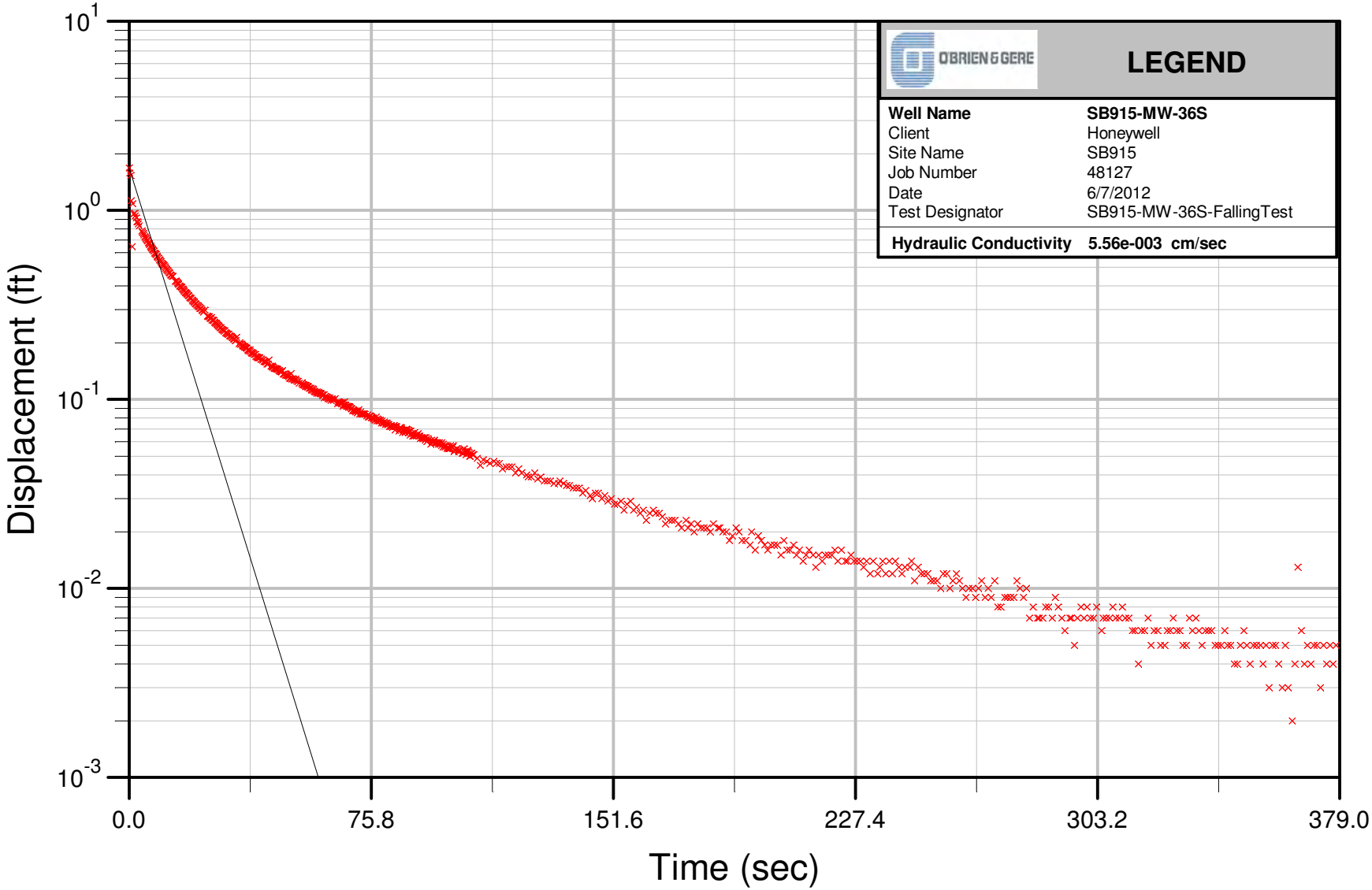
Bouwer & Rice


LEGEND
Well Name SB915-MW-36I
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/7/2012
Test Designator SB915-MW-36I-FallingTest
Hydraulic Conductivity 7.20e-005 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
753.20
1506.40
2259.60
3012.80
3766.00

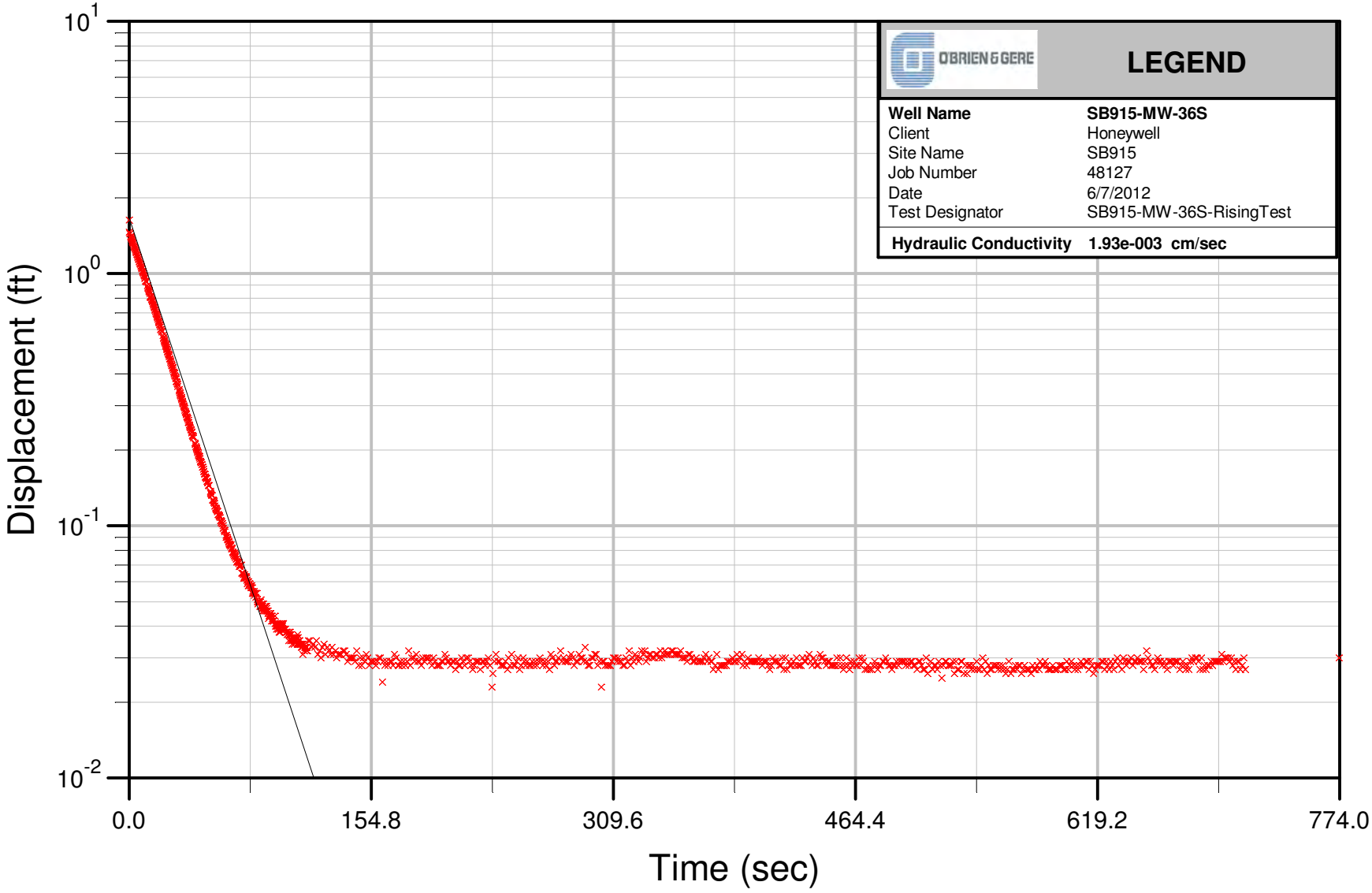
Bouwer & Rice


LEGEND
OBRIEN&GERE
Well Name SB915-MW-36I
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/7/2012
Test Designator SB915-MW-36I-RisingTest
Hydraulic Conductivity 6.93e-005 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.00
1186.20
2372.40
3558.60
4744.80
5931.00
Time (sec)

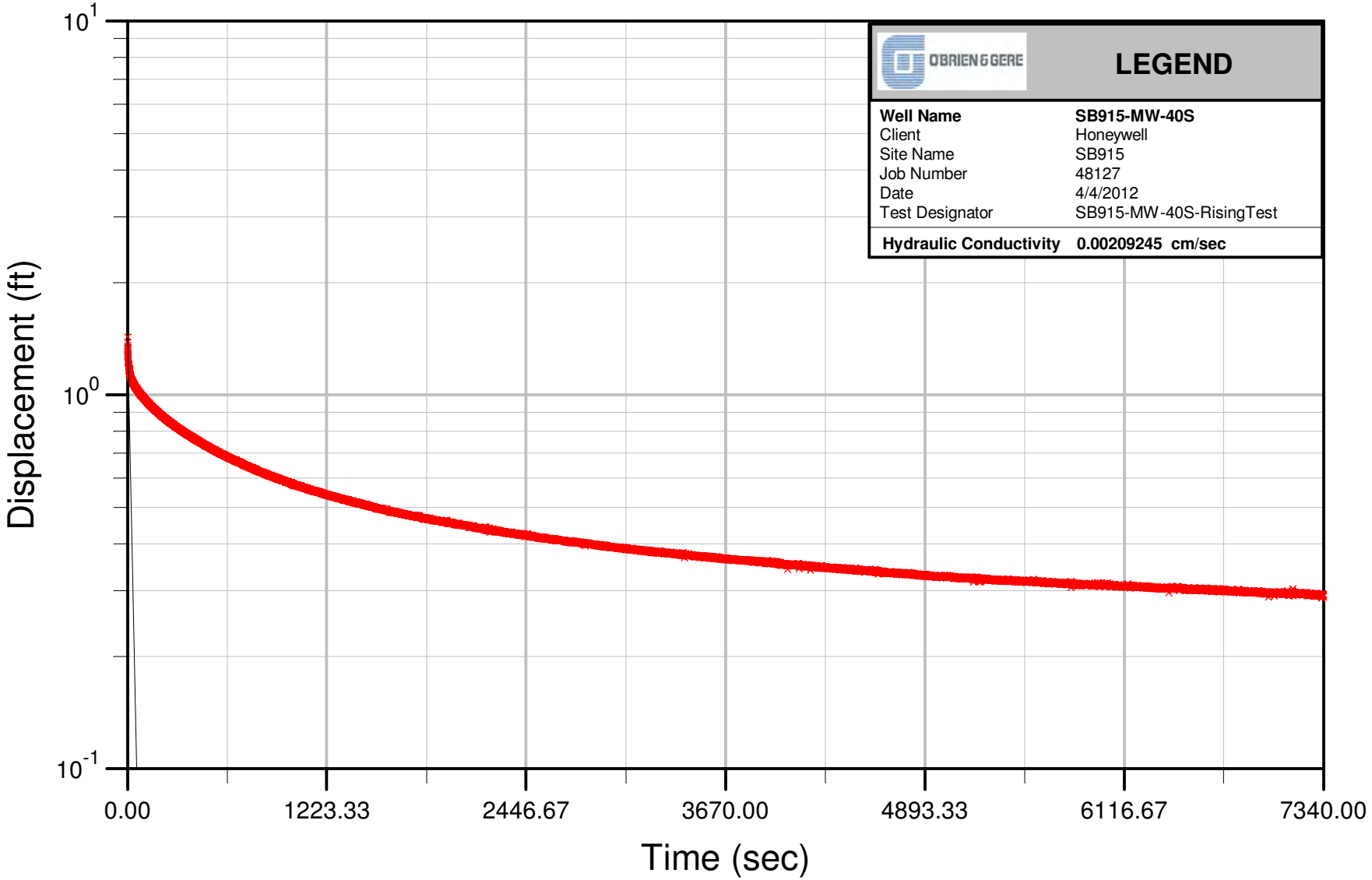
Bouwer & Rice


LEGEND
Well Name SB915-MW-36S
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/7/2012
Test Designator SB915-MW-36S-FallingTest
Hydraulic Conductivity 5.56e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
75.8
151.6
227.4
303.2
379.0

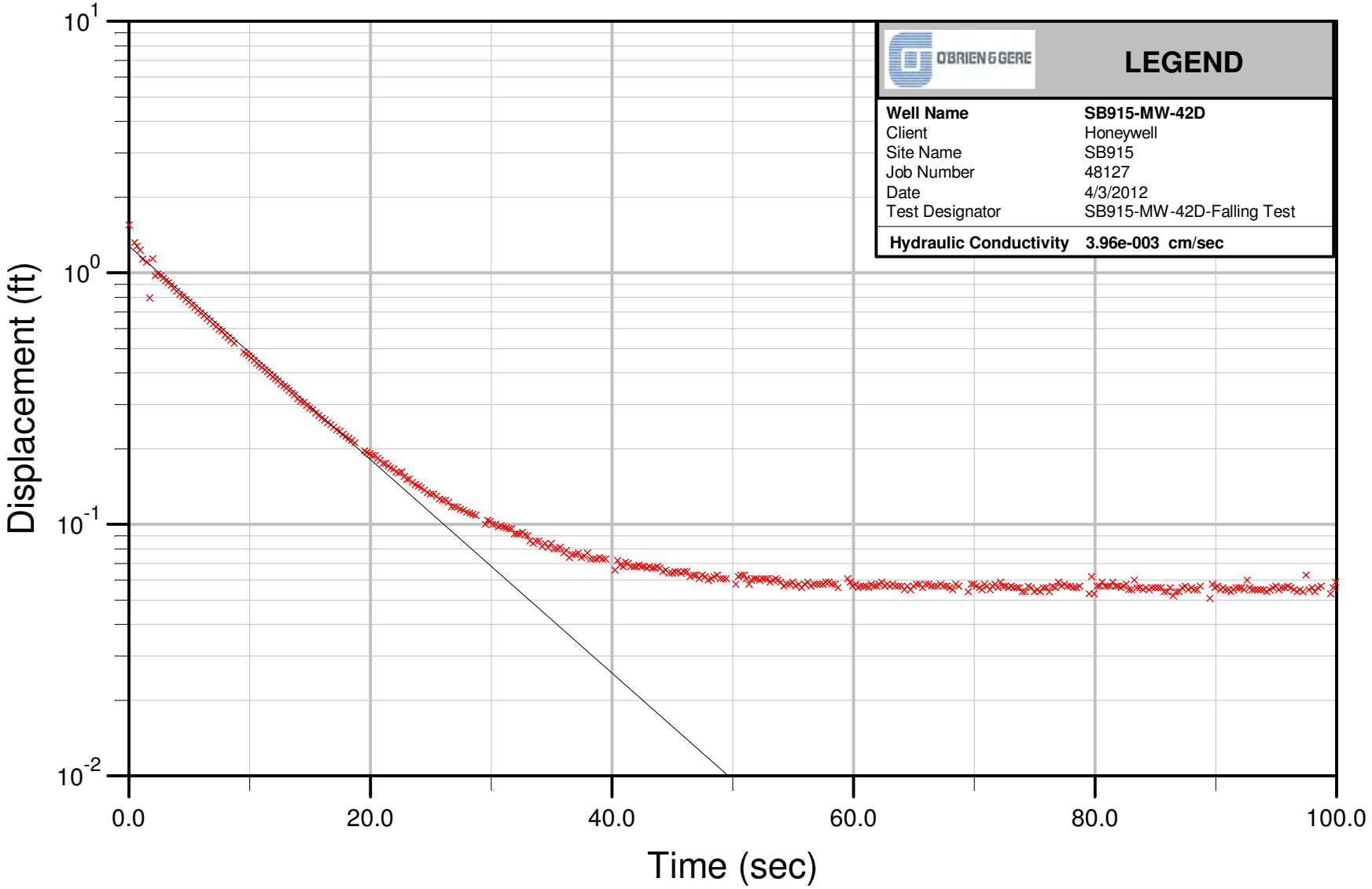
Bouwer & Rice


LEGEND
Well Name SB915-MW-36S
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/7/2012
Test Designator SB915-MW-36S-RisingTest
Hydraulic Conductivity 1.93e-003 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
154.8
309.6
464.4
619.2
774.0
Time (sec)

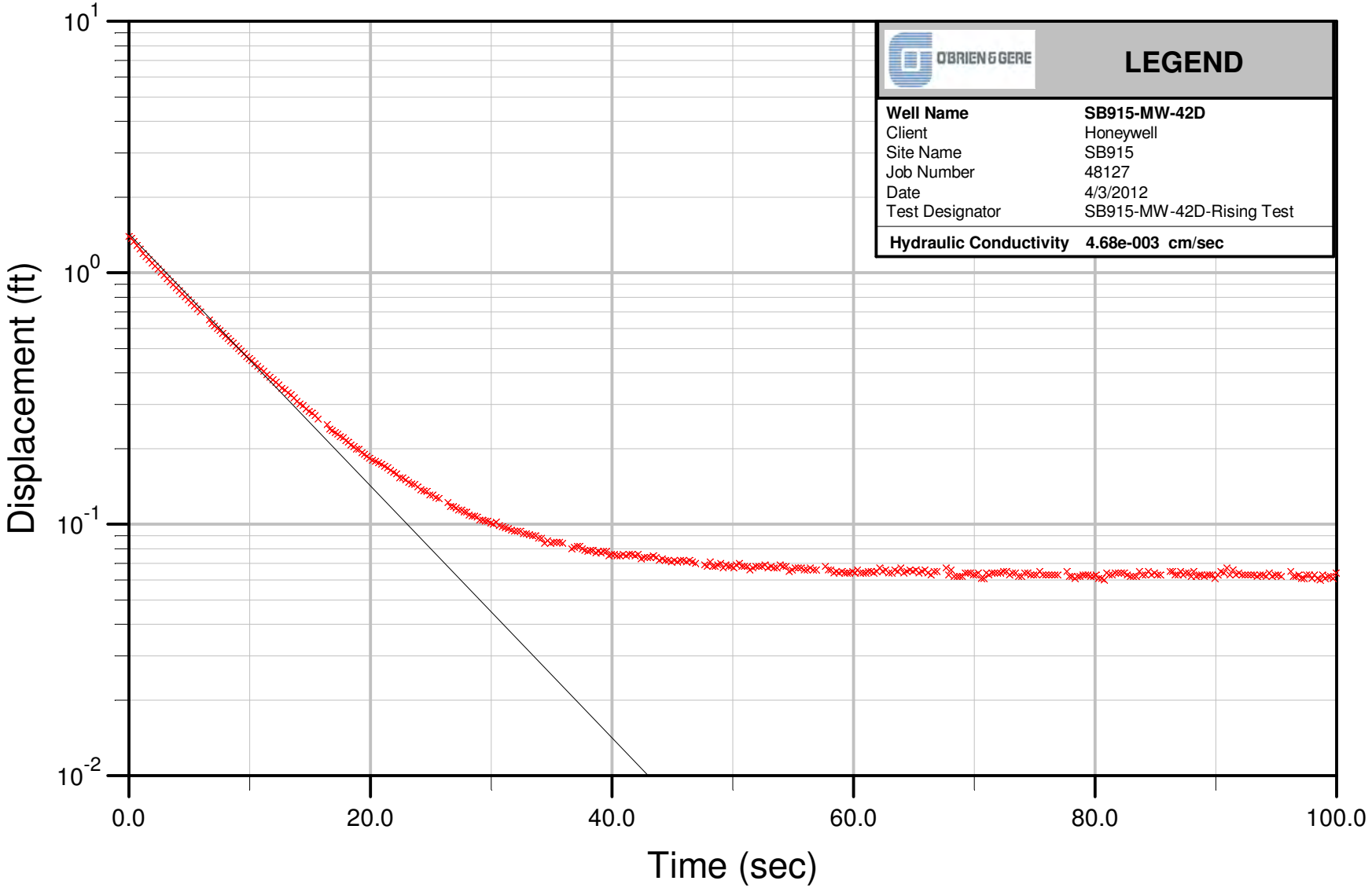
Bouwer & Rice


LEGEND
Well Name SB915-MW-40S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/4/2012
Test Designator SB915-MW-40S-RisingTest
Hydraulic Conductivity 0.00209245 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.00
1223.33
2446.67
3670.00
4893.33
6116.67
7340.00
Time (sec)

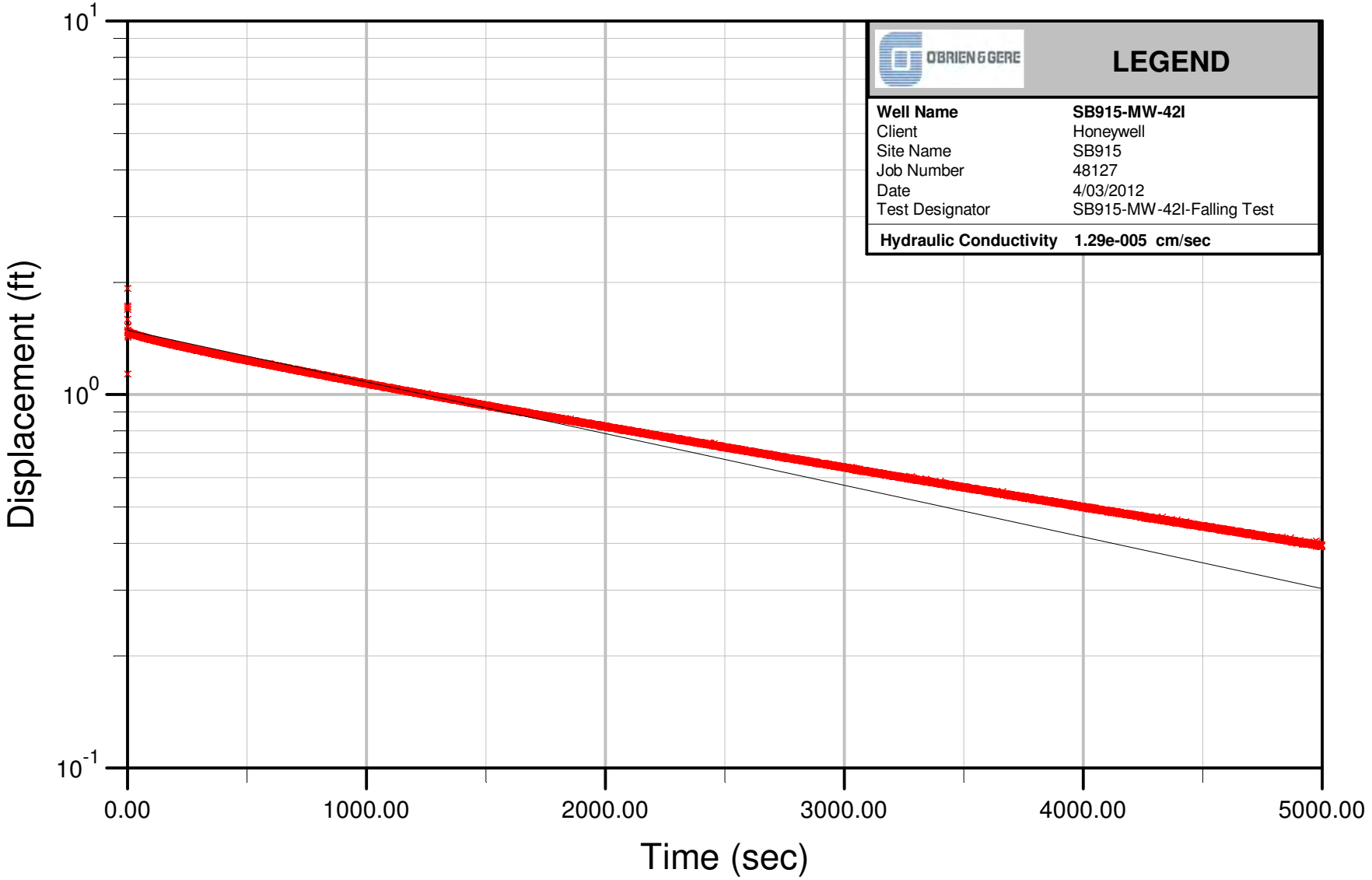
Bouwer & Rice


LEGEND
Well Name SB915-MW-42D
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/3/2012
Test Designator SB915-MW-42D-Falling Test
Hydraulic Conductivity 3.96e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
20.0
40.0
60.0
80.0
100.0

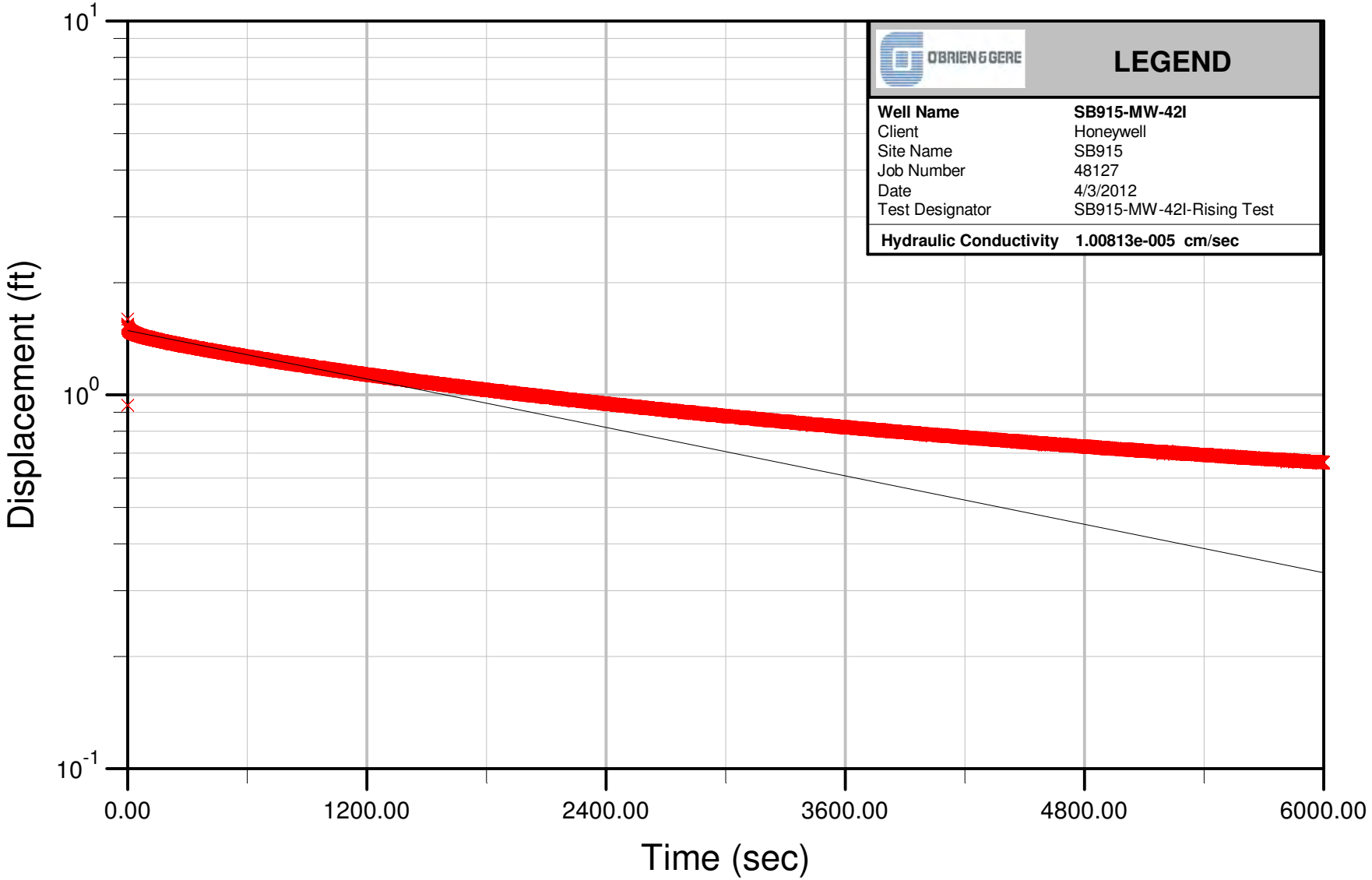
Bouwer & Rice


LEGEND
Well Name SB915-MW-42D
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/3/2012
Test Designator SB915-MW-42D-Rising Test
Hydraulic Conductivity 4.68e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
20.0
40.0
60.0
80.0
100.0

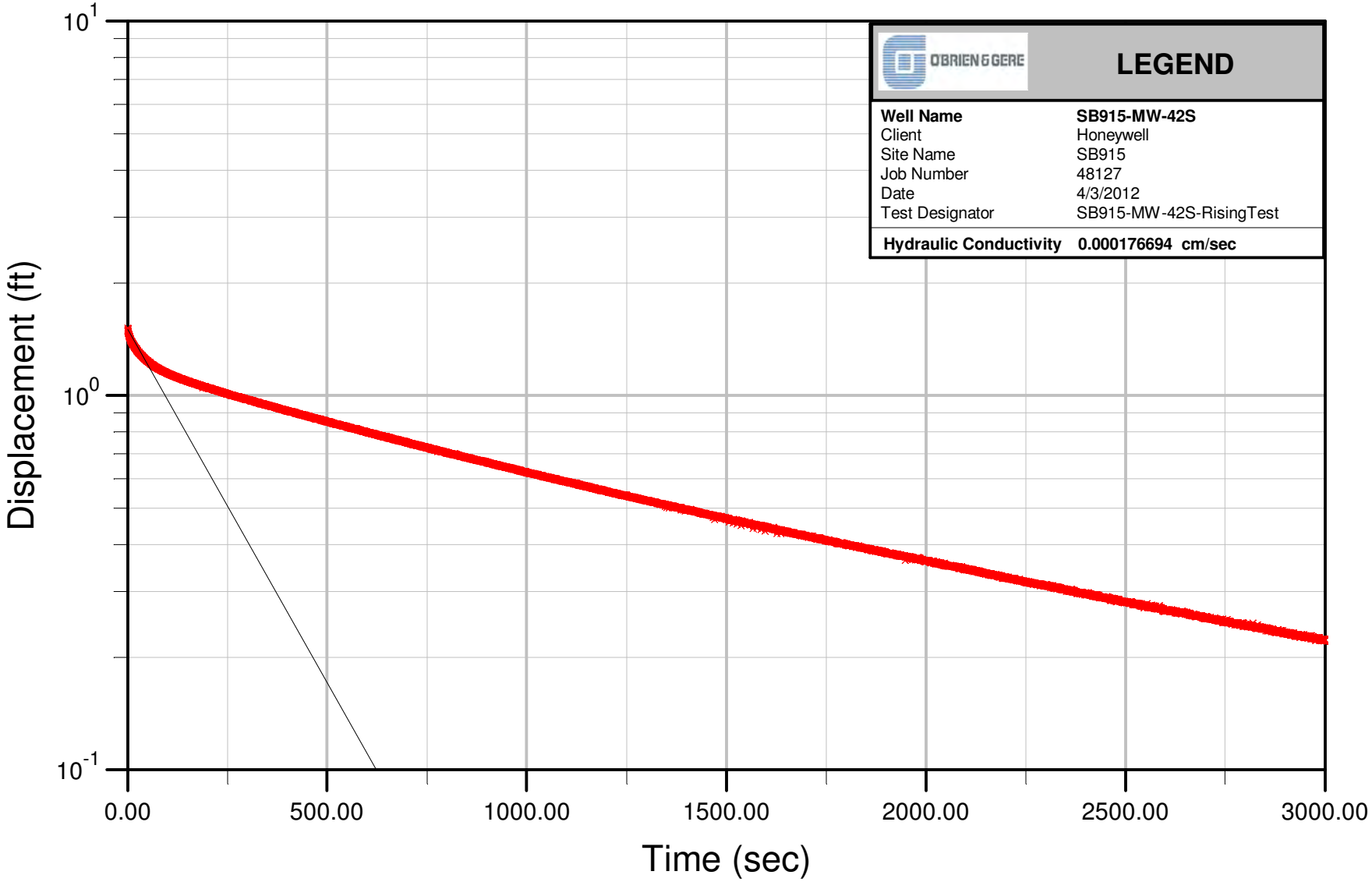
Bouwer & Rice


LEGEND
Well Name SB915-MW-42I
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/03/2012
Test Designator SB915-MW-42I-Falling Test
Hydraulic Conductivity 1.29e-005 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
1000.00
2000.00
3000.00
4000.00
5000.00

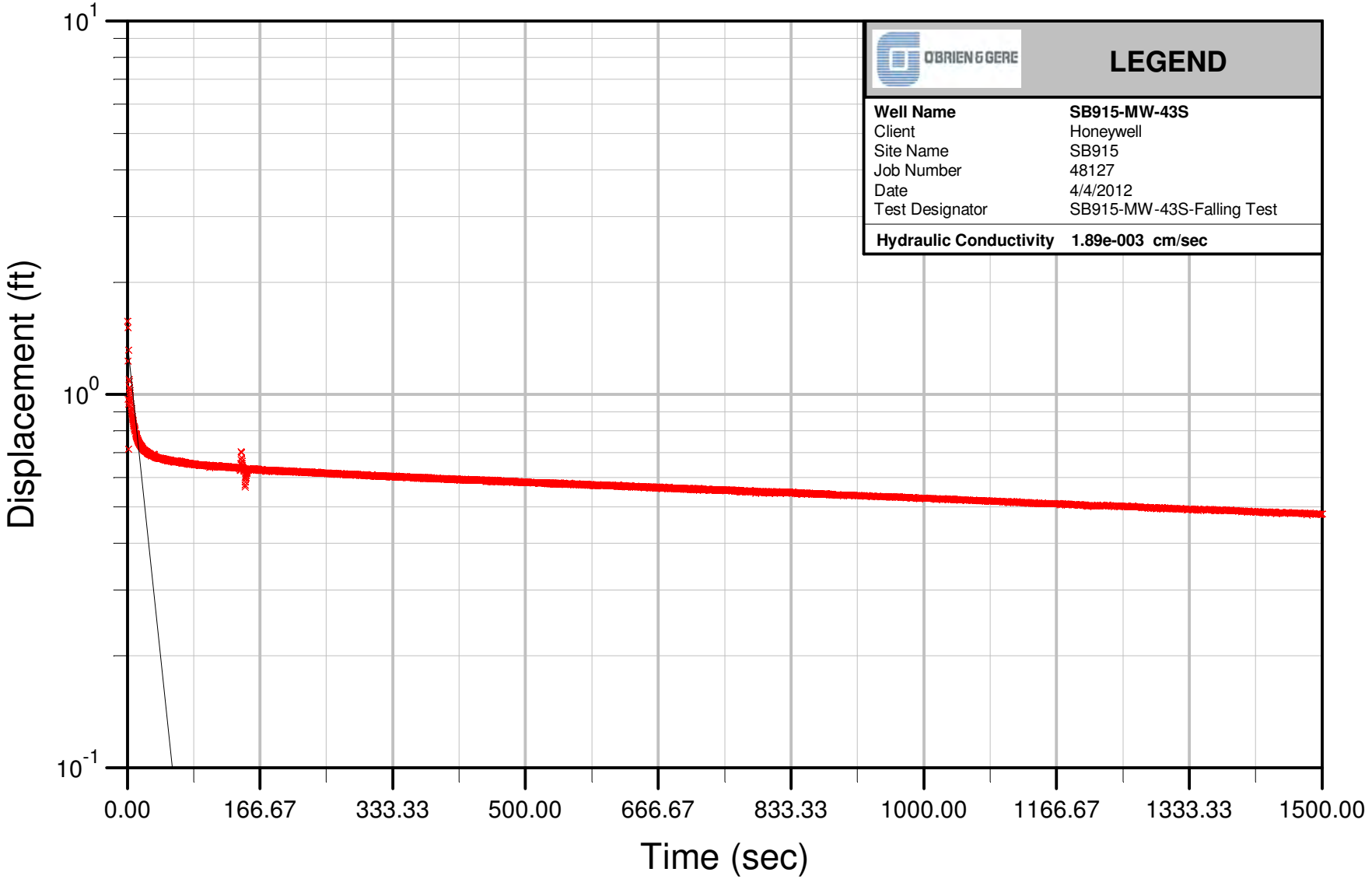
Bouwer & Rice


LEGEND
Well Name SB915-MW-42I
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/3/2012
Test Designator SB915-MW-42I-Rising Test
Hydraulic Conductivity 1.00813e-005 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^{-1}
0.00
1200.00
2400.00
3600.00
4800.00
6000.00

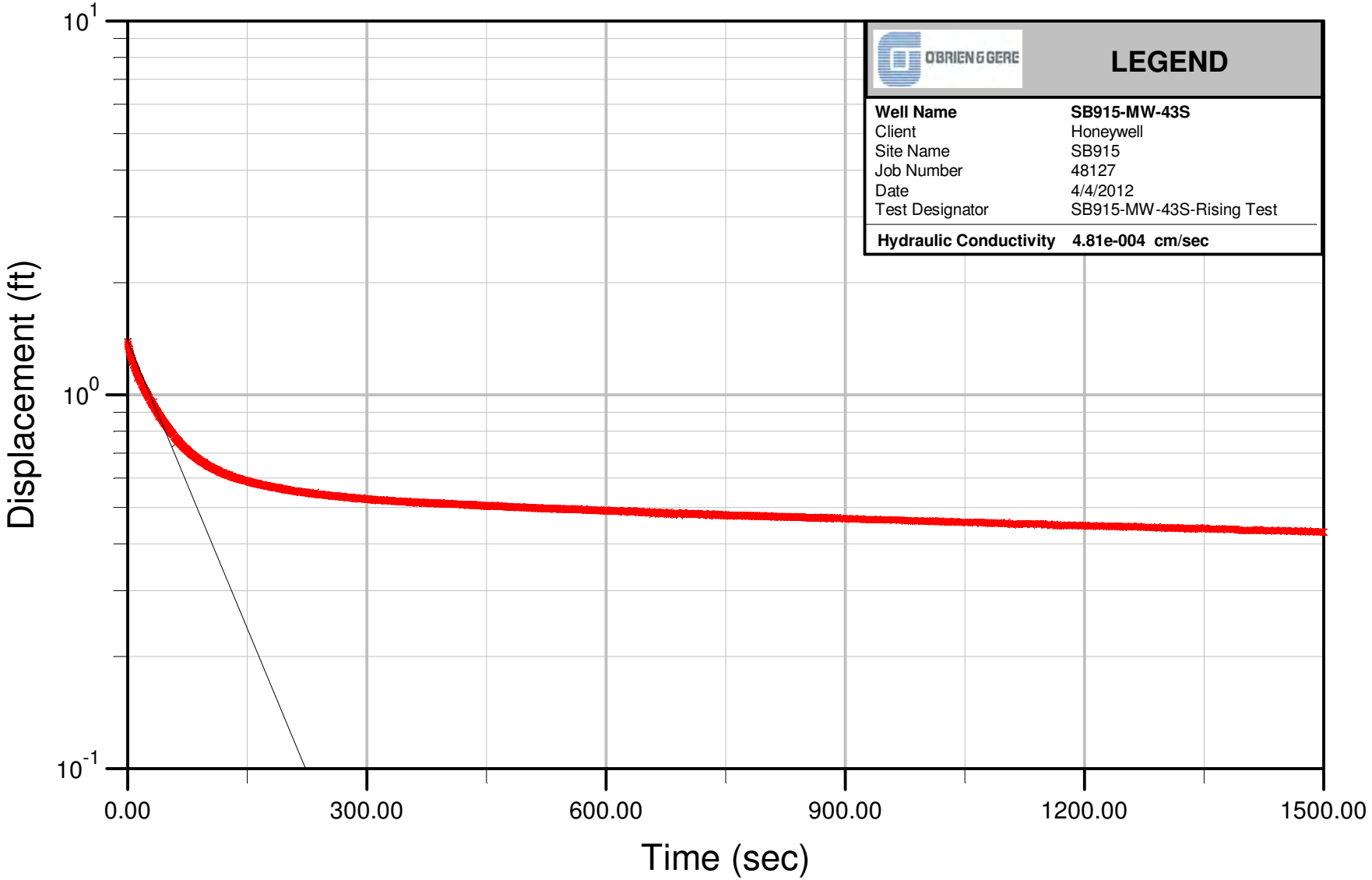
Bouwer & Rice


LEGEND
Well Name SB915-MW-42S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/3/2012
Test Designator SB915-MW-42S-RisingTest
Hydraulic Conductivity 0.000176694 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
500.00
1000.00
1500.00
2000.00
2500.00
3000.00

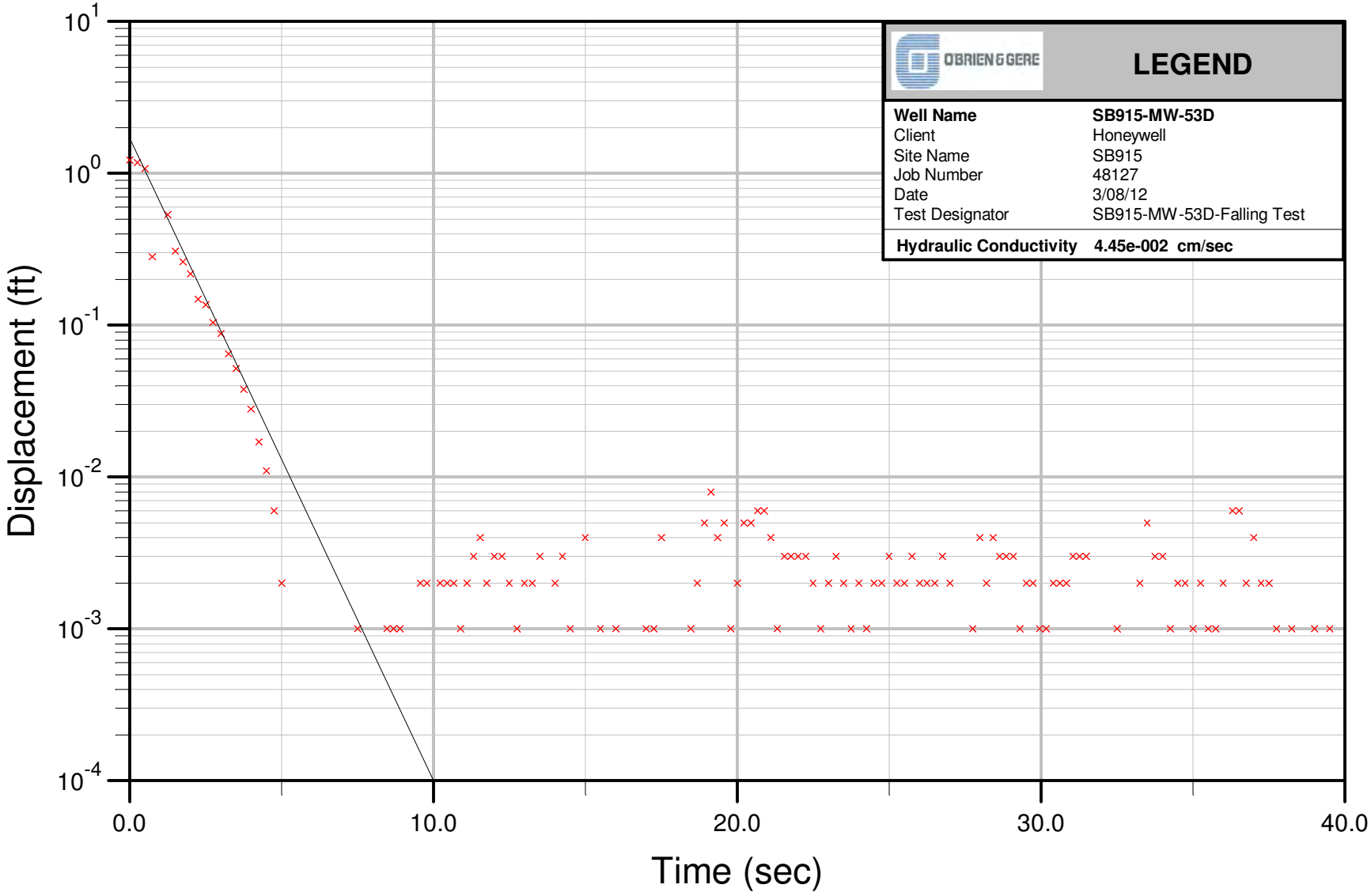
Bouwer & Rice


LEGEND
Well Name SB915-MW-43S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/4/2012
Test Designator SB915-MW-43S-Falling Test
Hydraulic Conductivity 1.89e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
166.67
333.33
500.00
666.67
833.33
1000.00
1166.67
1333.33
1500.00

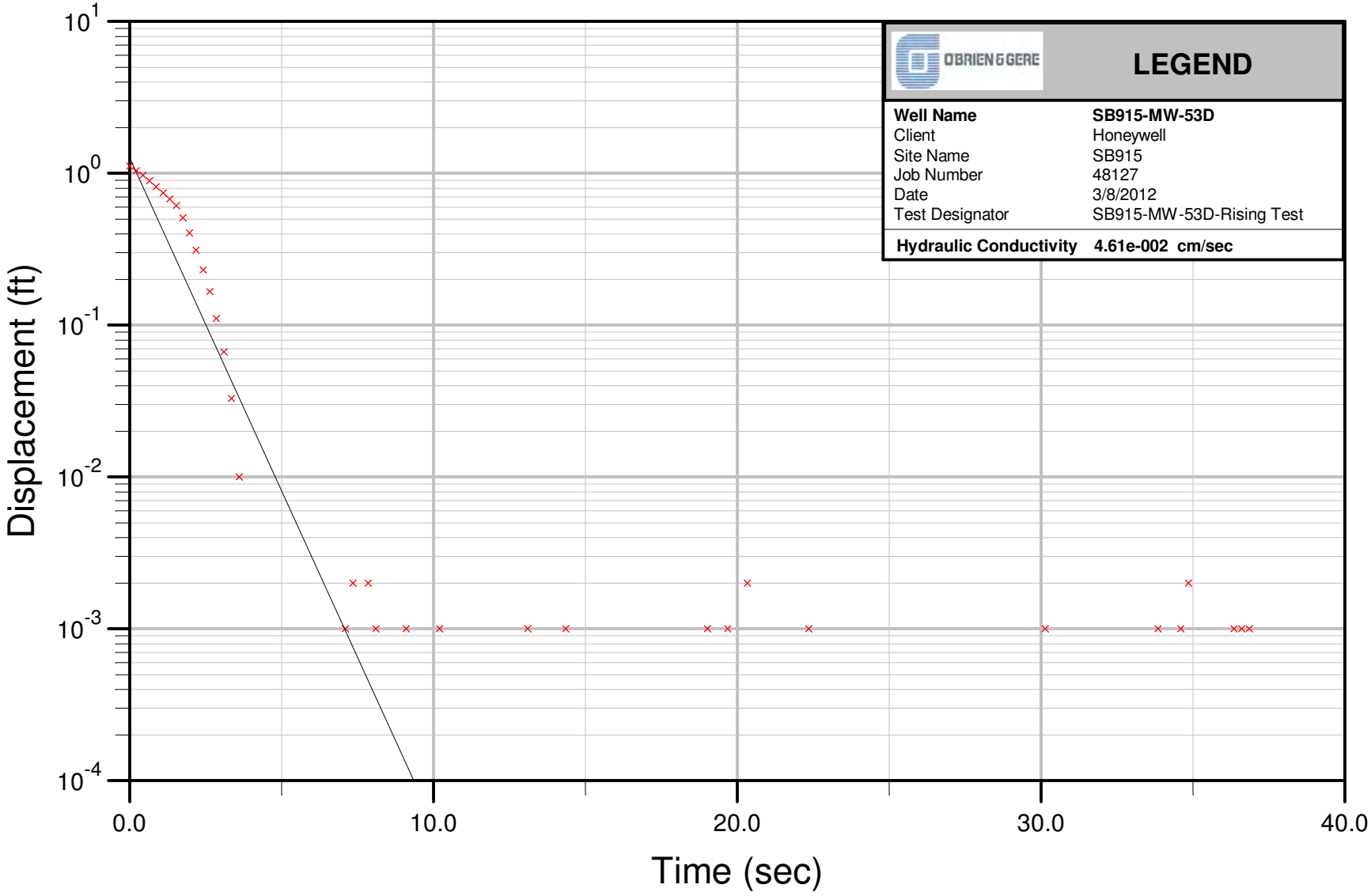
Bouwer & Rice


LEGEND
Well Name SB915-MW-43S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/4/2012
Test Designator SB915-MW-43S-Rising Test
Hydraulic Conductivity 4.81e-004 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
300.00
600.00
900.00
1200.00
1500.00

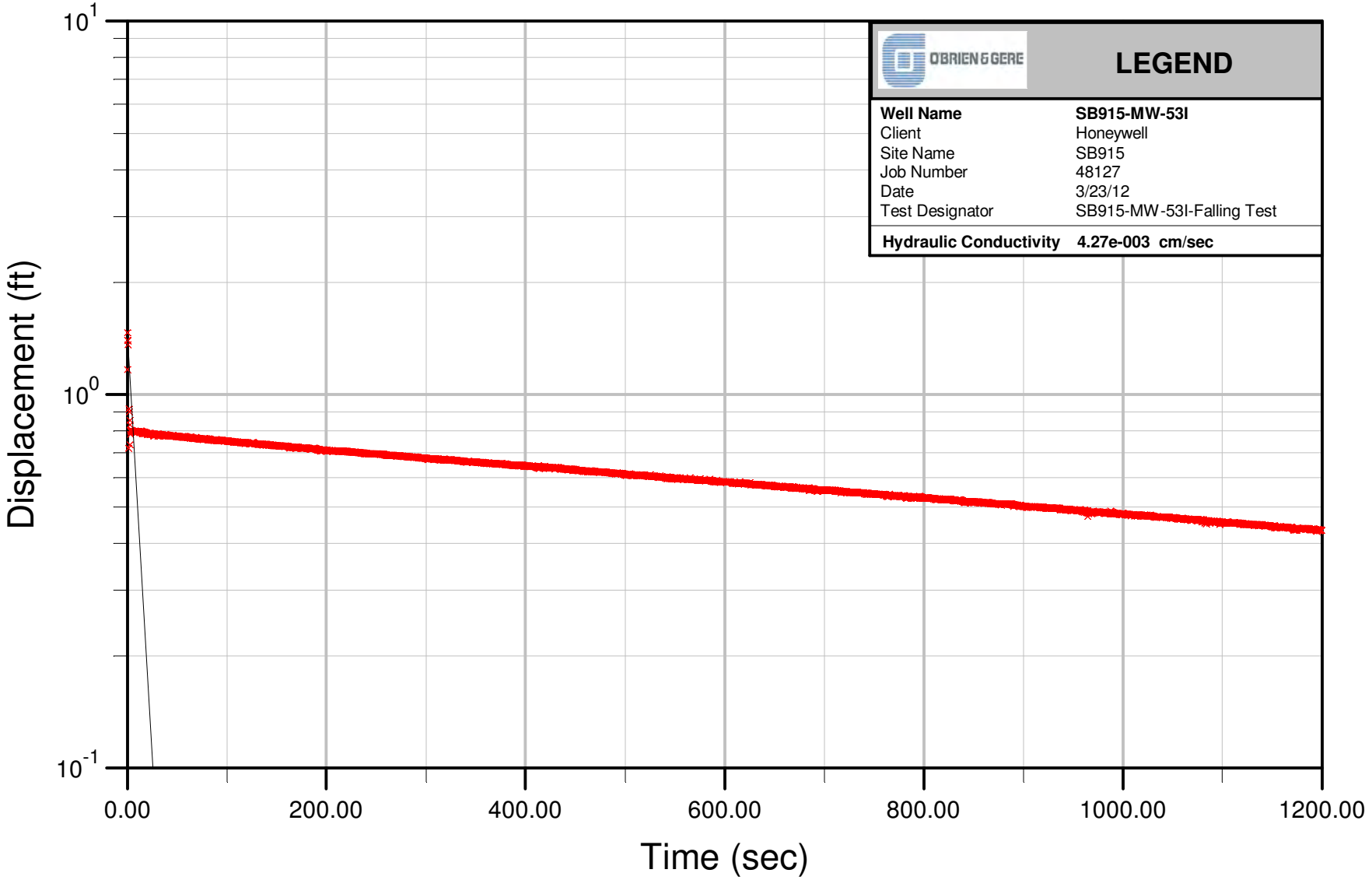
Bouwer & Rice


LEGEND
Well Name SB915-MW-53D
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/08/12
Test Designator SB915-MW-53D-Falling Test
Hydraulic Conductivity 4.45e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
10.0
20.0
30.0
40.0

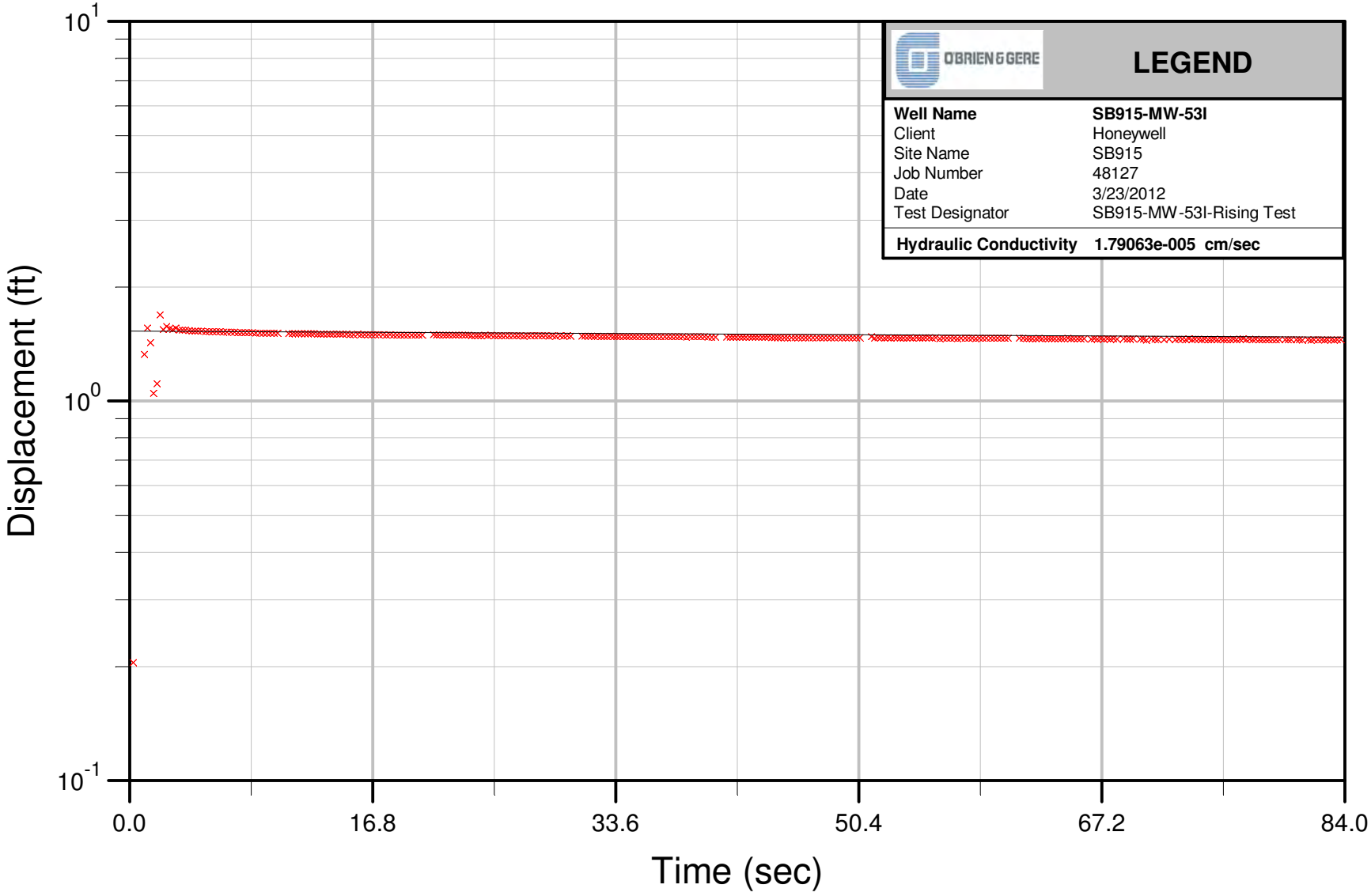
Bouwer & Rice


LEGEND
Well Name SB915-MW-53D
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/8/2012
Test Designator SB915-MW-53D-Rising Test
Hydraulic Conductivity 4.61e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
10.0
20.0
30.0
40.0

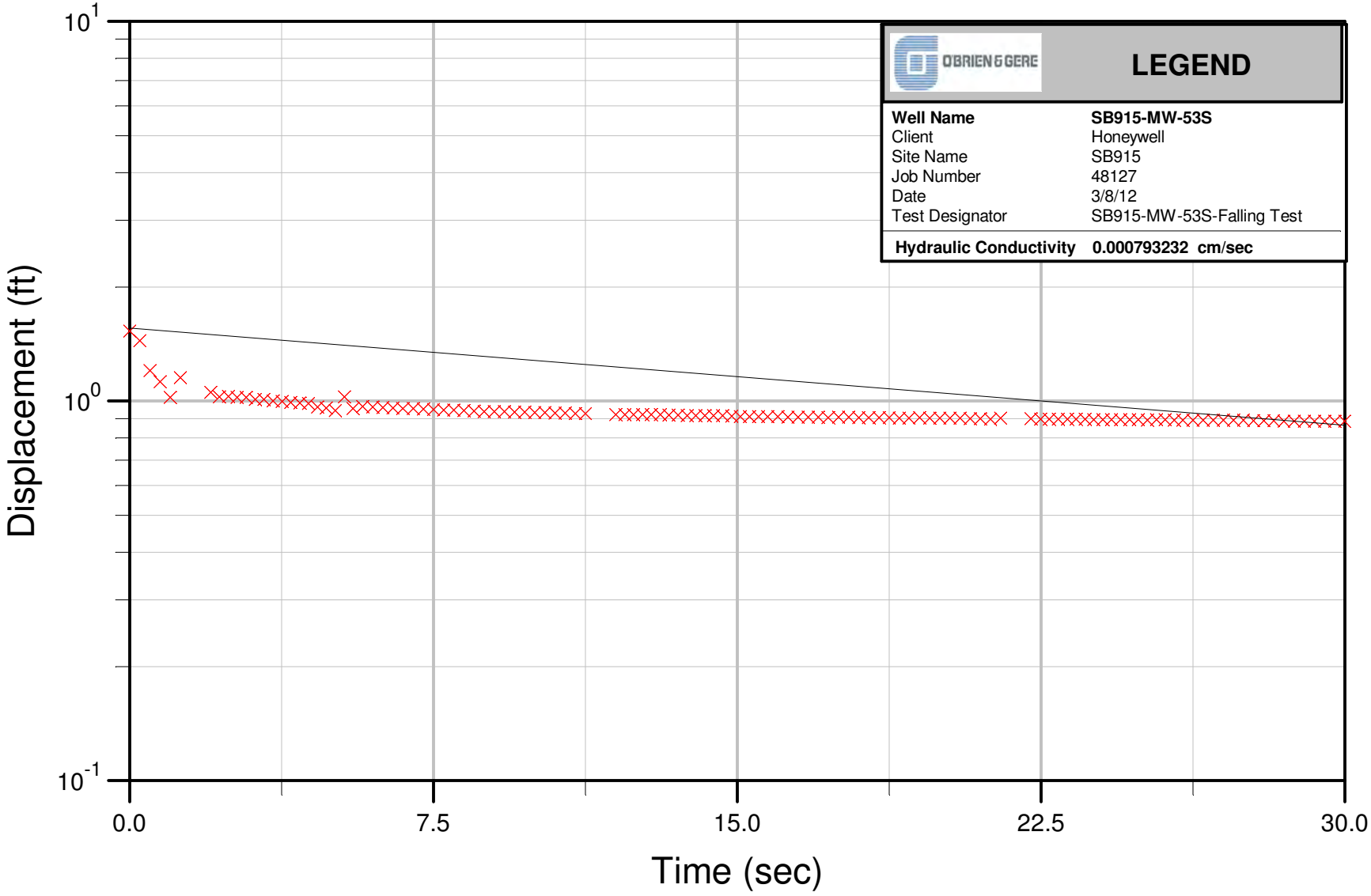
Bouwer & Rice


LEGEND
Well Name SB915-MW-53I
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/23/12
Test Designator SB915-MW-53I-Falling Test
Hydraulic Conductivity 4.27e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
200.00
400.00
600.00
800.00
1000.00
1200.00

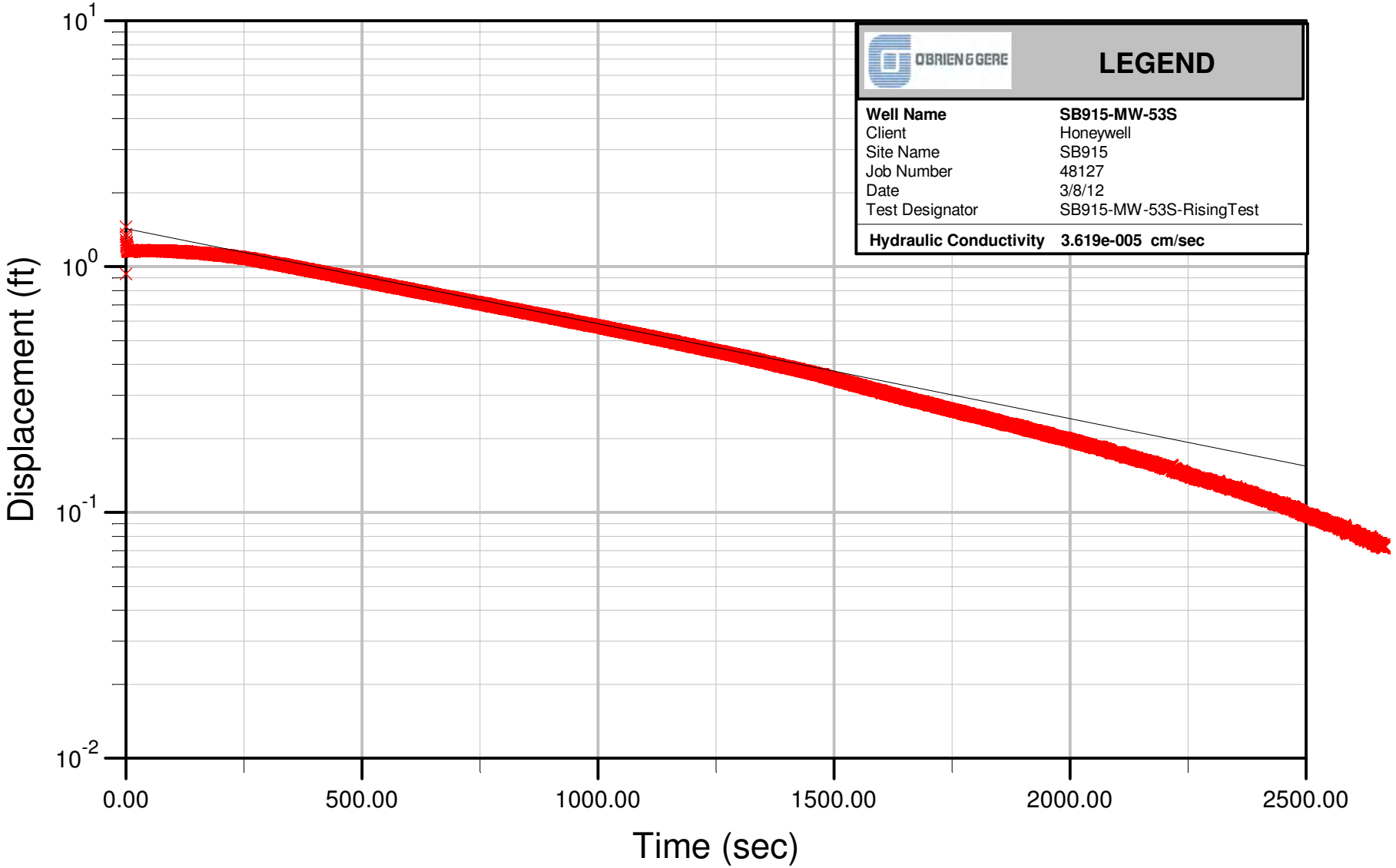
Bouwer & Rice


LEGEND
Well Name SB915-MW-53I
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/23/2012
Test Designator SB915-MW-53I-Rising Test
Hydraulic Conductivity 1.79063e-005 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.0
16.8
33.6
50.4
67.2
84.0
Time (sec)

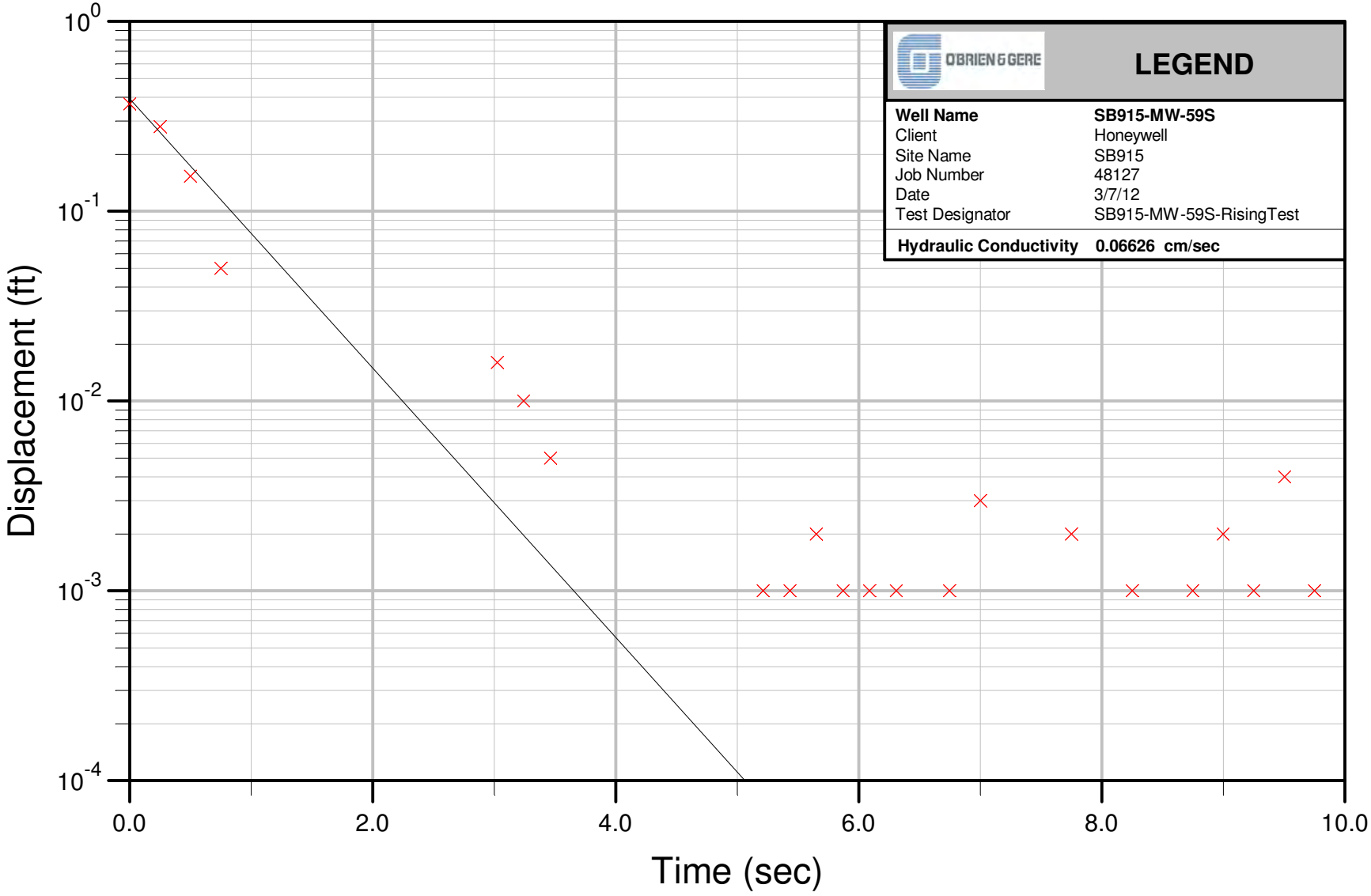
Bouwer & Rice


LEGEND
Well Name SB915-MW-53S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/8/12
Test Designator SB915-MW-53S-Falling Test
Hydraulic Conductivity 0.000793232 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.0
7.5
15.0
22.5
30.0

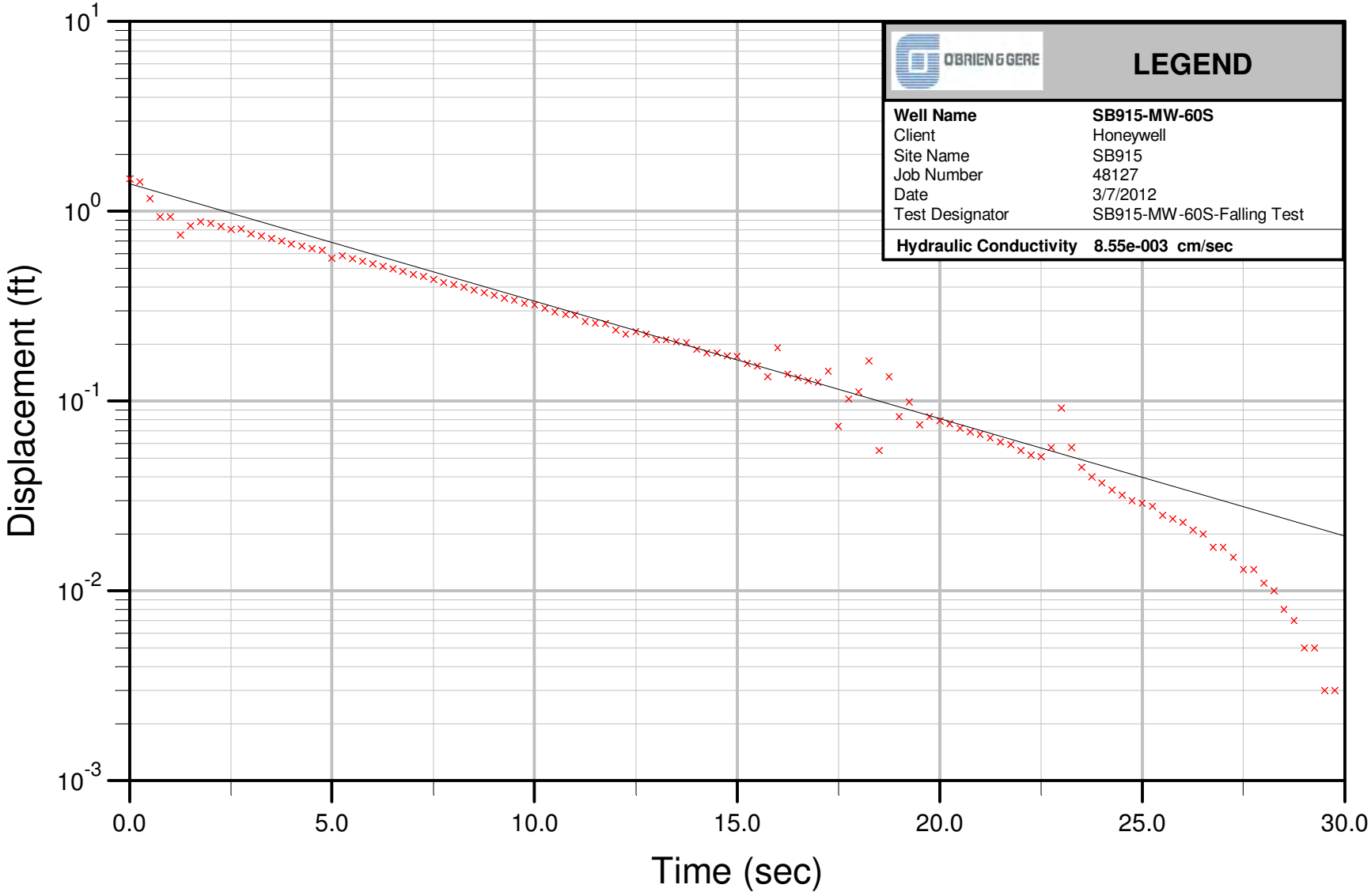
Bouwer & Rice


LEGEND
O'BRIEN & GERE
Well Name SB915-MW-53S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/8/12
Test Designator SB915-MW-53S-RisingTest
Hydraulic Conductivity 3.619e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
500.00
1000.00
1500.00
2000.00
2500.00
Time (sec)

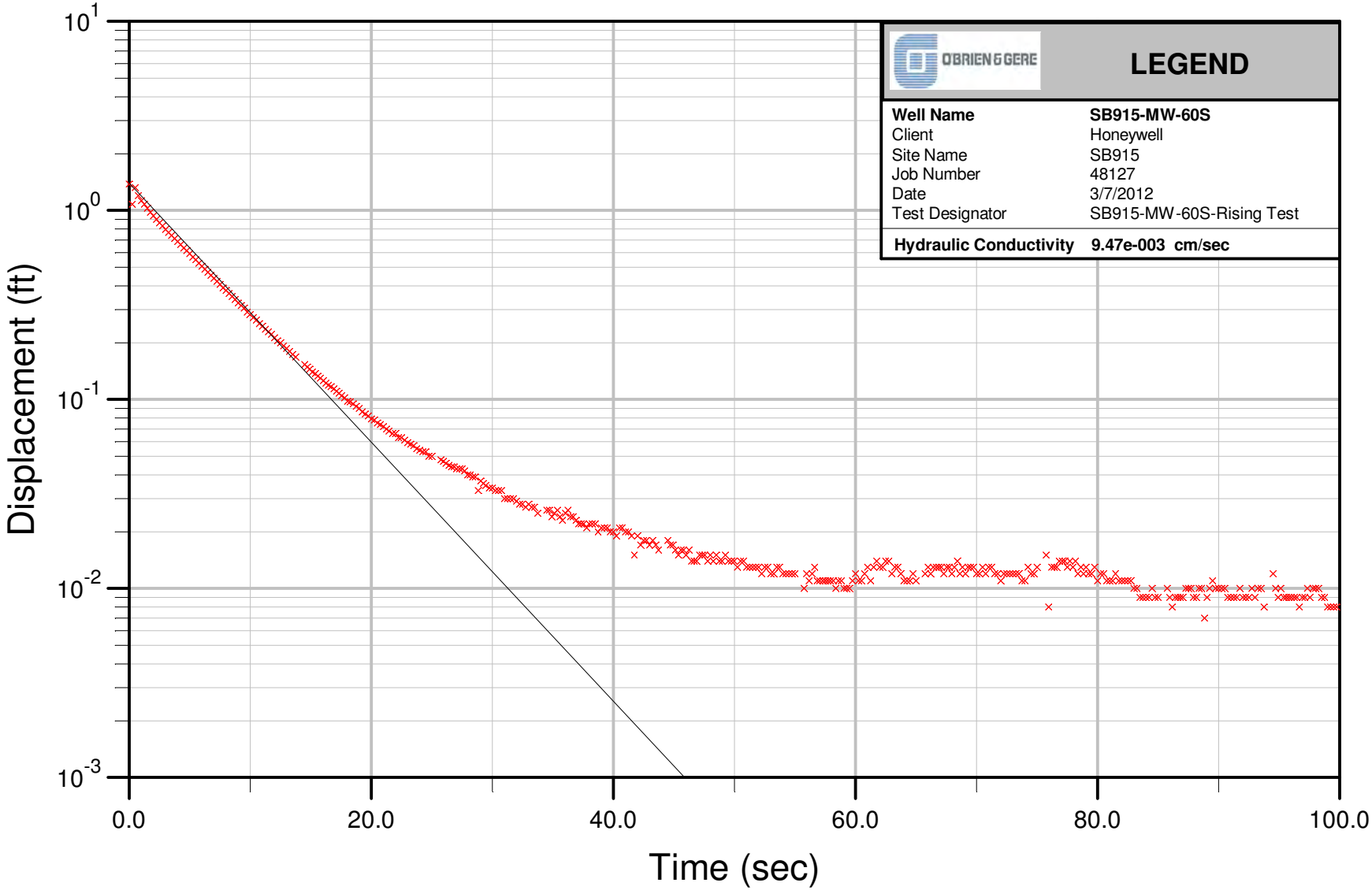
Bouwer & Rice


LEGEND
O'BRIEN & GERE
Well Name SB915-MW-59S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/7/12
Test Designator SB915-MW-59S-RisingTest
Hydraulic Conductivity 0.06626 cm/sec
Displacement (ft)
Time (sec)
10^0
10^-1
10^-2
10^-3
10^-4
0.0
2.0
4.0
6.0
8.0
10.0

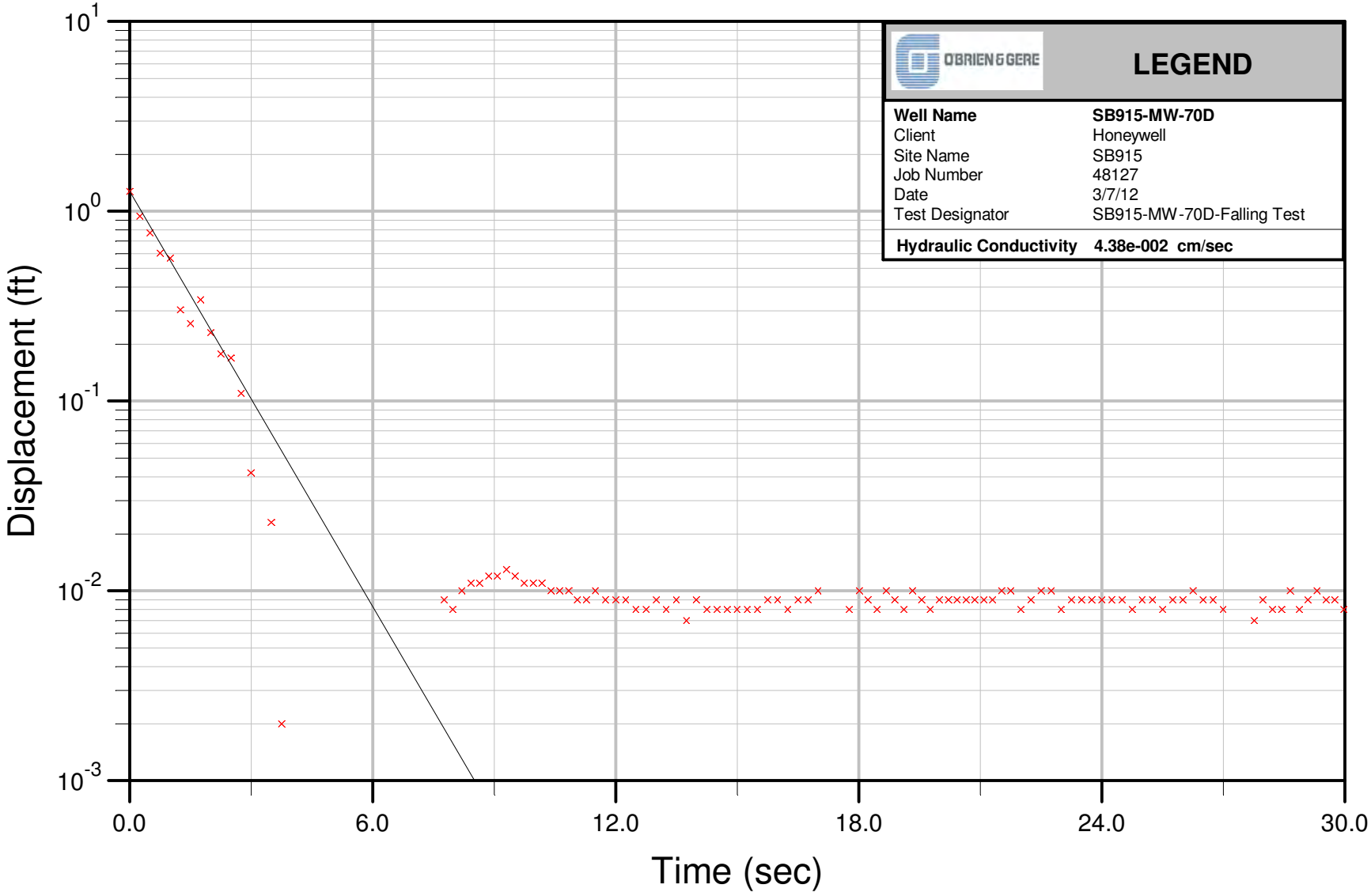
Bouwer & Rice


LEGEND
Well Name SB915-MW-60S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/7/2012
Test Designator SB915-MW-60S-Falling Test
Hydraulic Conductivity 8.55e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
5.0
10.0
15.0
20.0
25.0
30.0

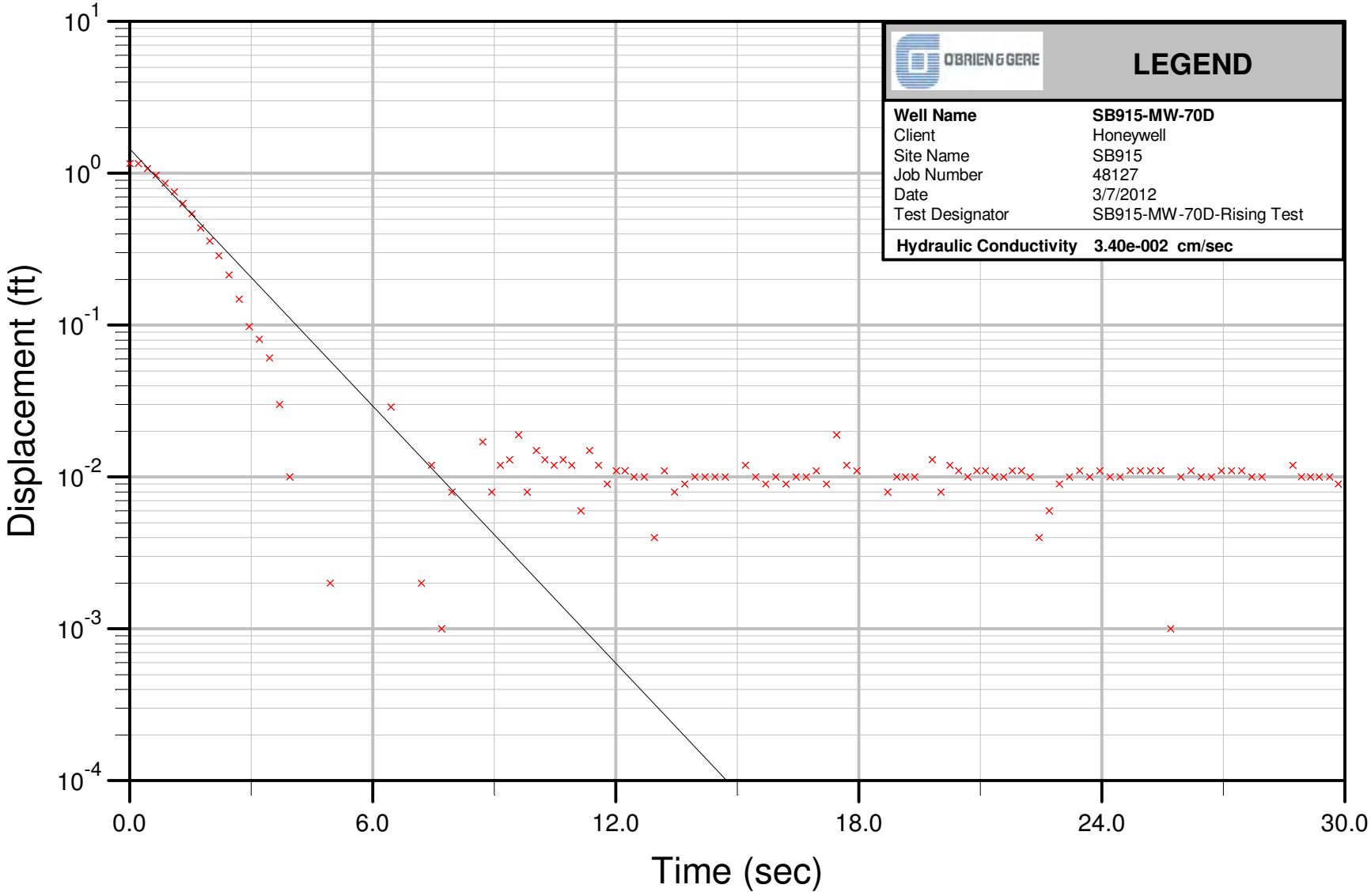
Bouwer & Rice


LEGEND
Well Name SB915-MW-60S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/7/2012
Test Designator SB915-MW-60S-Rising Test
Hydraulic Conductivity 9.47e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
20.0
40.0
60.0
80.0
100.0

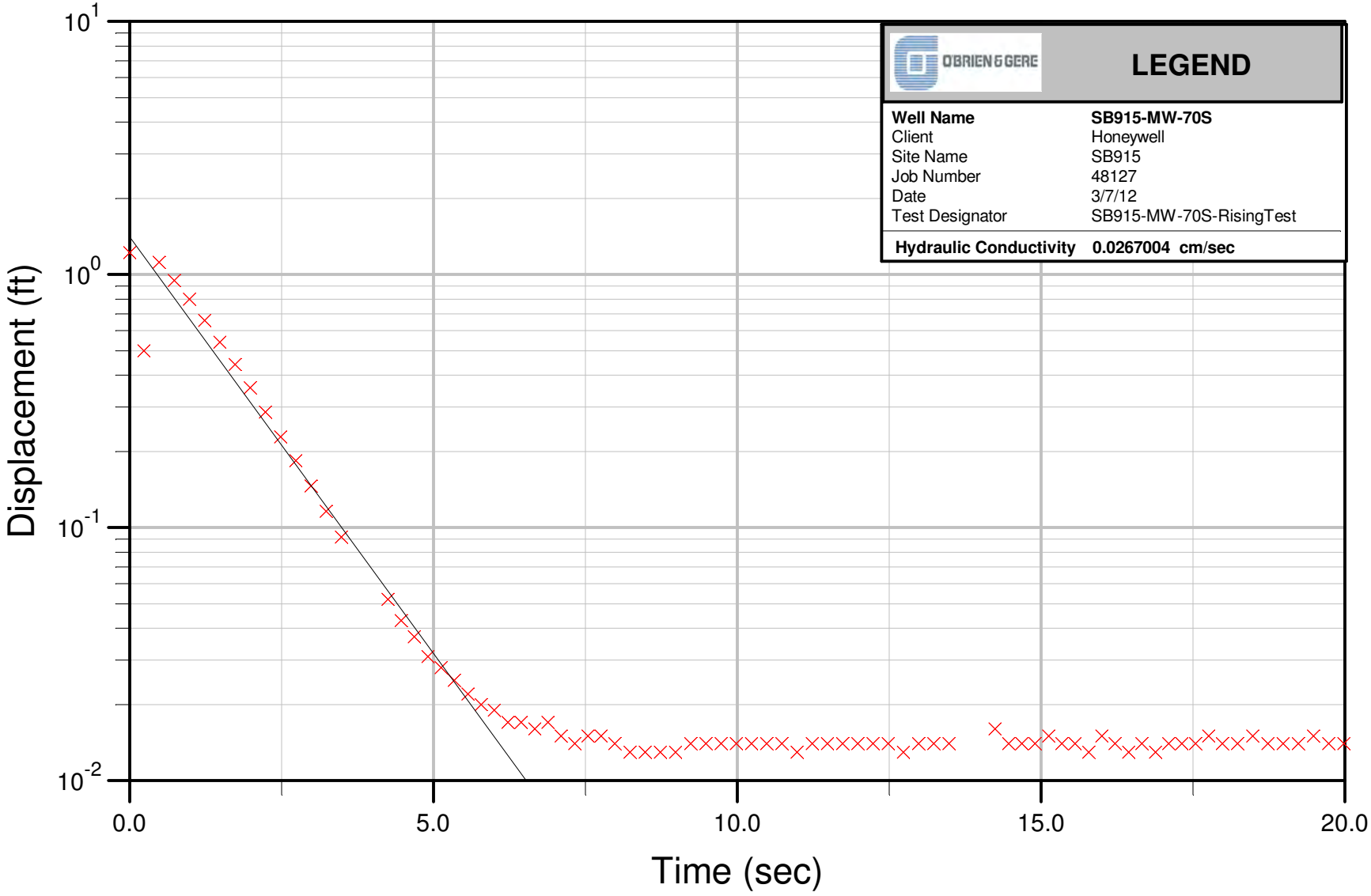
Bouwer & Rice


LEGEND
Well Name SB915-MW-70D
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/7/12
Test Designator SB915-MW-70D-Falling Test
Hydraulic Conductivity 4.38e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
6.0
12.0
18.0
24.0
30.0

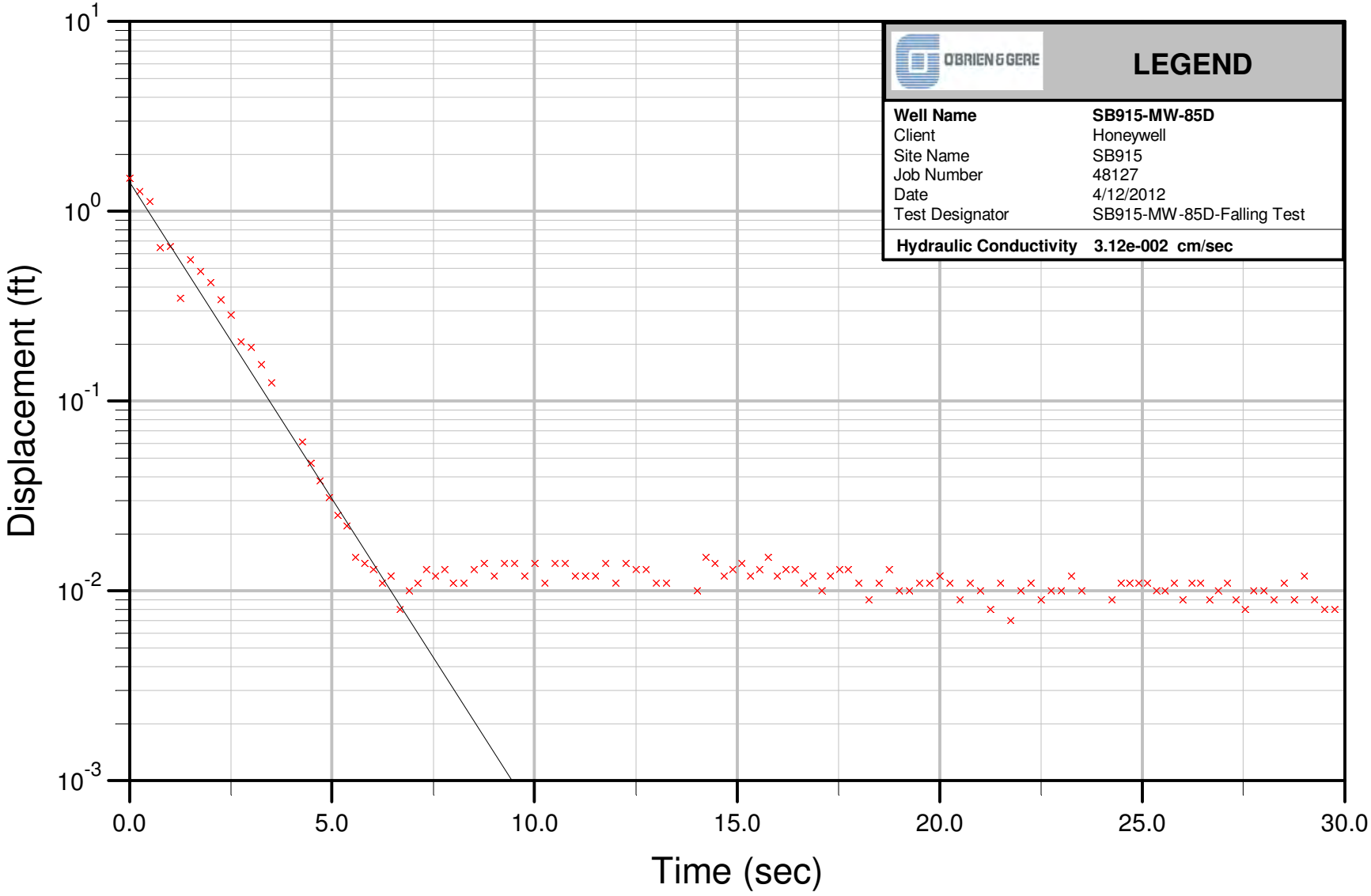
Bouwer & Rice


LEGEND
Well Name SB915-MW-70D
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/7/2012
Test Designator SB915-MW-70D-Rising Test
Hydraulic Conductivity 3.40e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
6.0
12.0
18.0
24.0
30.0

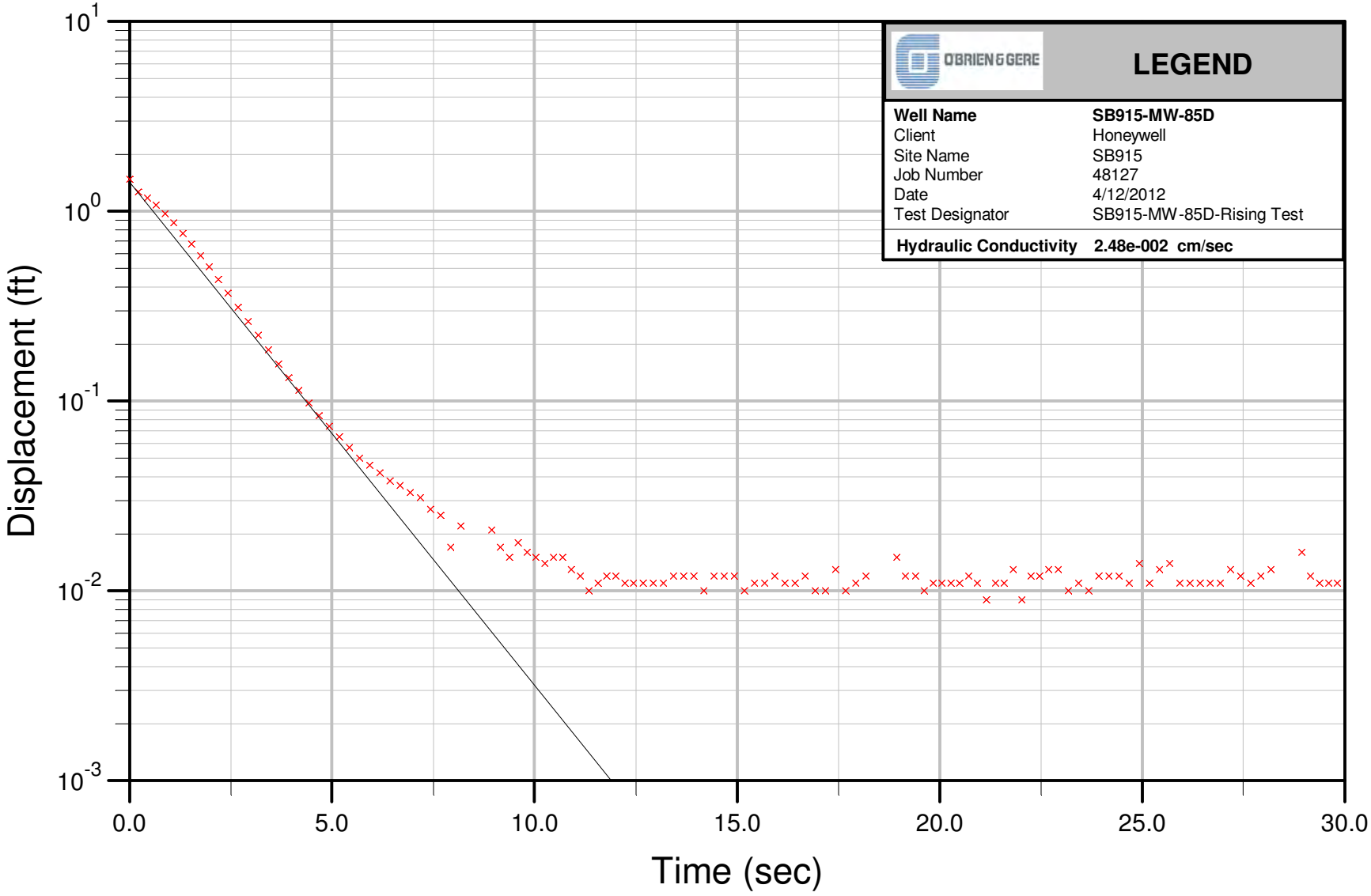
Bouwer & Rice


LEGEND
Well Name SB915-MW-70S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/7/12
Test Designator SB915-MW-70S-RisingTest
Hydraulic Conductivity 0.0267004 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
5.0
10.0
15.0
20.0

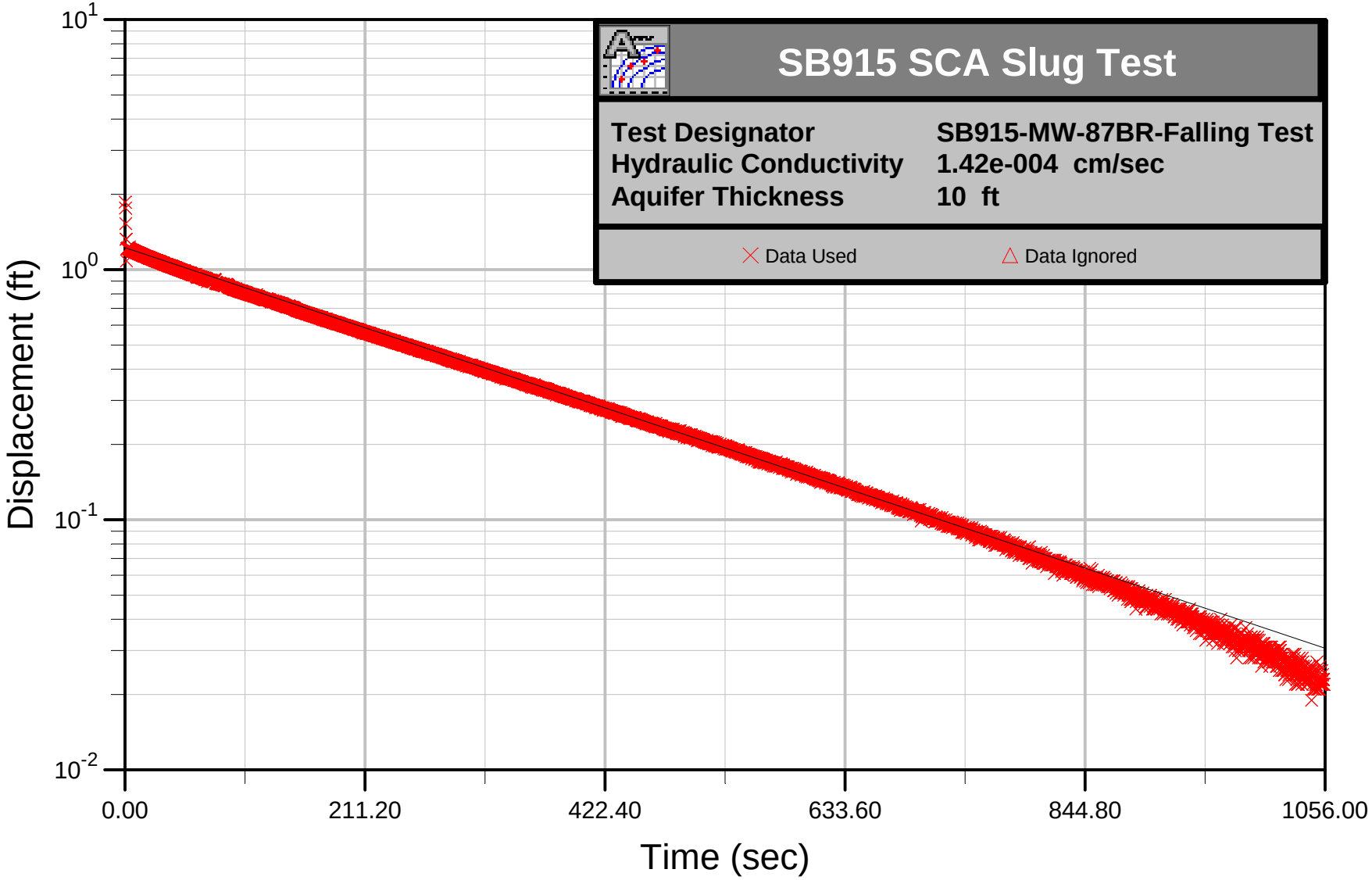
Bouwer & Rice


LEGEND
Well Name SB915-MW-85D
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/12/2012
Test Designator SB915-MW-85D-Falling Test
Hydraulic Conductivity 3.12e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
5.0
10.0
15.0
20.0
25.0
30.0

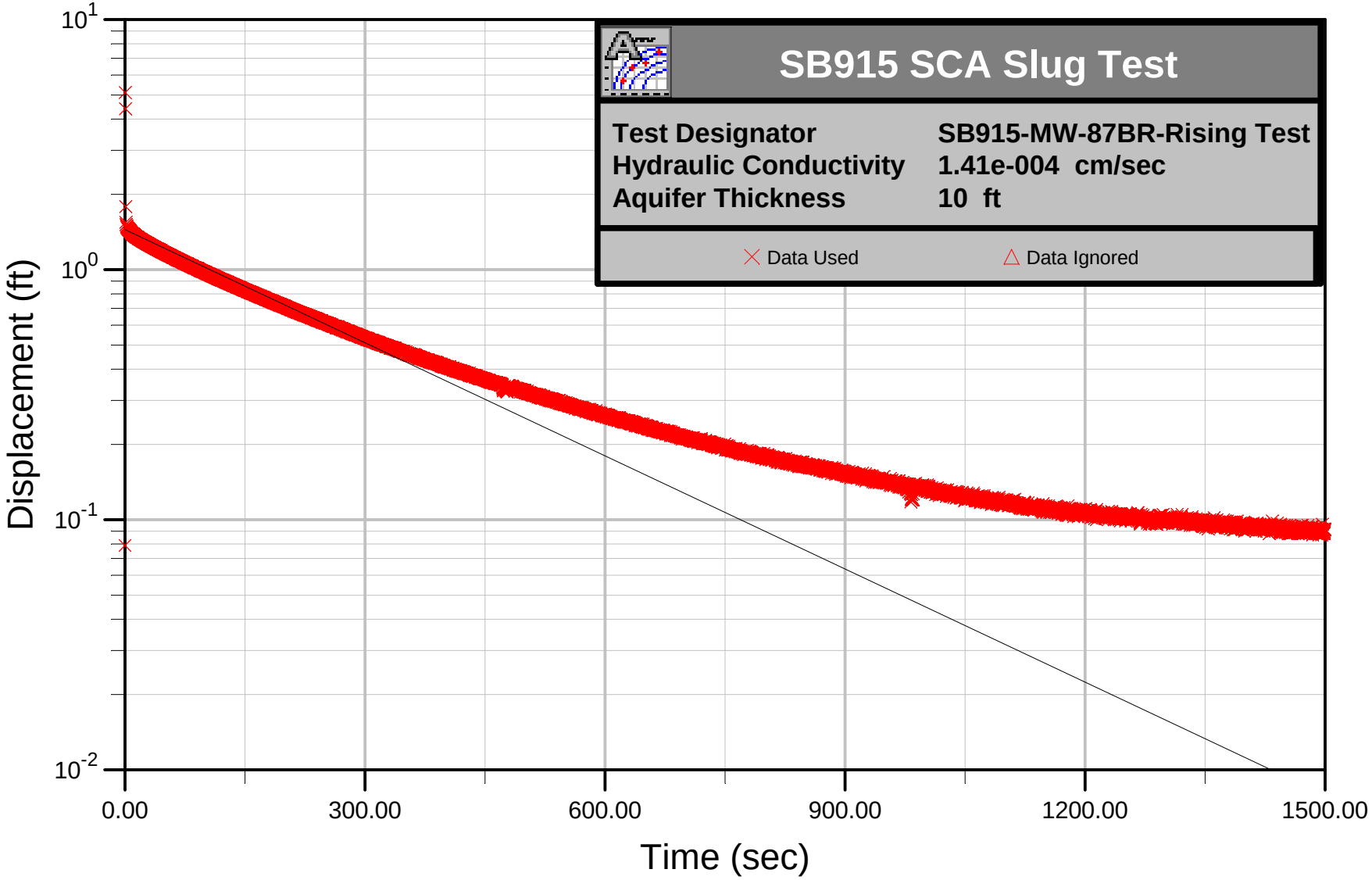
Bouwer & Rice


LEGEND
Well Name SB915-MW-85D
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/12/2012
Test Designator SB915-MW-85D-Rising Test
Hydraulic Conductivity 2.48e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
5.0
10.0
15.0
20.0
25.0
30.0

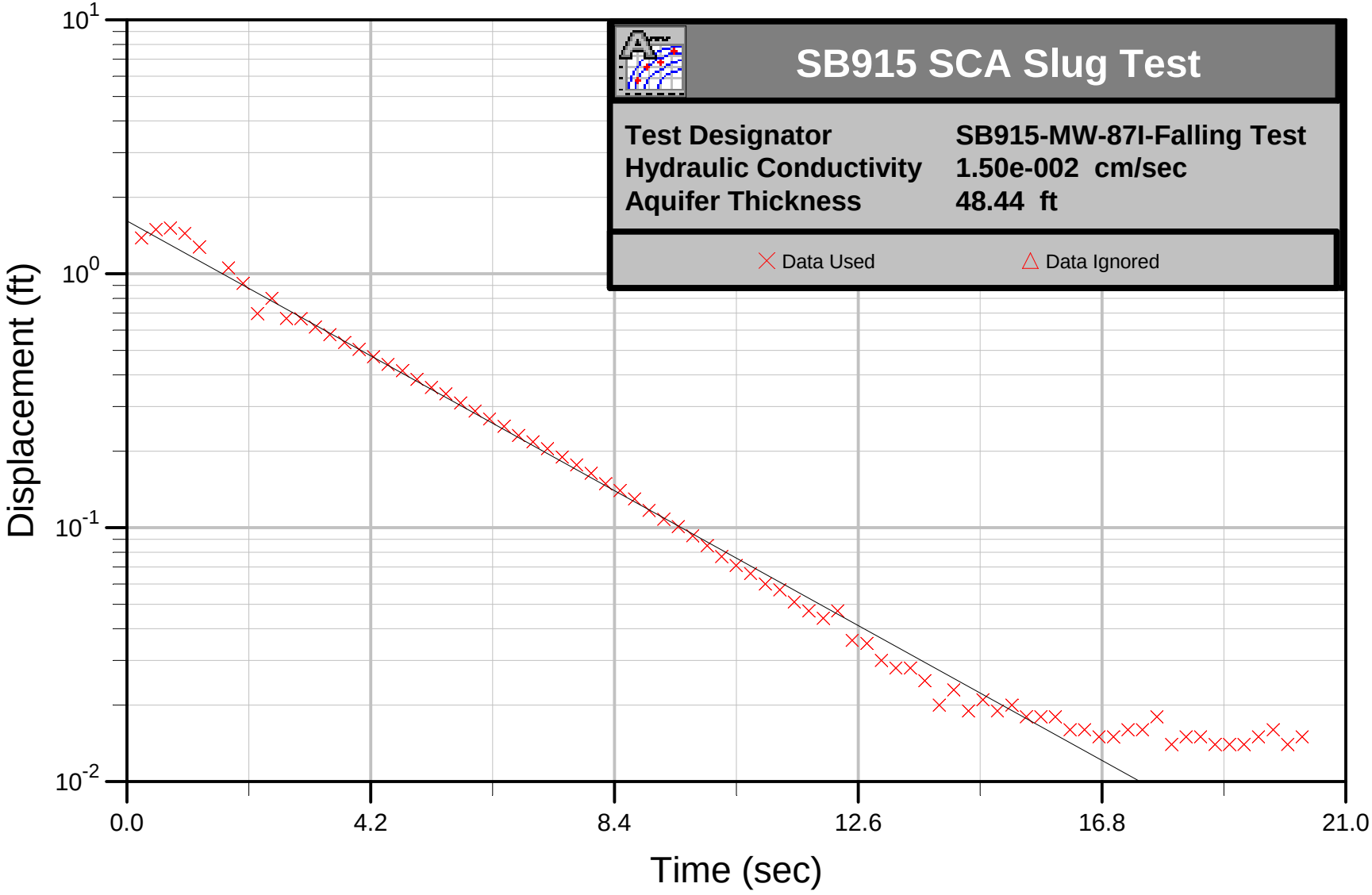
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-87BR-Falling Test
Hydraulic Conductivity 1.42e-004 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
211.20
422.40
633.60
844.80
1056.00
Time (sec)

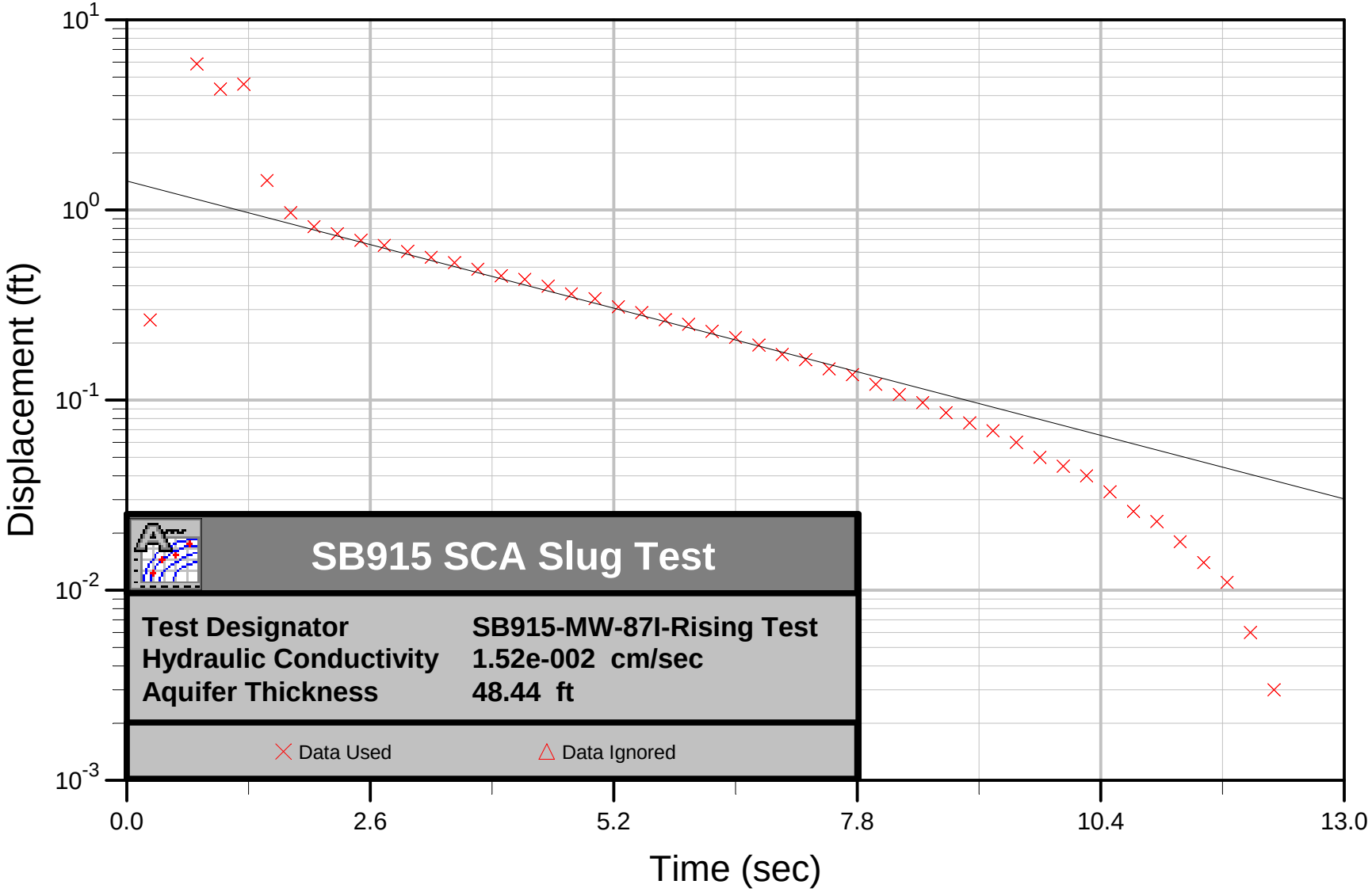
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-87BR-Rising Test
Hydraulic Conductivity 1.41e-004 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
300.00
600.00
900.00
1200.00
1500.00
Time (sec)

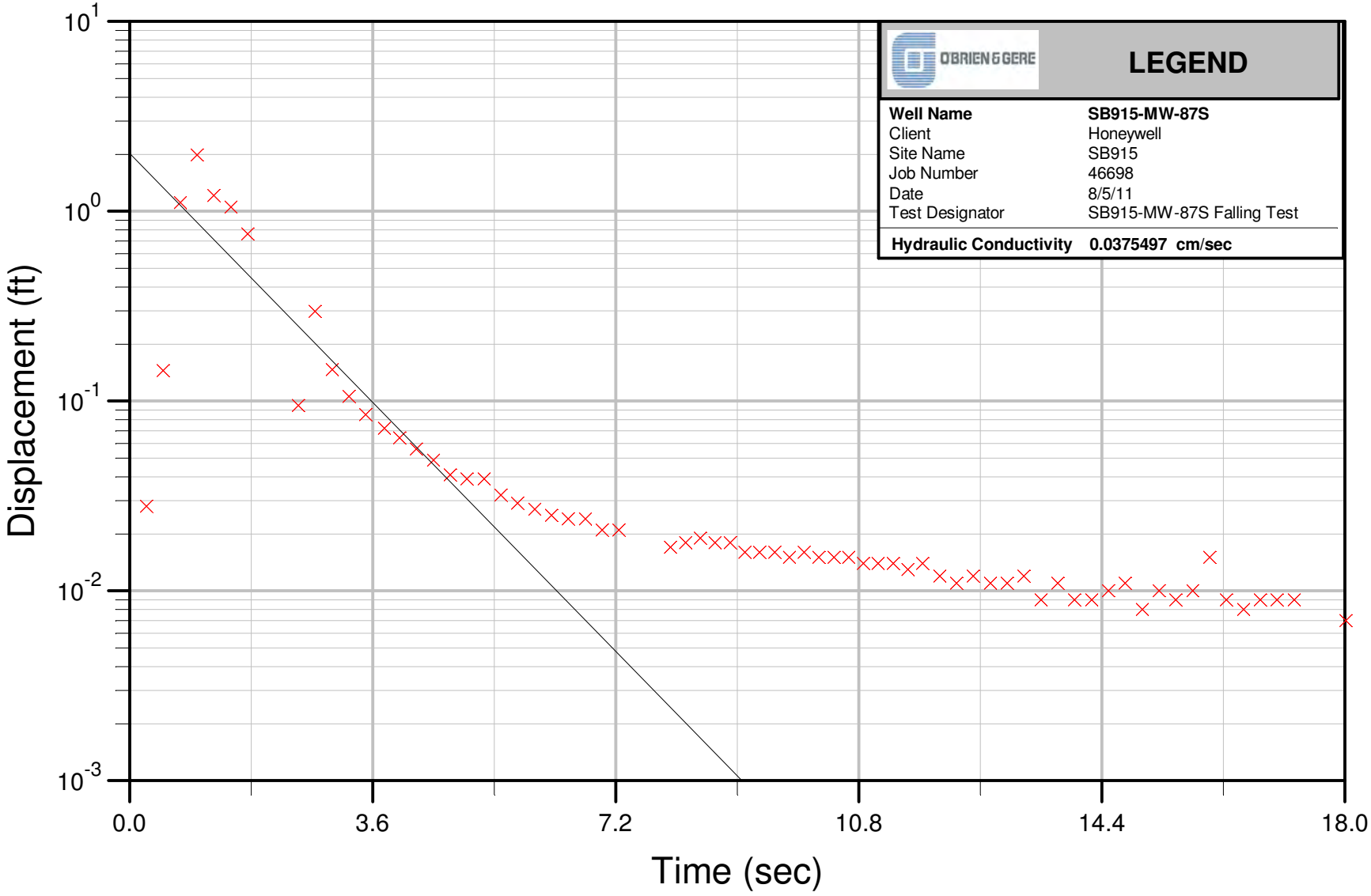
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-87I-Falling Test
Hydraulic Conductivity 1.50e-002 cm/sec
Aquifer Thickness 48.44 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
4.2
8.4
12.6
16.8
21.0
Time (sec)

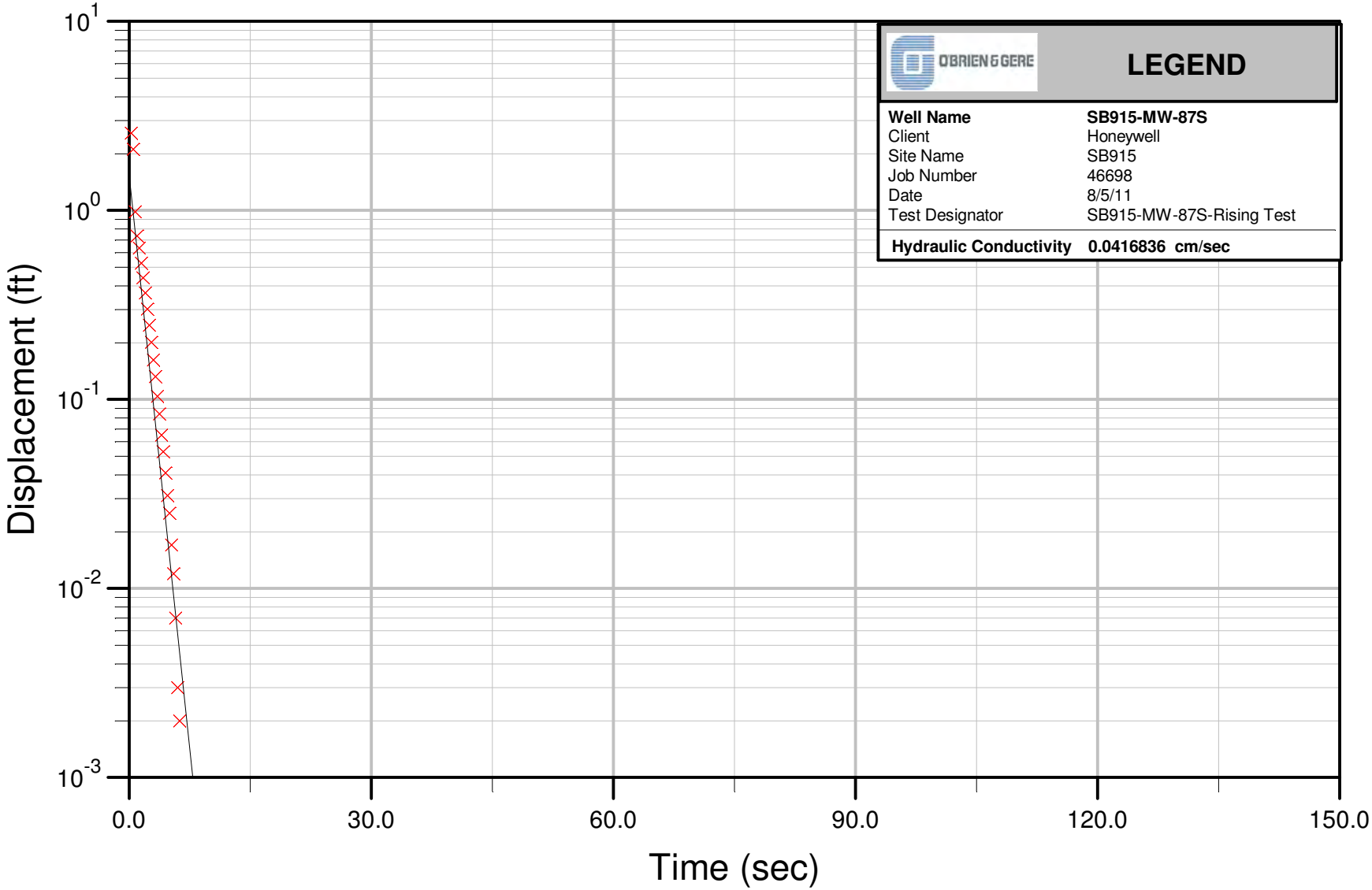
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
2.6
5.2
7.8
10.4
13.0
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-87I-Rising Test
Hydraulic Conductivity 1.52e-002 cm/sec
Aquifer Thickness 48.44 ft
Data Used
Data Ignored

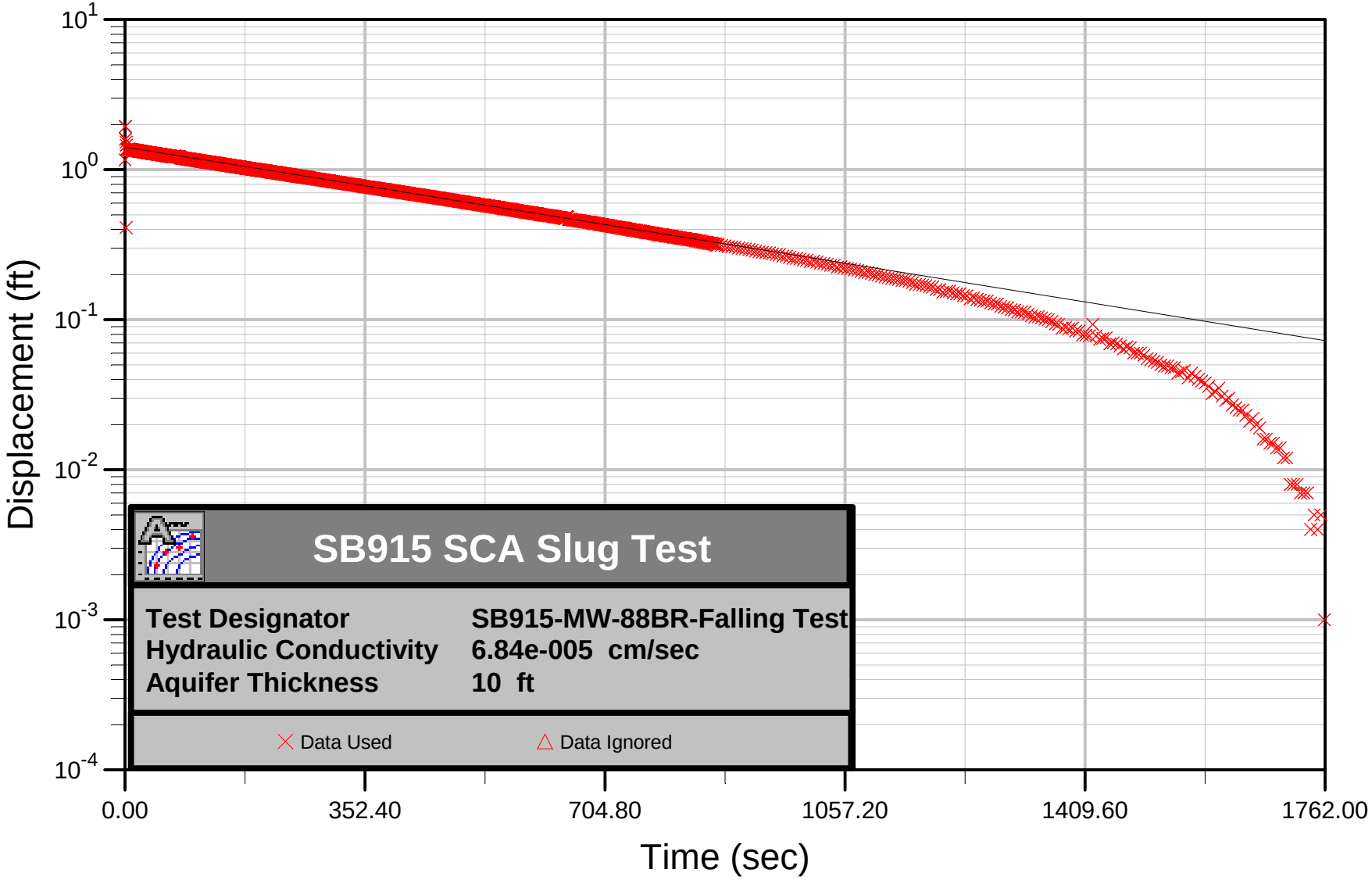
Bouwer & Rice


LEGEND
Well Name SB915-MW-87S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-87S Falling Test
Hydraulic Conductivity 0.0375497 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
3.6
7.2
10.8
14.4
18.0

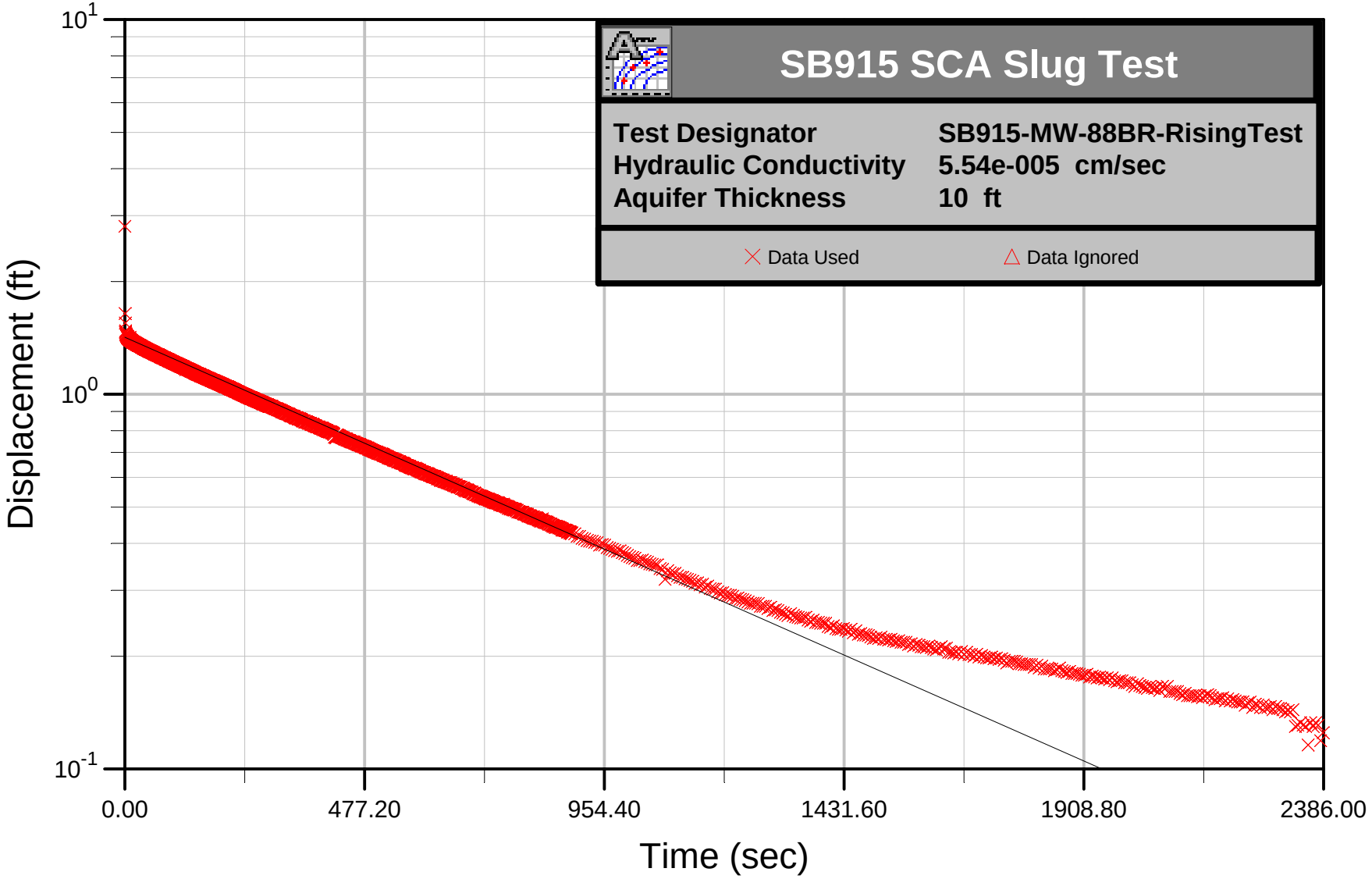
Bouwer & Rice


LEGEND
Well Name SB915-MW-87S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-87S-Rising Test
Hydraulic Conductivity 0.0416836 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
30.0
60.0
90.0
120.0
150.0

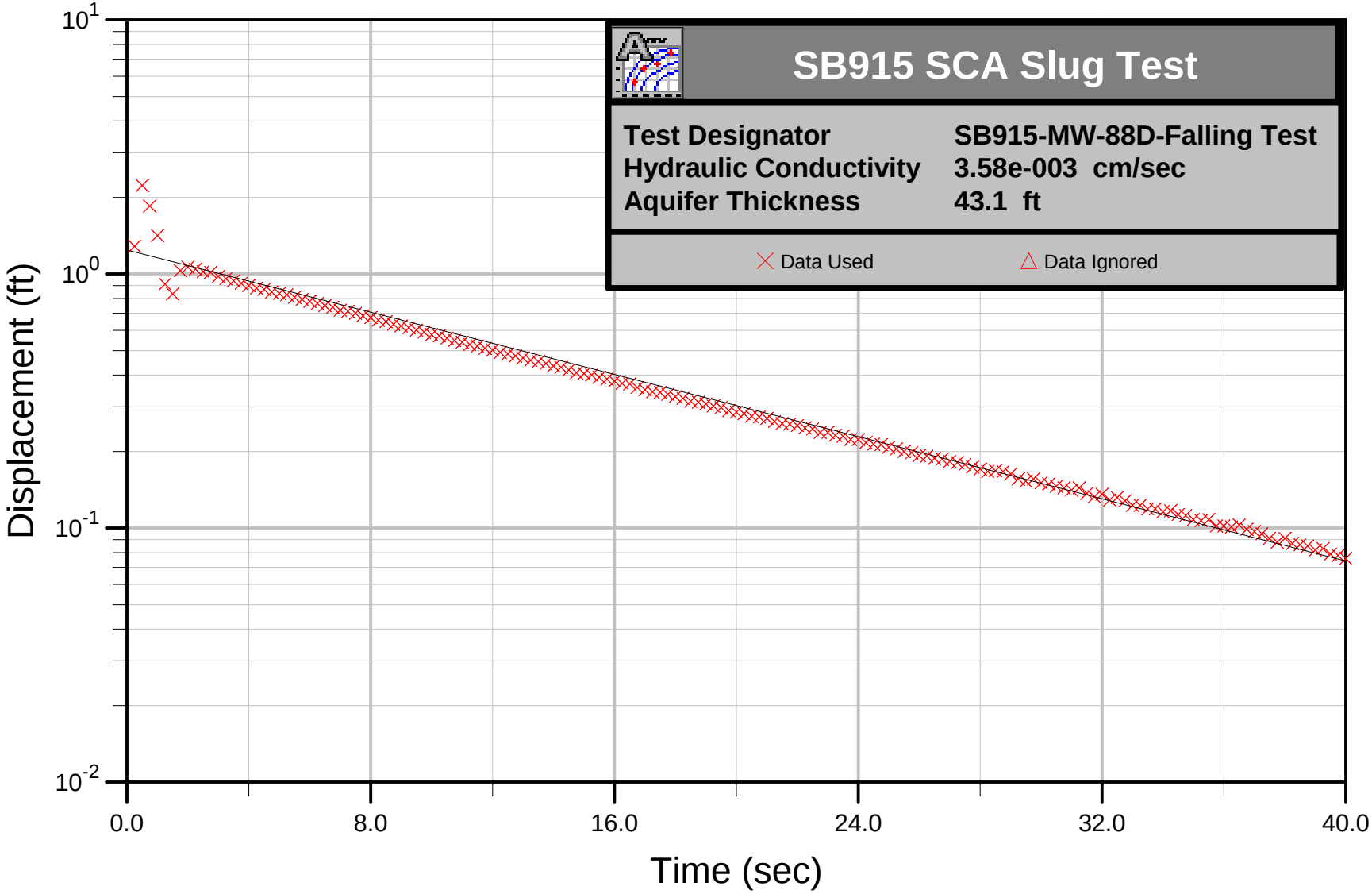
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0.00
352.40
704.80
1057.20
1409.60
1762.00
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-88BR-Falling Test
Hydraulic Conductivity 6.84e-005 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored

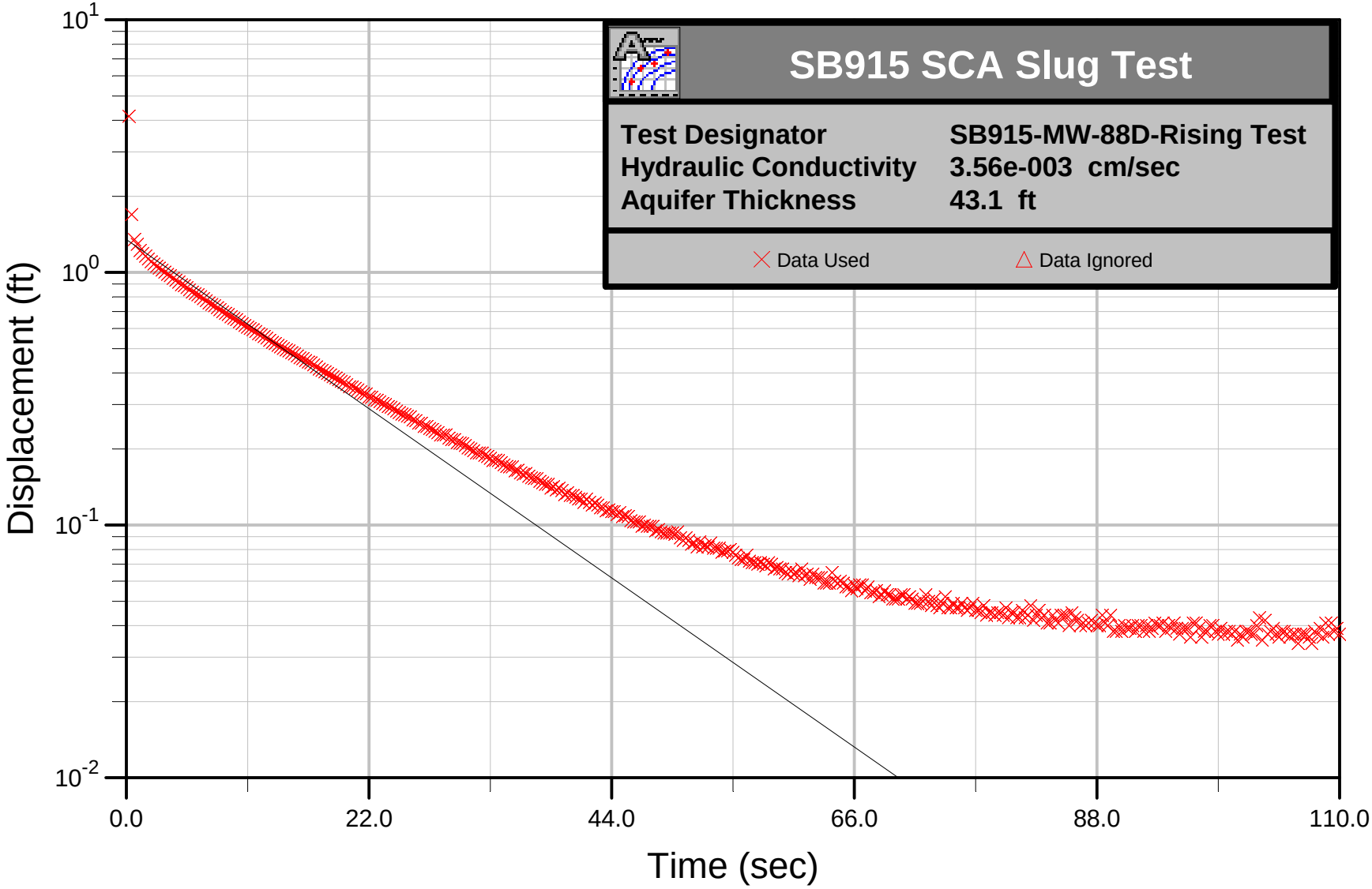
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-88BR-RisingTest
Hydraulic Conductivity 5.54e-005 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored
Displacement (ft)
10^1
10^0
10^{-1}
0.00
477.20
954.40
1431.60
1908.80
2386.00
Time (sec)

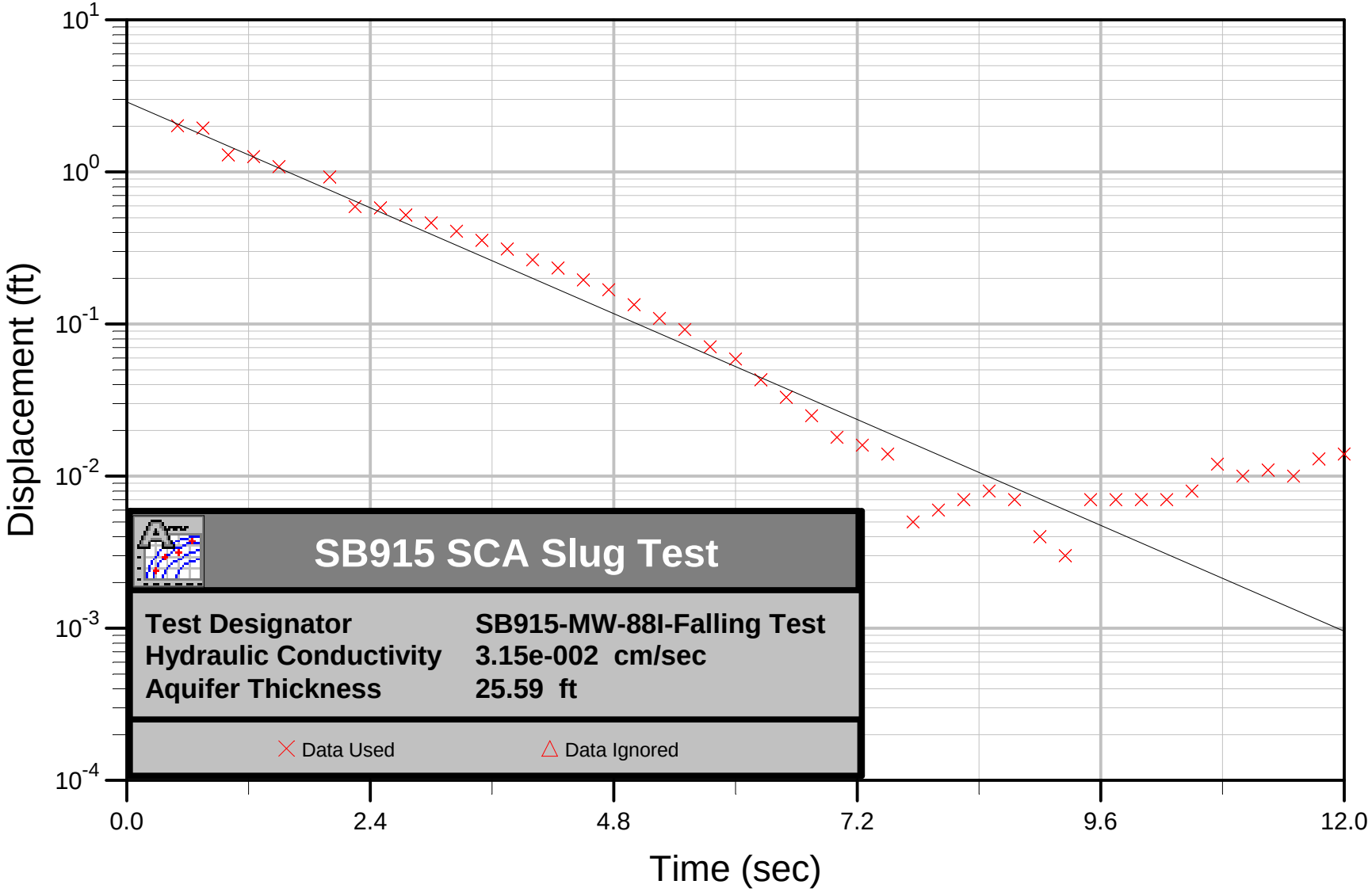
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-88D-Falling Test
Hydraulic Conductivity 3.58e-003 cm/sec
Aquifer Thickness 43.1 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
8.0
16.0
24.0
32.0
40.0
Time (sec)

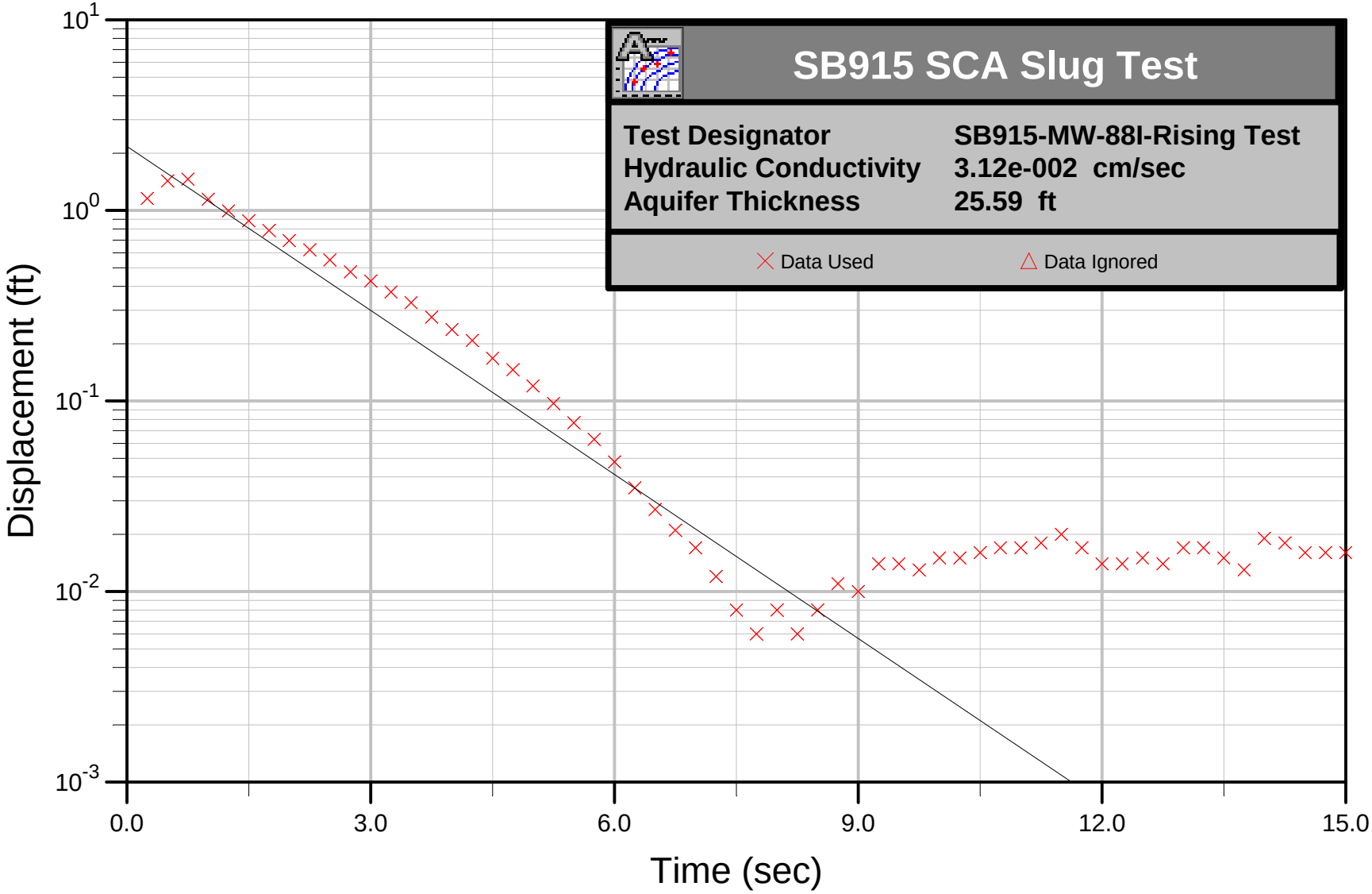
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-88D-Rising Test
Hydraulic Conductivity 3.56e-003 cm/sec
Aquifer Thickness 43.1 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
22.0
44.0
66.0
88.0
110.0
Time (sec)

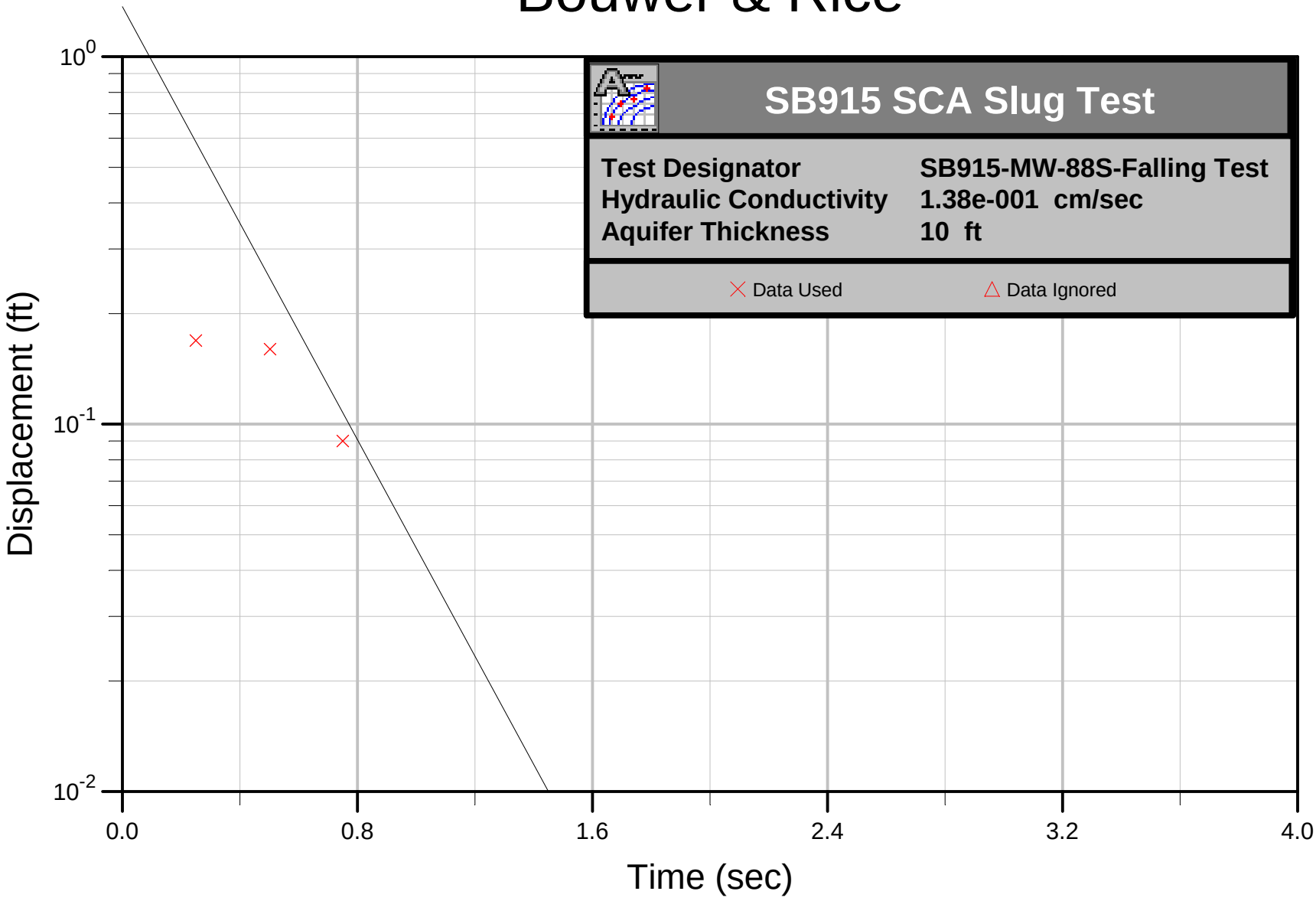
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0.0
2.4
4.8
7.2
9.6
12.0
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-88I-Falling Test
Hydraulic Conductivity 3.15e-002 cm/sec
Aquifer Thickness 25.59 ft
Data Used
Data Ignored

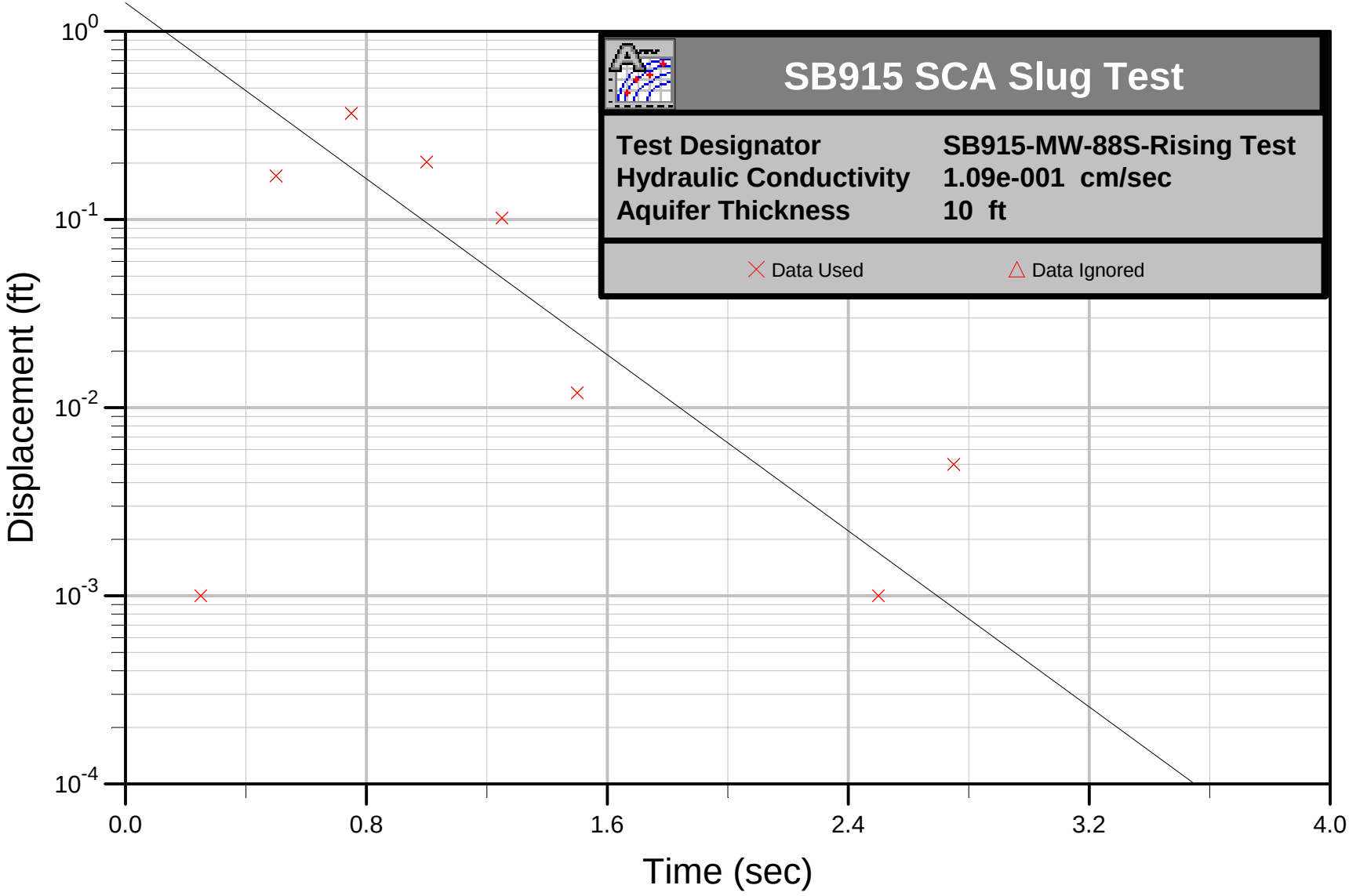
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-88I-Rising Test
Hydraulic Conductivity 3.12e-002 cm/sec
Aquifer Thickness 25.59 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
3.0
6.0
9.0
12.0
15.0
Time (sec)

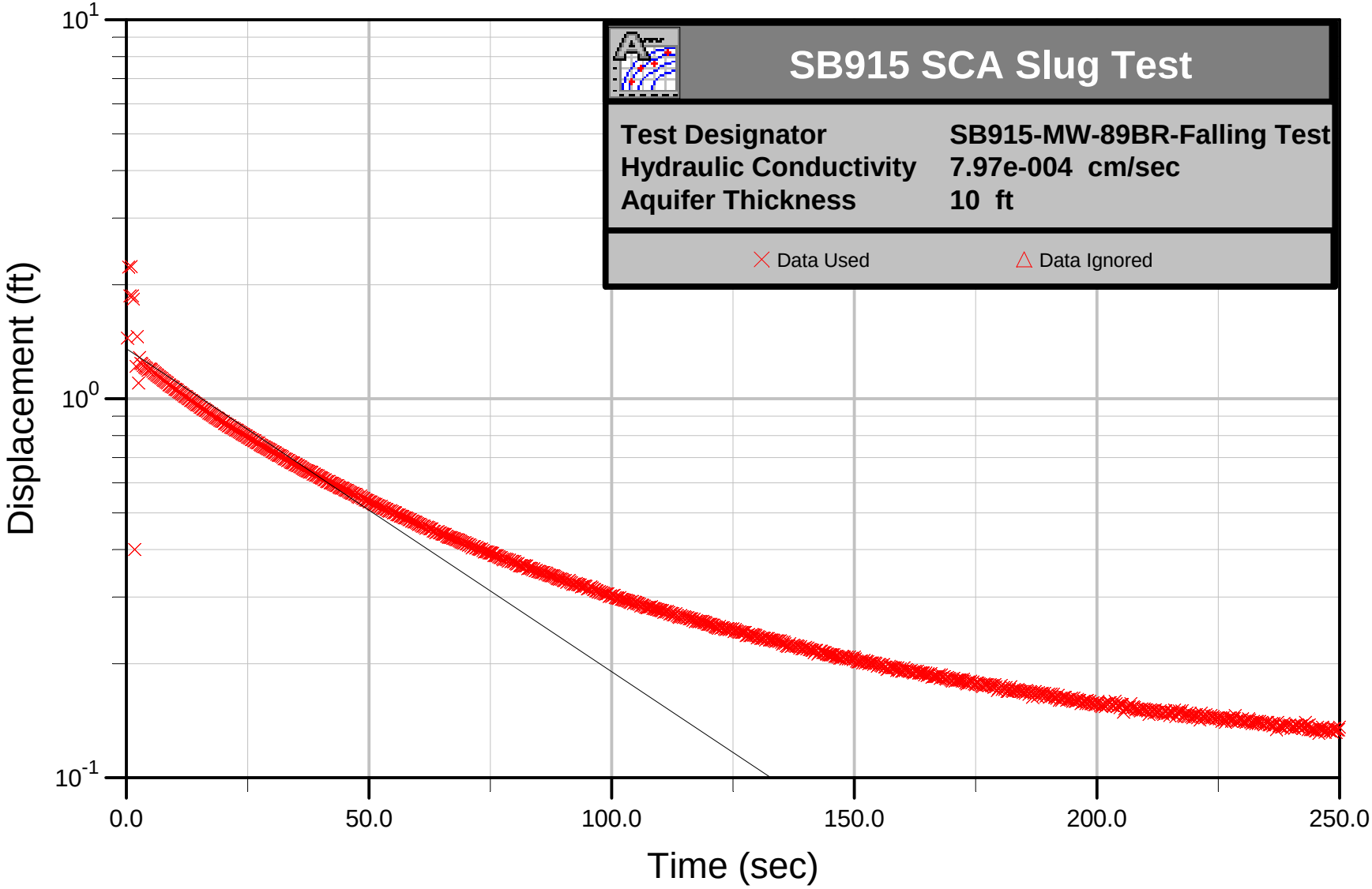
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-88S-Falling Test
Hydraulic Conductivity 1.38e-001 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored
Displacement (ft)
10^0
10^{-1}
10^{-2}
0.0
0.8
1.6
2.4
3.2
4.0
Time (sec)

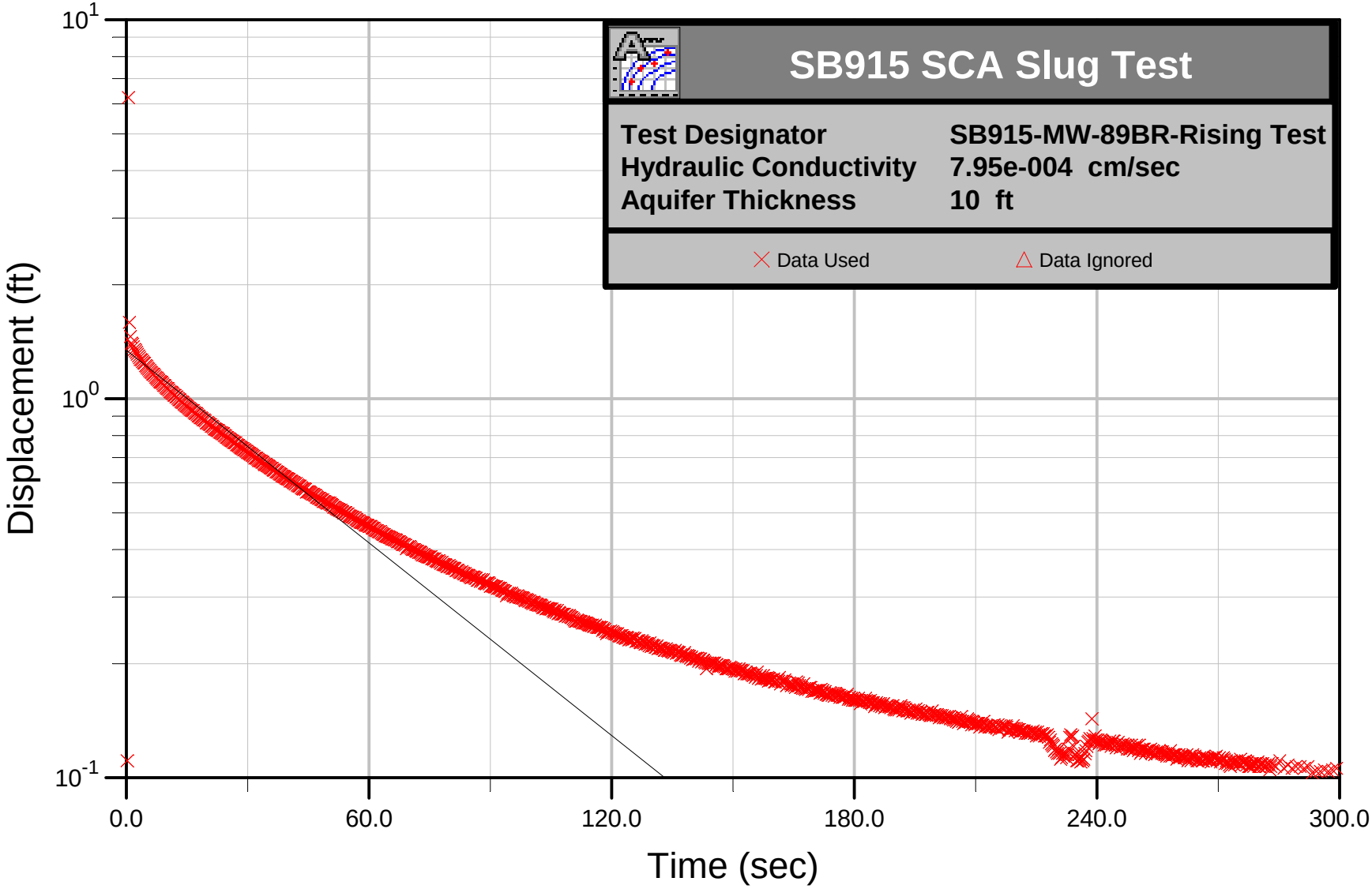
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-88S-Rising Test
Hydraulic Conductivity 1.09e-001 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored
Displacement (ft)
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0.0
0.8
1.6
2.4
3.2
4.0
Time (sec)

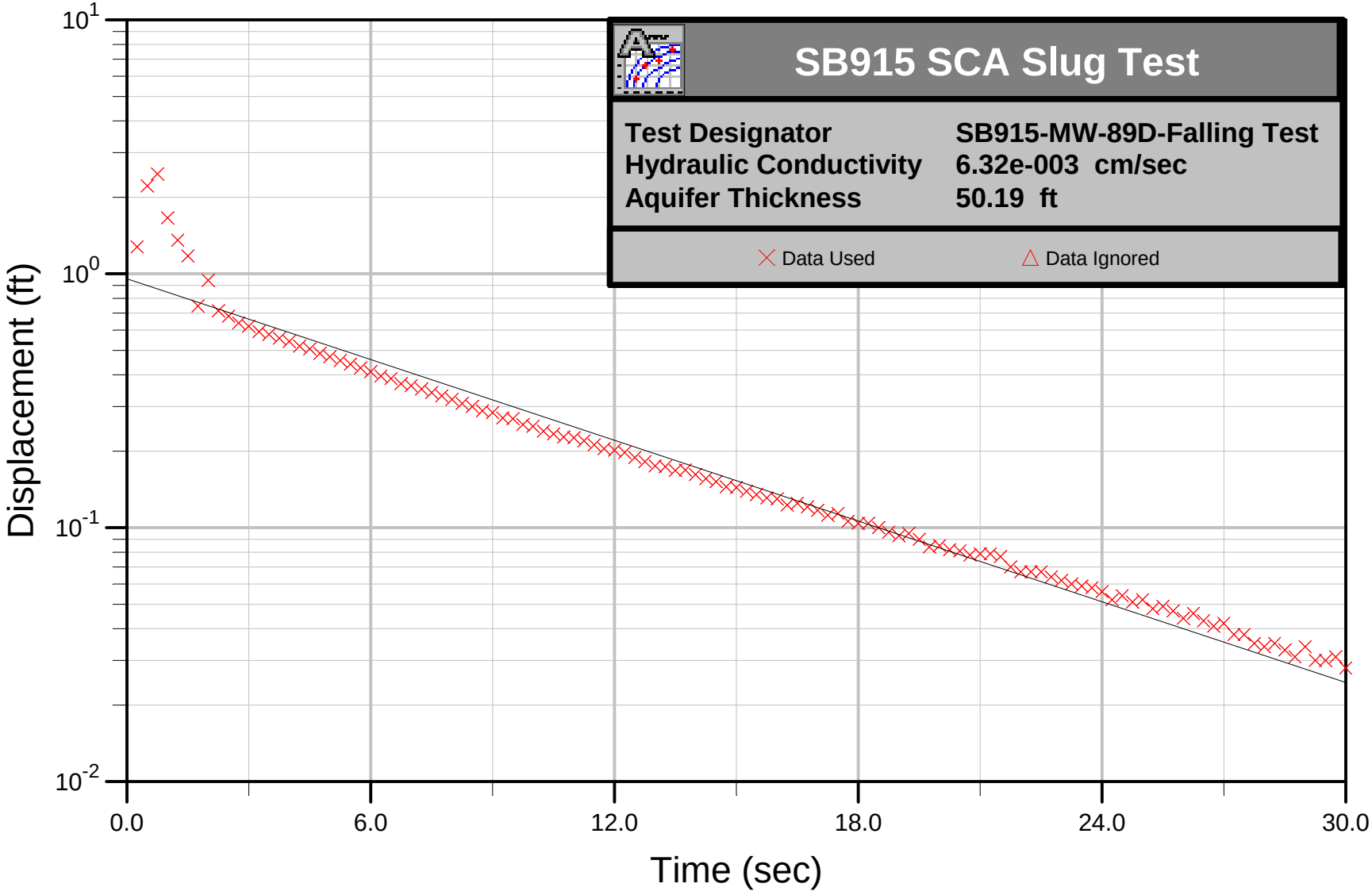
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-89BR-Falling Test
Hydraulic Conductivity 7.97e-004 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored
Displacement (ft)
10^1
10^0
10^{-1}
0.0
50.0
100.0
150.0
200.0
250.0
Time (sec)

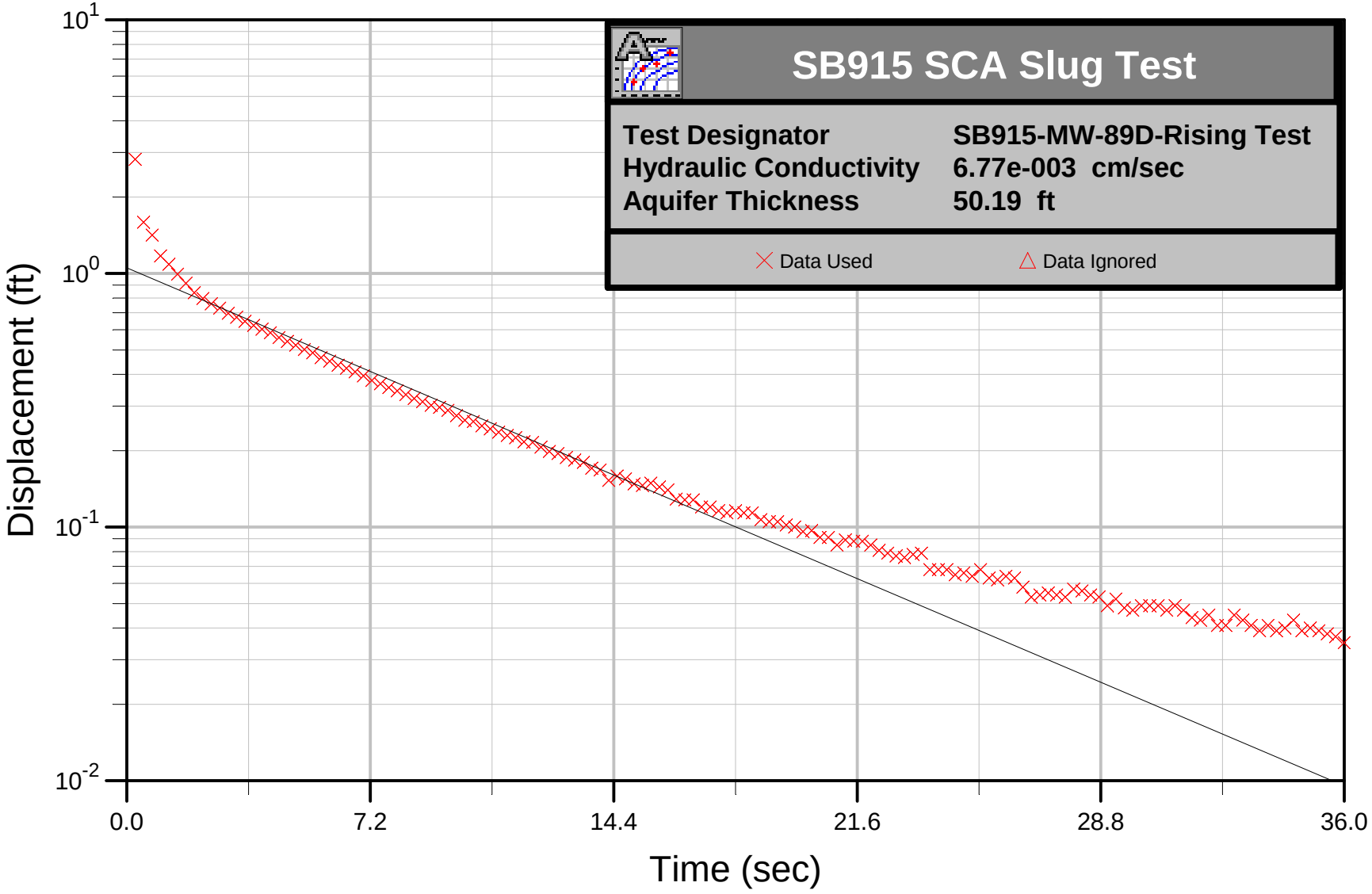
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-89BR-Rising Test
Hydraulic Conductivity 7.95e-004 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored
Displacement (ft)
10^1
10^0
10^{-1}
0.0
60.0
120.0
180.0
240.0
300.0
Time (sec)

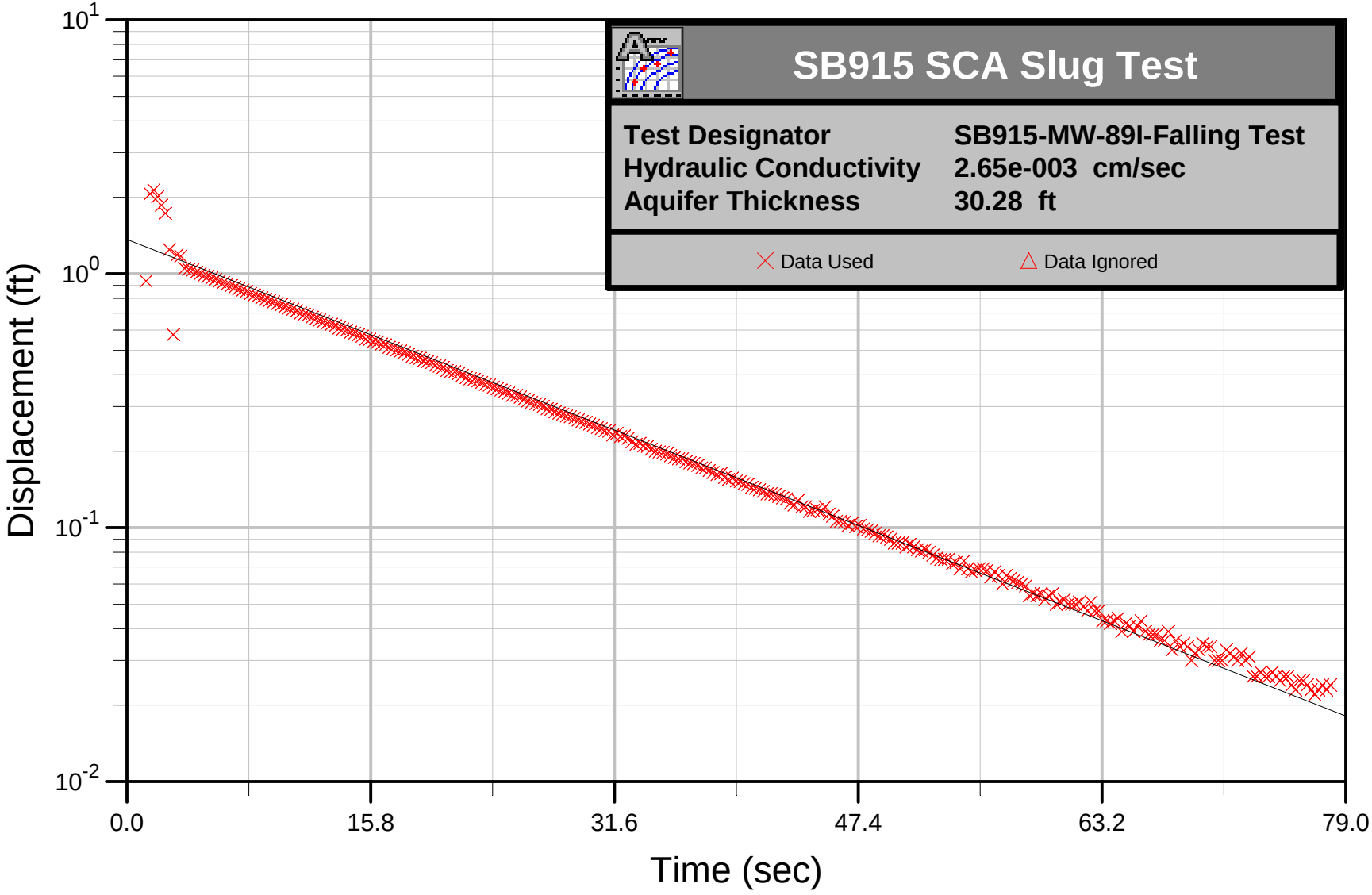
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-89D-Falling Test
Hydraulic Conductivity 6.32e-003 cm/sec
Aquifer Thickness 50.19 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
6.0
12.0
18.0
24.0
30.0
Time (sec)

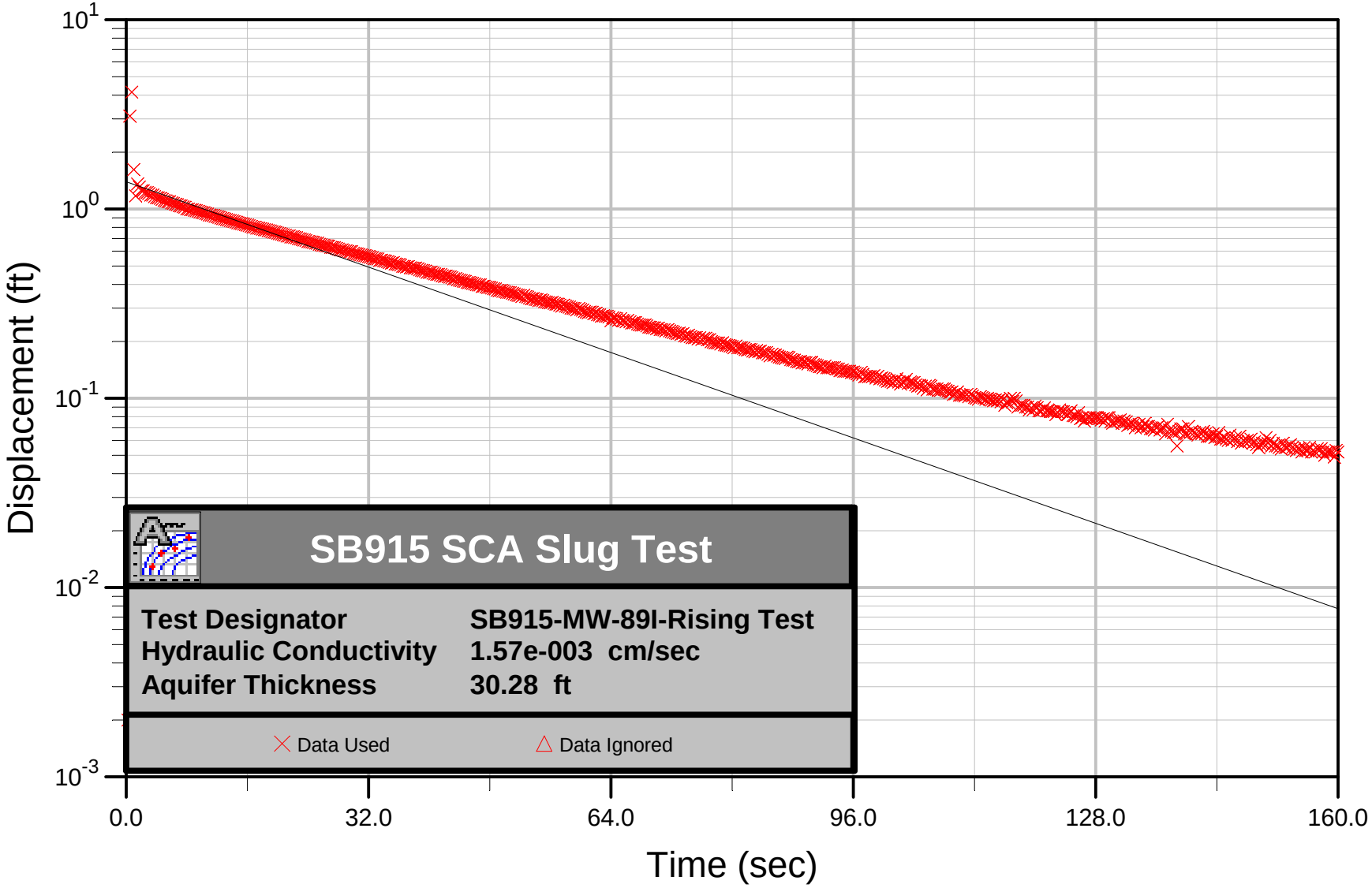
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-89D-Rising Test
Hydraulic Conductivity 6.77e-003 cm/sec
Aquifer Thickness 50.19 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
7.2
14.4
21.6
28.8
36.0
Time (sec)

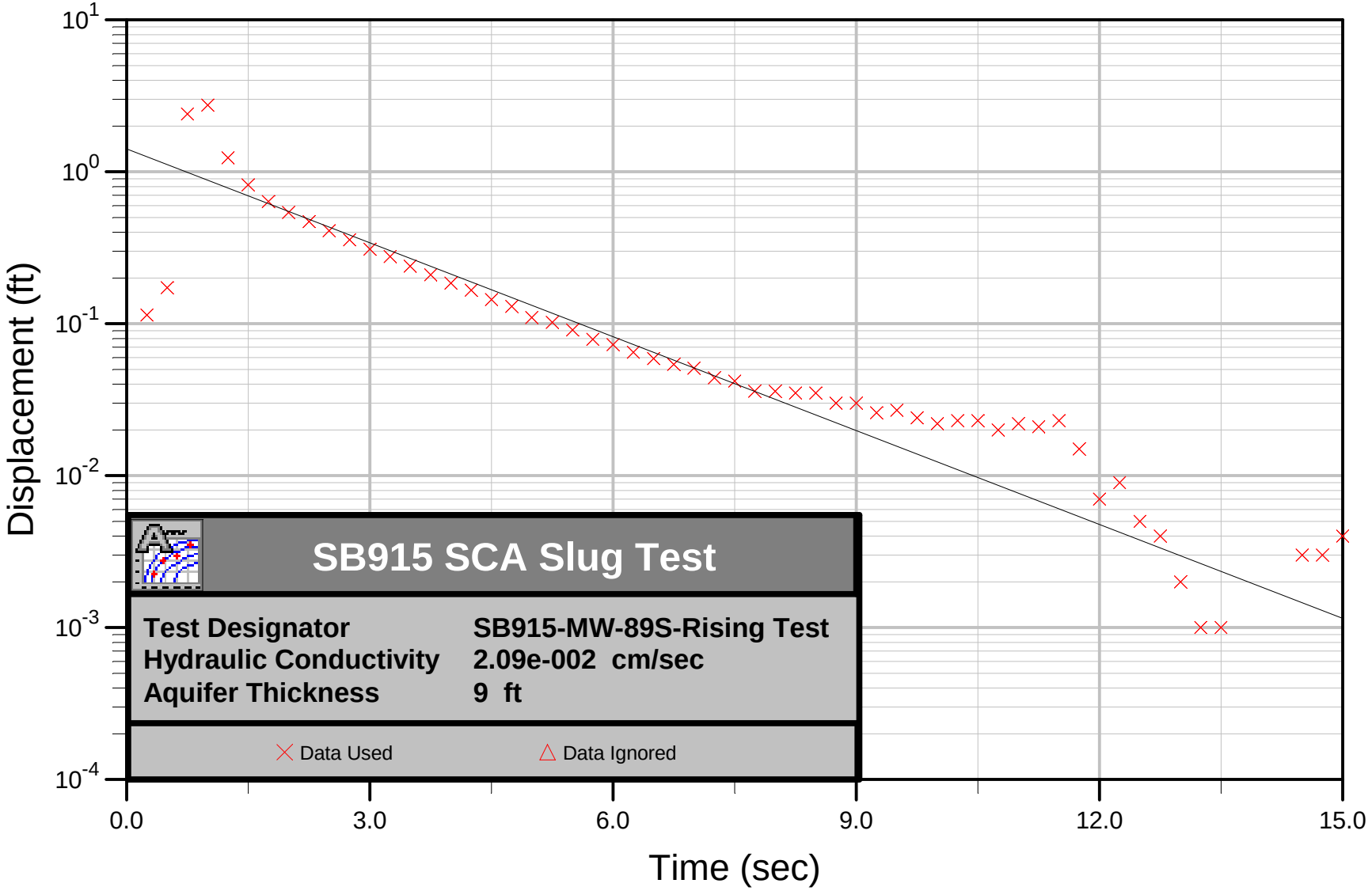
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-89I-Falling Test
Hydraulic Conductivity 2.65e-003 cm/sec
Aquifer Thickness 30.28 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
15.8
31.6
47.4
63.2
79.0
Time (sec)

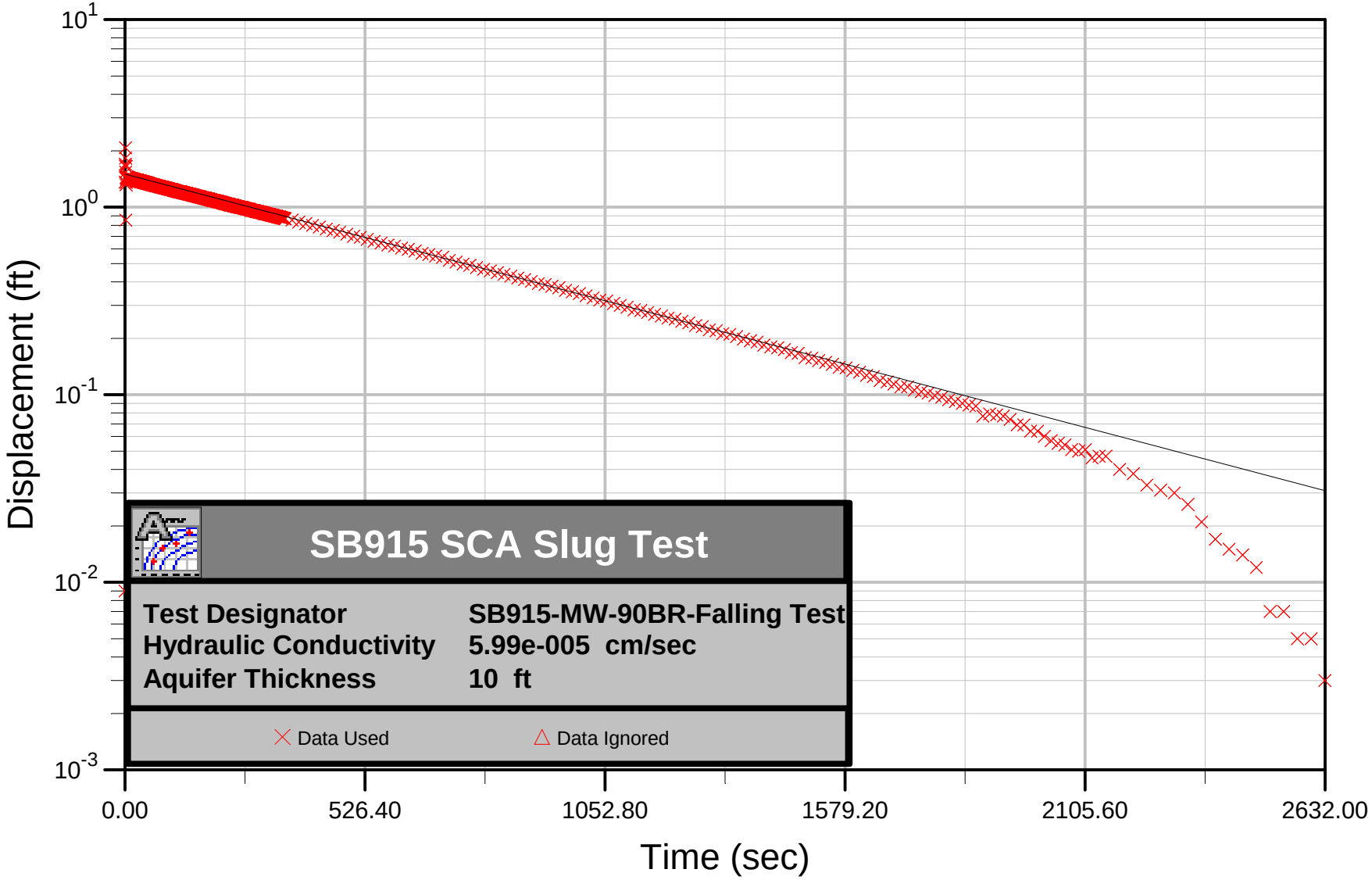
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
32.0
64.0
96.0
128.0
160.0
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-89I-Rising Test
Hydraulic Conductivity 1.57e-003 cm/sec
Aquifer Thickness 30.28 ft
Data Used
Data Ignored

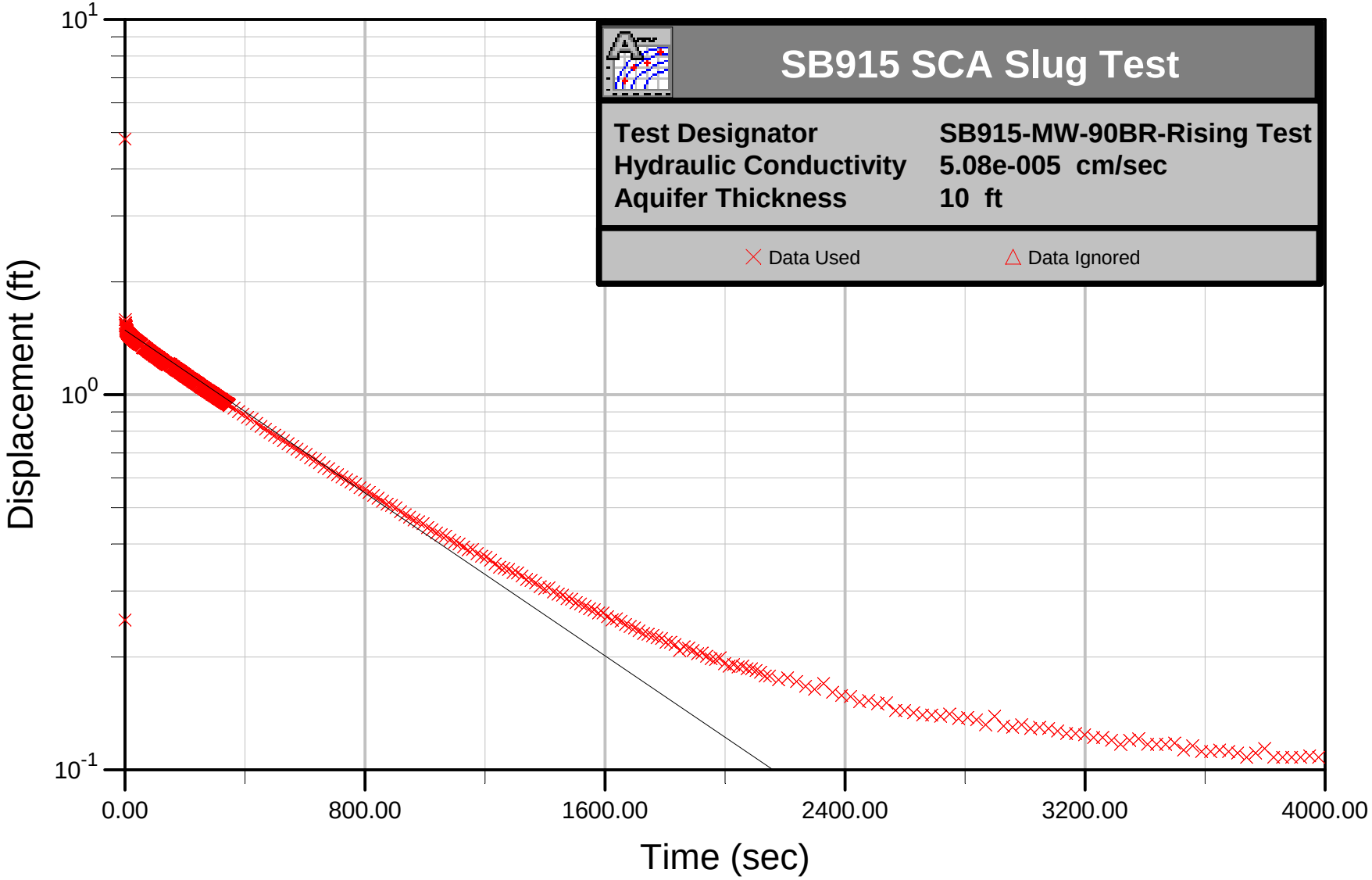
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0.0
3.0
6.0
9.0
12.0
15.0
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-89S-Rising Test
Hydraulic Conductivity 2.09e-002 cm/sec
Aquifer Thickness 9 ft
Data Used
Data Ignored

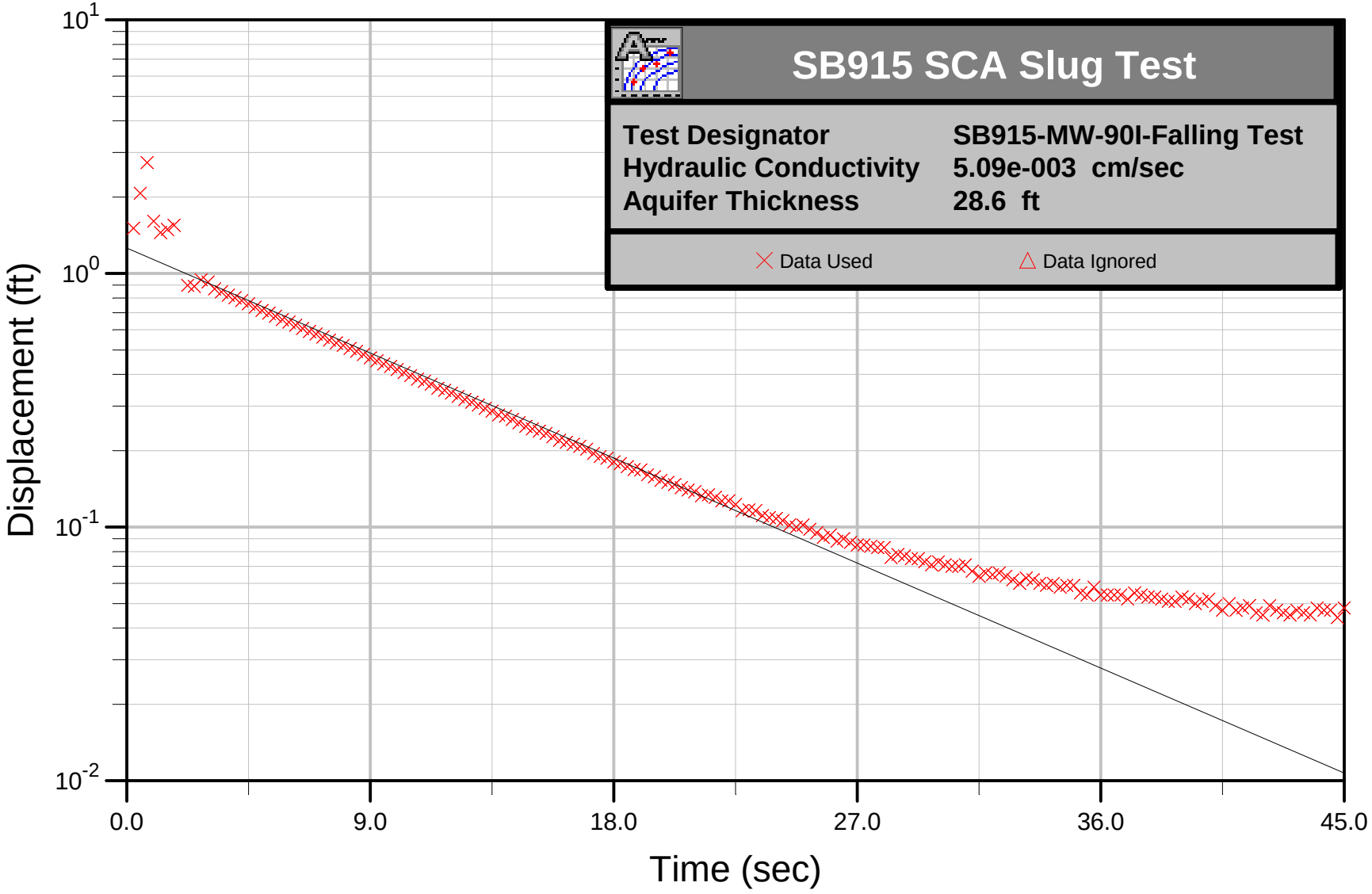
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.00
526.40
1052.80
1579.20
2105.60
2632.00
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-90BR-Falling Test
Hydraulic Conductivity 5.99e-005 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored

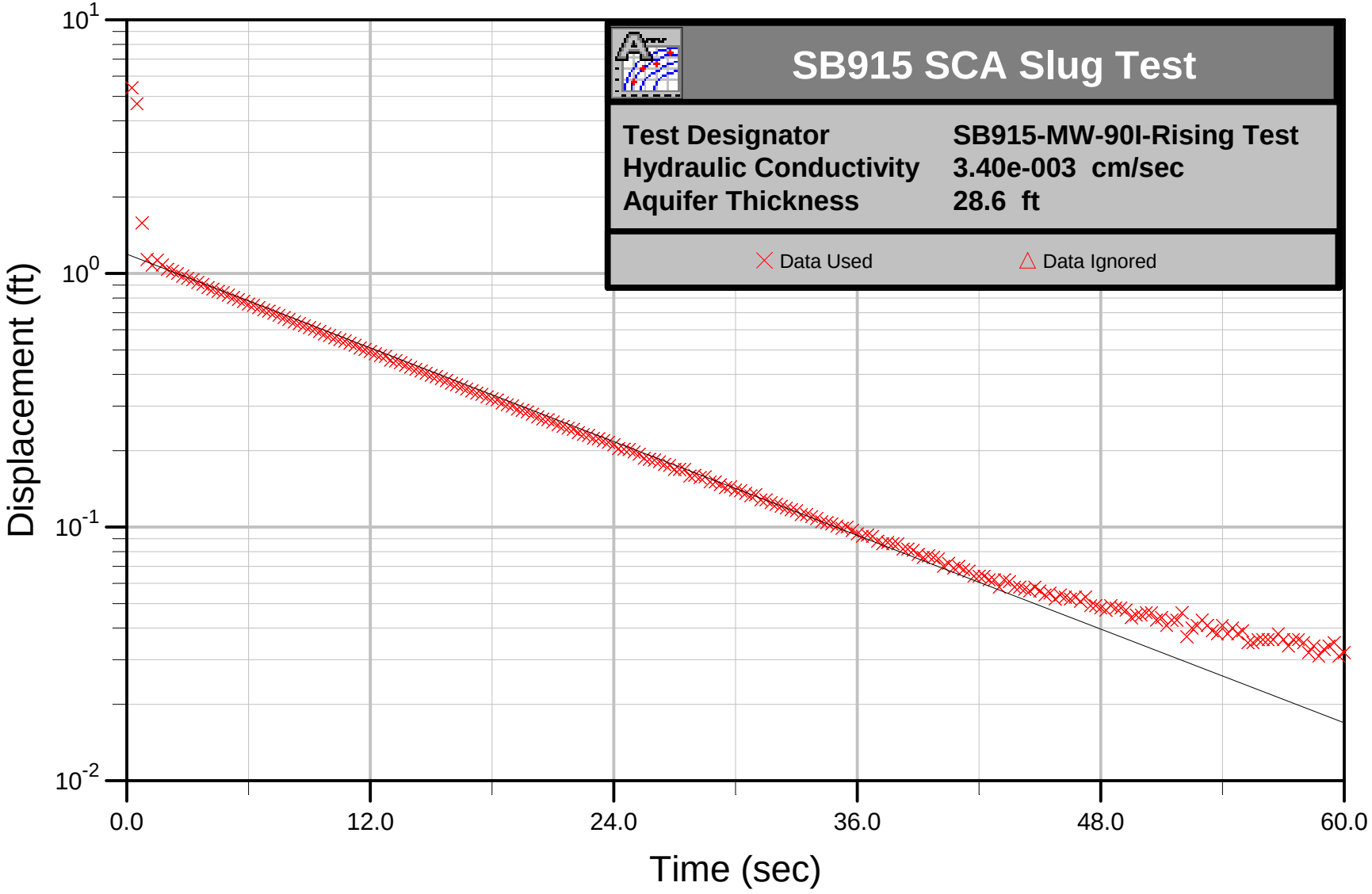
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-90BR-Rising Test
Hydraulic Conductivity 5.08e-005 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored
Displacement (ft)
10^1
10^0
10^{-1}
0.00
800.00
1600.00
2400.00
3200.00
4000.00
Time (sec)

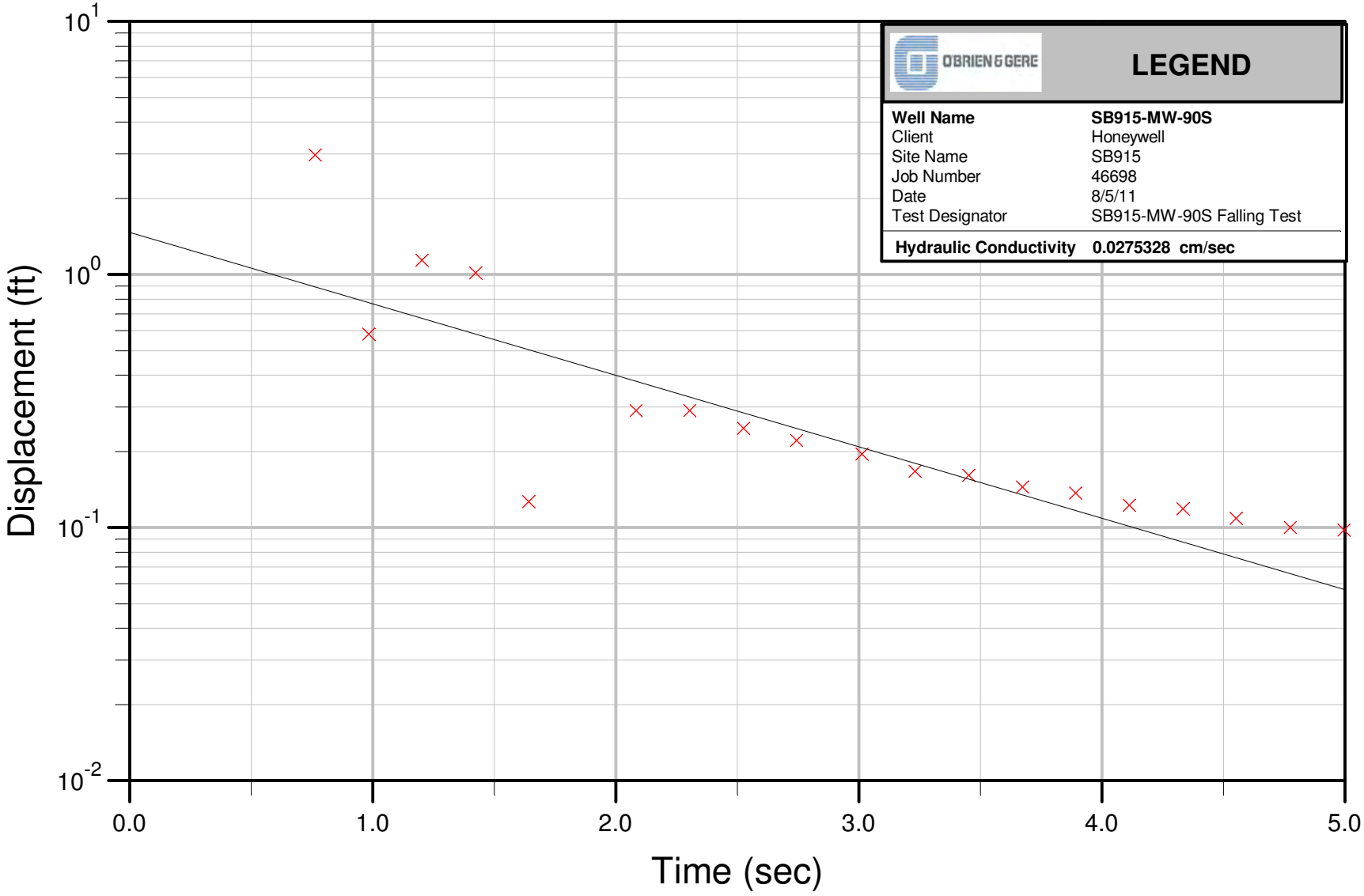
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-90I-Falling Test
Hydraulic Conductivity 5.09e-003 cm/sec
Aquifer Thickness 28.6 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
9.0
18.0
27.0
36.0
45.0
Time (sec)

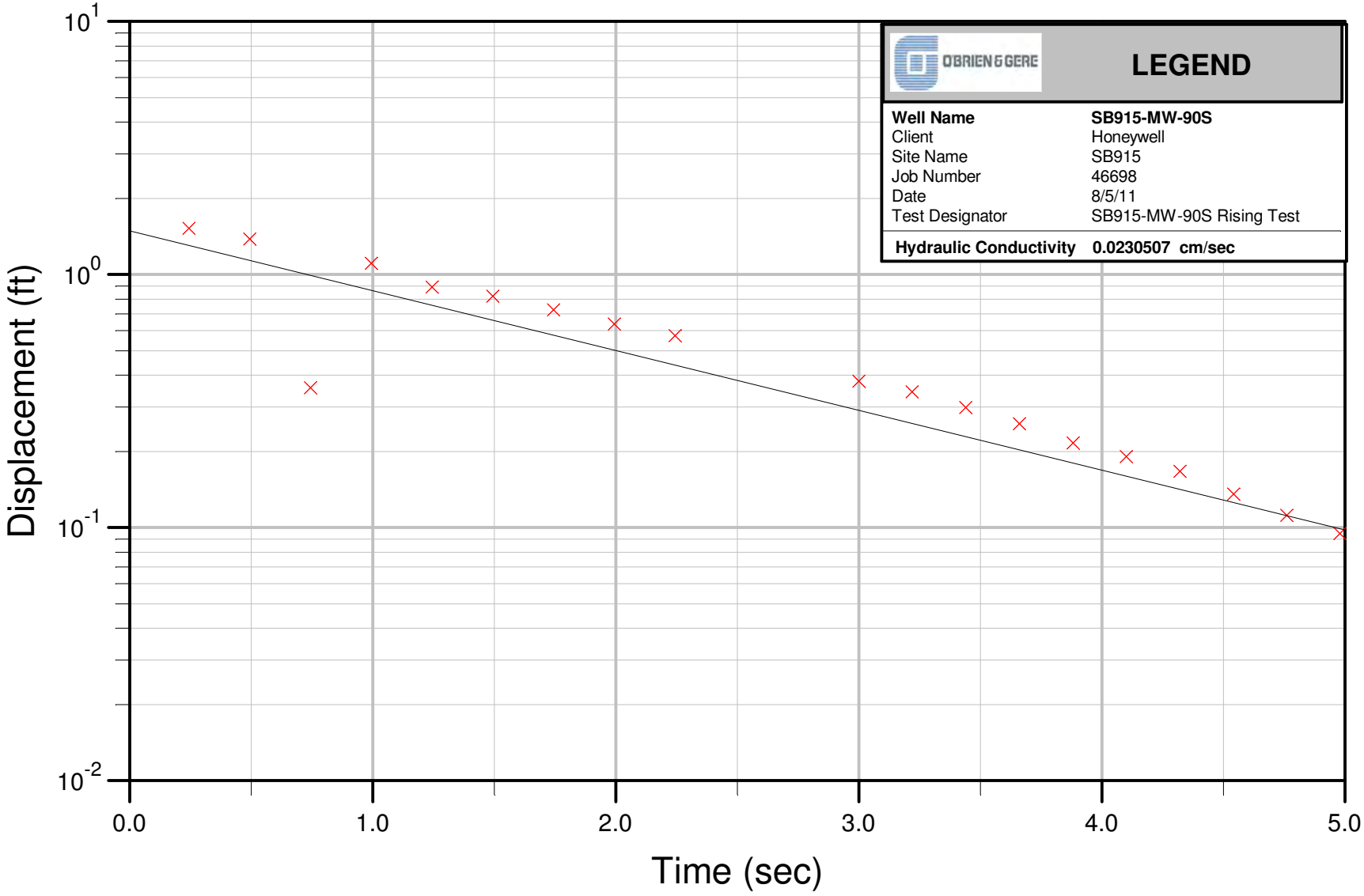
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-90I-Rising Test
Hydraulic Conductivity 3.40e-003 cm/sec
Aquifer Thickness 28.6 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
12.0
24.0
36.0
48.0
60.0
Time (sec)

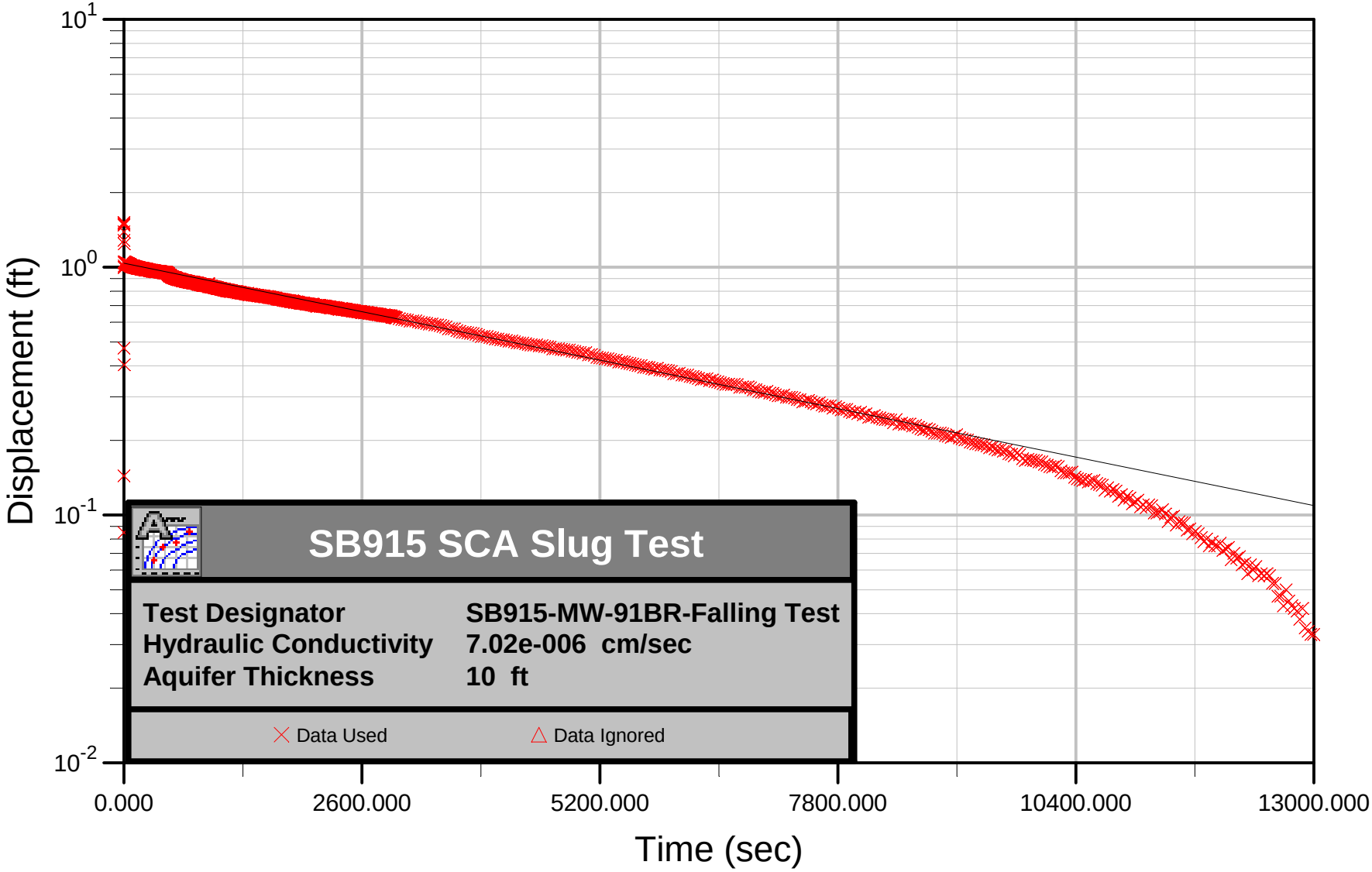
Bouwer & Rice


LEGEND
Well Name SB915-MW-90S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-90S Falling Test
Hydraulic Conductivity 0.0275328 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
1.0
2.0
3.0
4.0
5.0

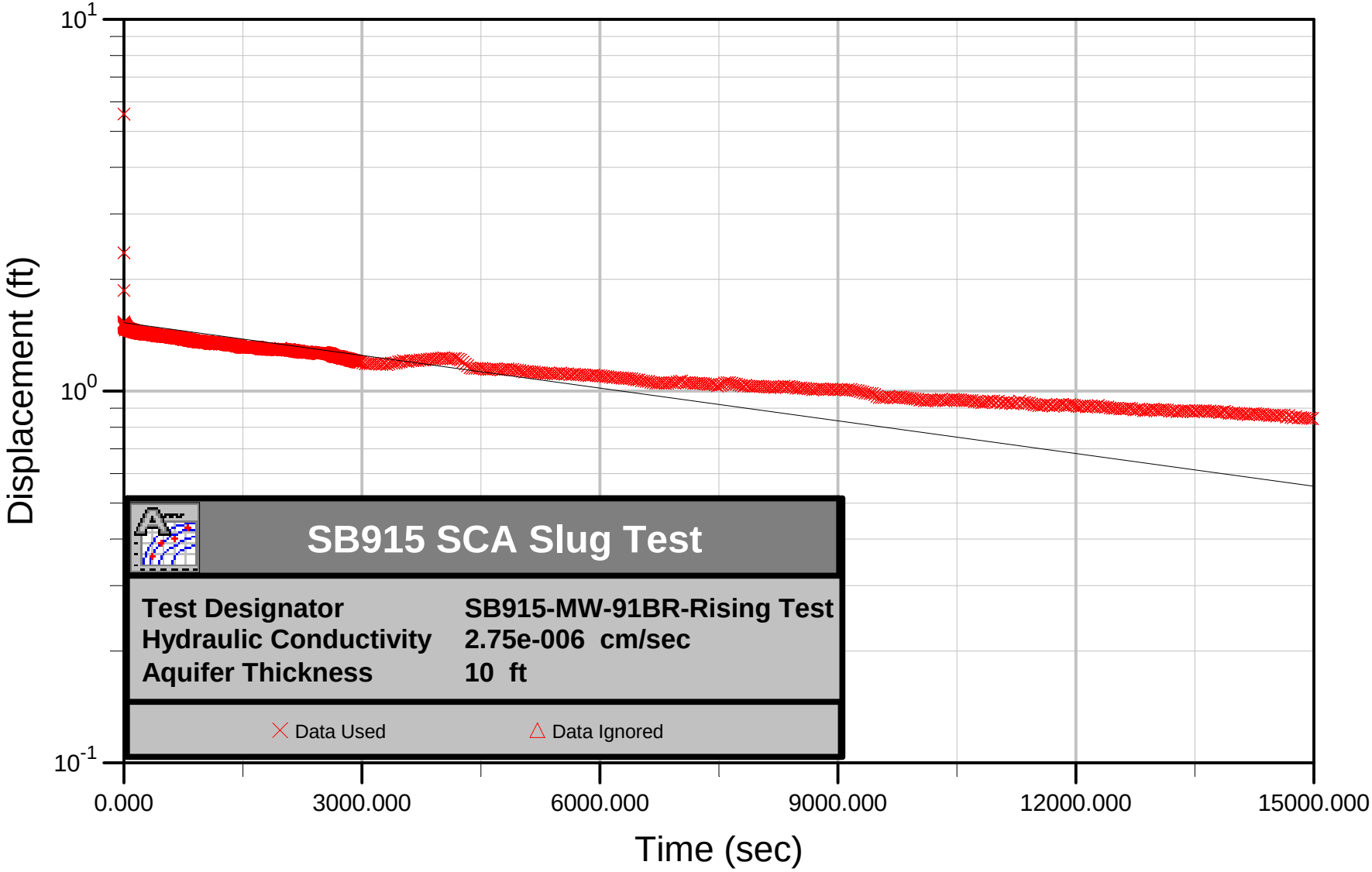
Bouwer & Rice


LEGEND
O'BRIEN & GERE
Well Name SB915-MW-90S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-90S Rising Test
Hydraulic Conductivity 0.0230507 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
1.0
2.0
3.0
4.0
5.0

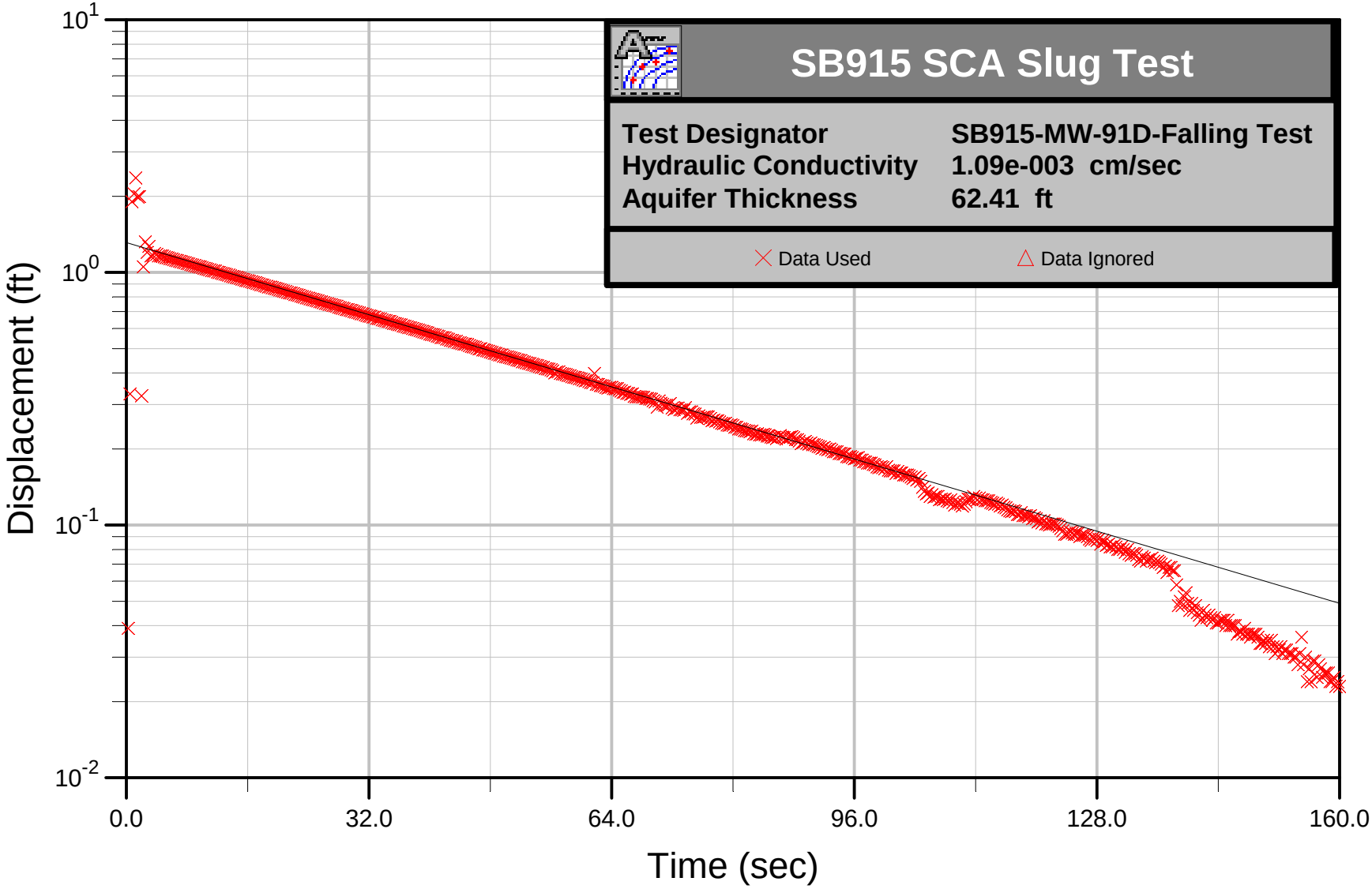
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
2600.000
5200.000
7800.000
10400.000
13000.000
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-91BR-Falling Test
Hydraulic Conductivity 7.02e-006 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored

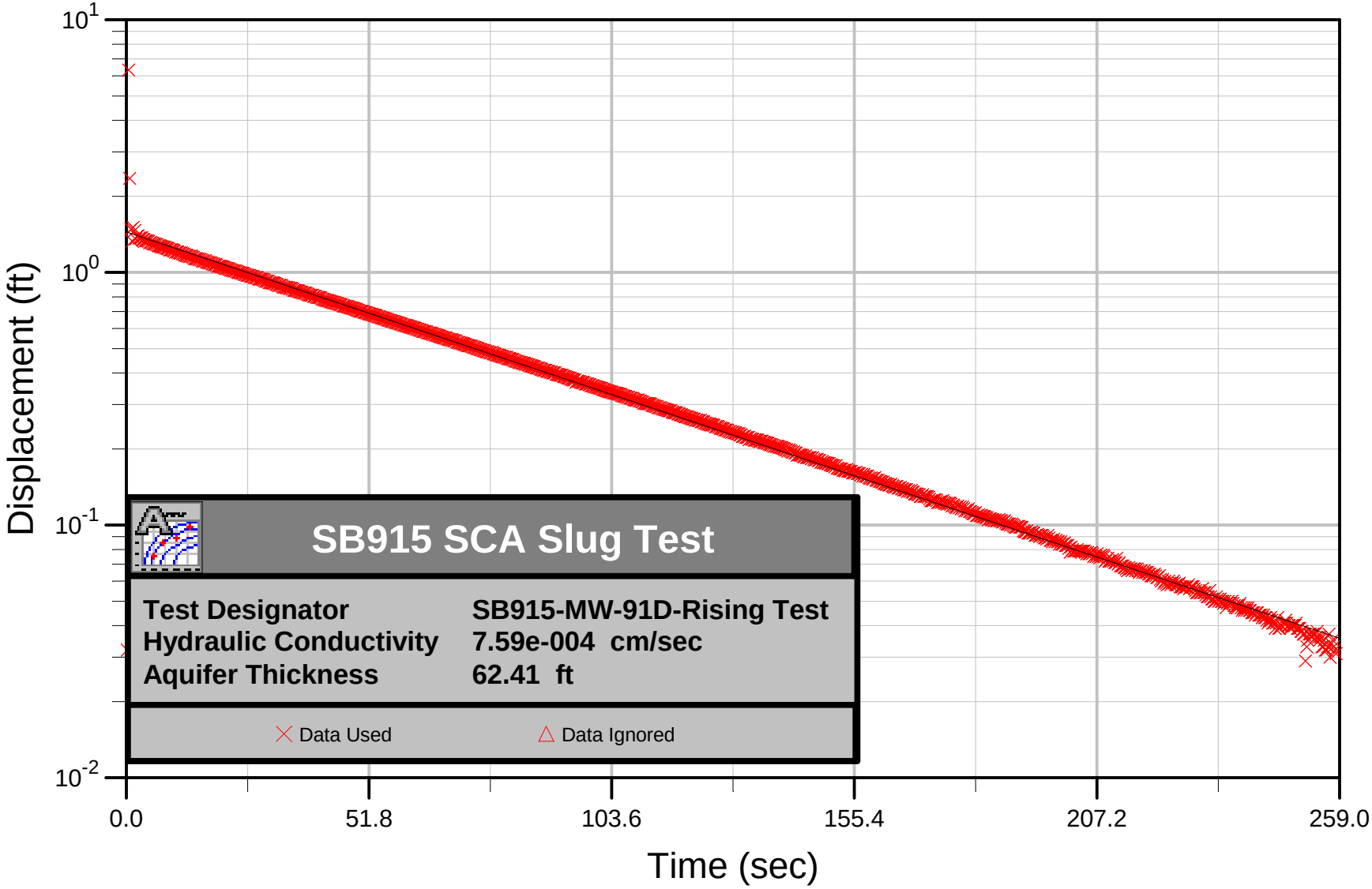
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
0.000
3000.000
6000.000
9000.000
12000.000
15000.000
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-91BR-Rising Test
Hydraulic Conductivity 2.75e-006 cm/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored

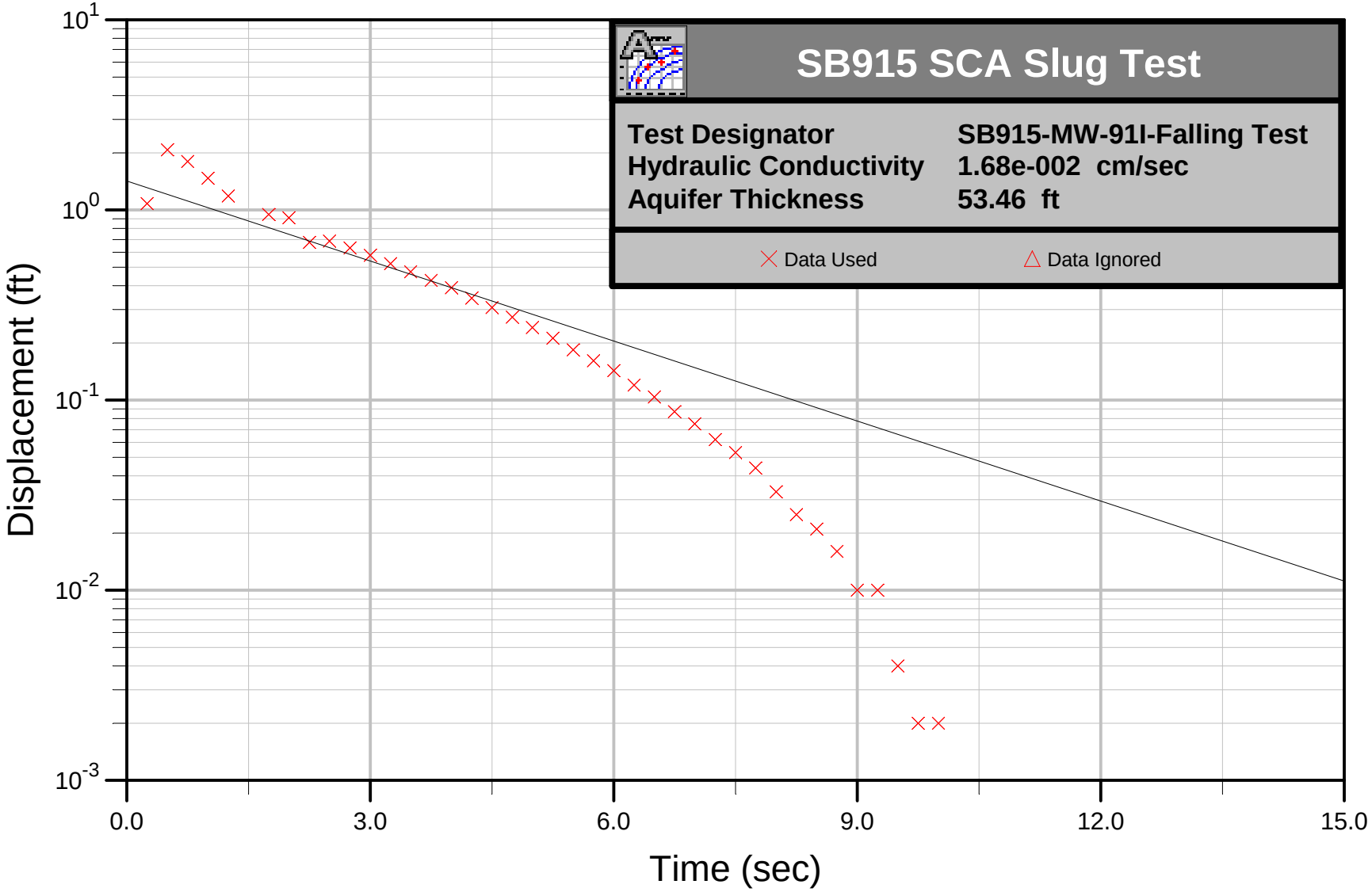
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-91D-Falling Test
Hydraulic Conductivity 1.09e-003 cm/sec
Aquifer Thickness 62.41 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
32.0
64.0
96.0
128.0
160.0
Time (sec)

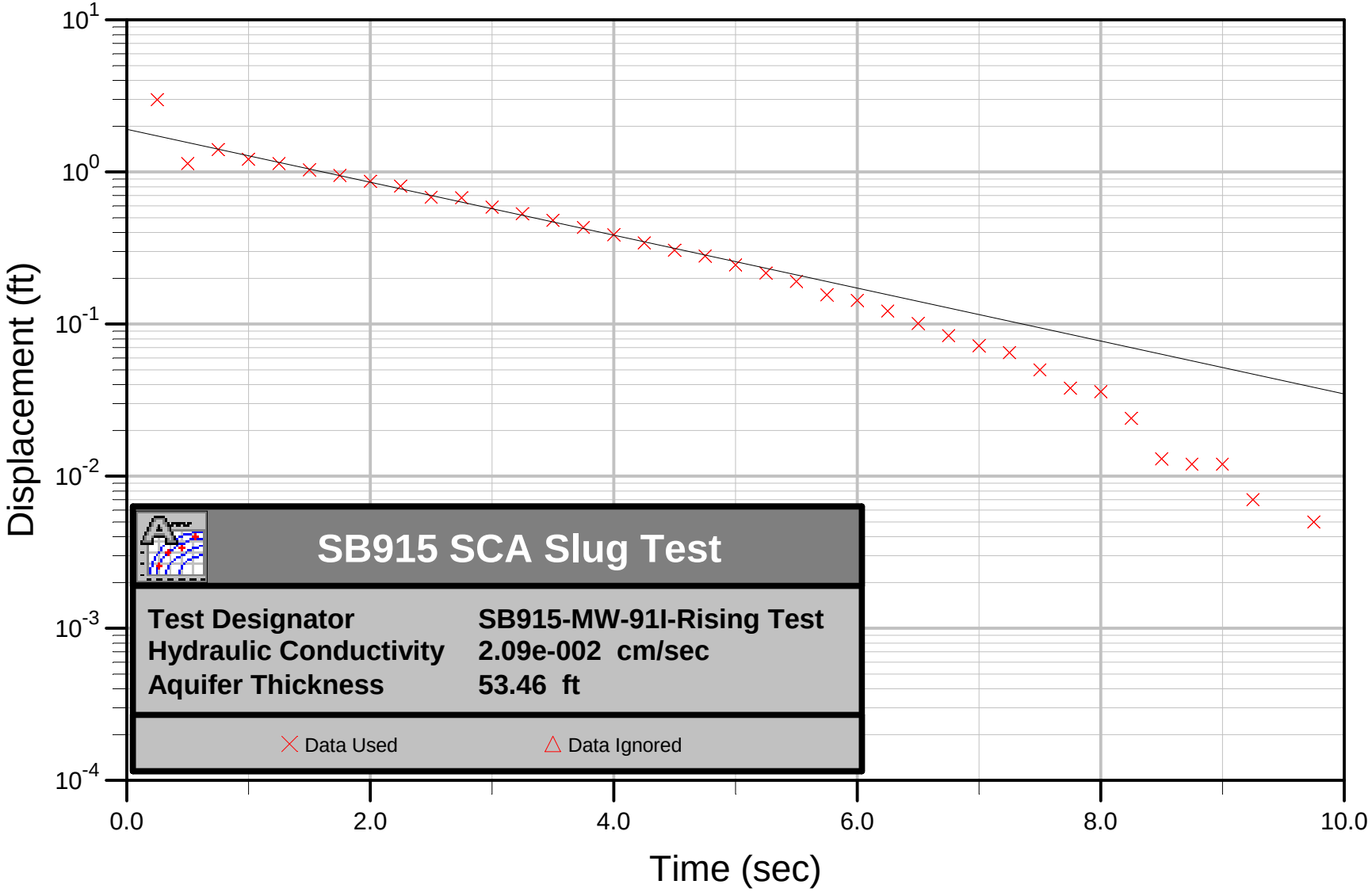
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
51.8
103.6
155.4
207.2
259.0
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-91D-Rising Test
Hydraulic Conductivity 7.59e-004 cm/sec
Aquifer Thickness 62.41 ft
Data Used
Data Ignored

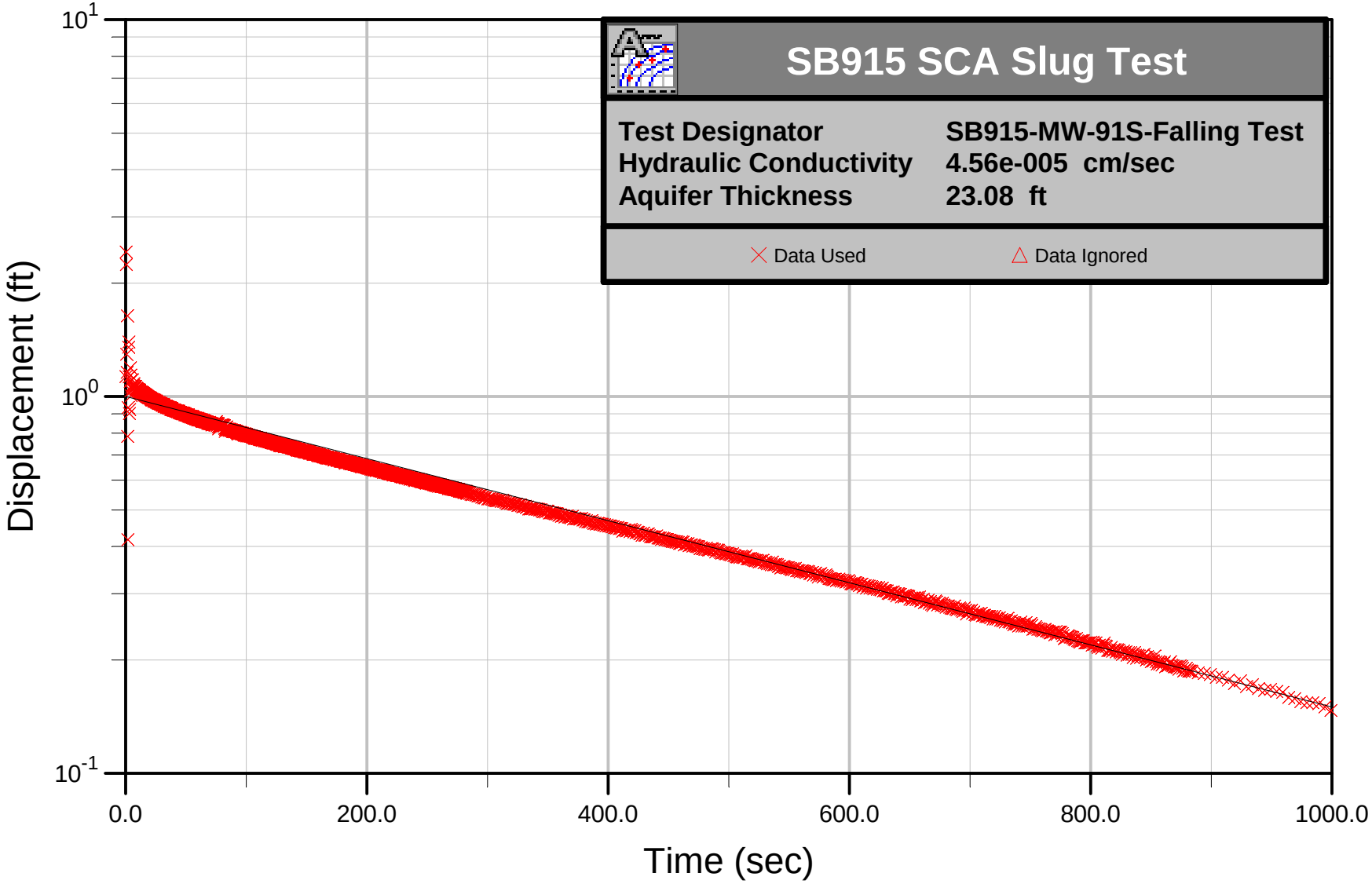
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-91I-Falling Test
Hydraulic Conductivity 1.68e-002 cm/sec
Aquifer Thickness 53.46 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
3.0
6.0
9.0
12.0
15.0
Time (sec)

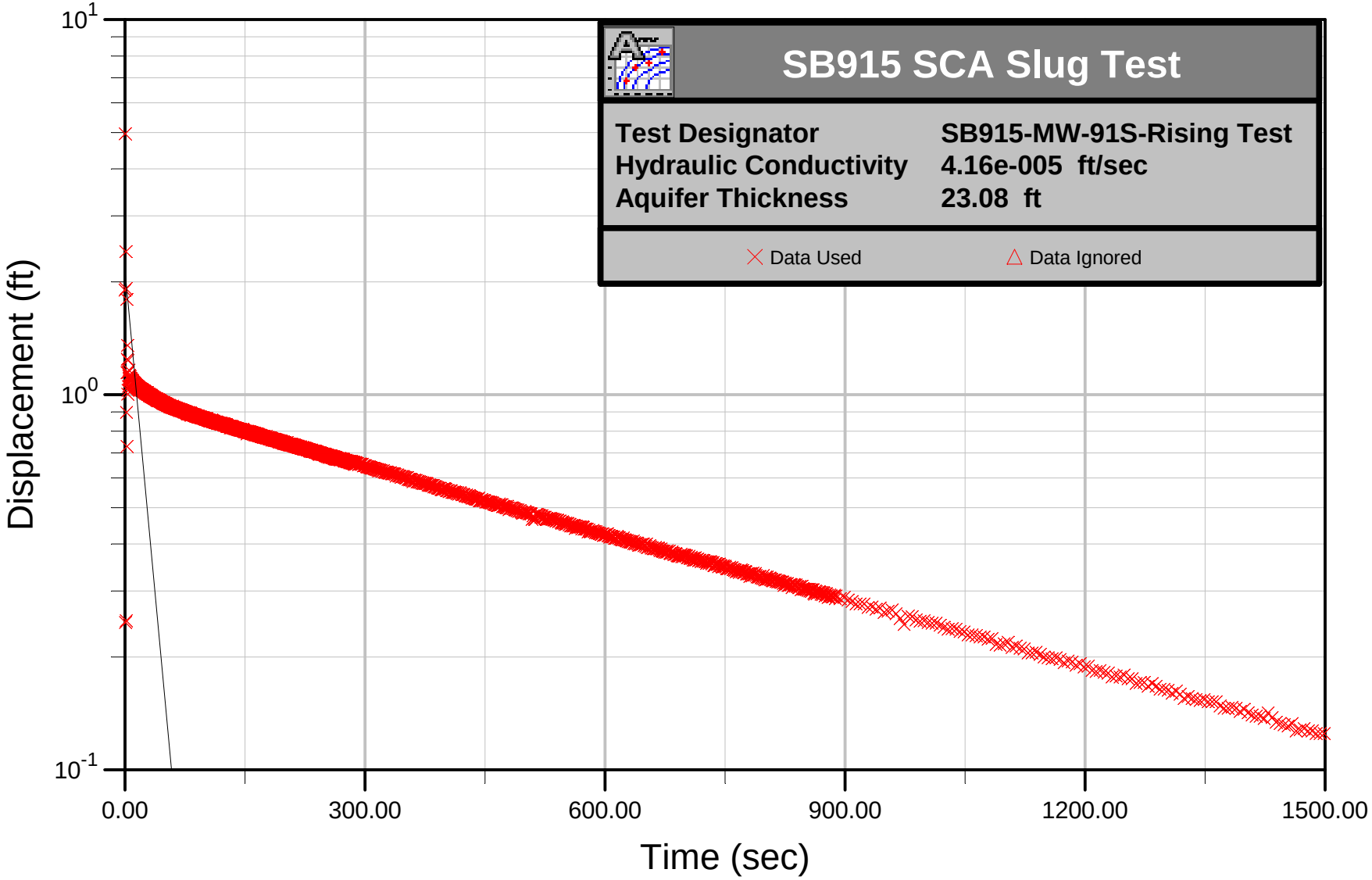
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0.0
2.0
4.0
6.0
8.0
10.0
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-91I-Rising Test
Hydraulic Conductivity 2.09e-002 cm/sec
Aquifer Thickness 53.46 ft
Data Used
Data Ignored

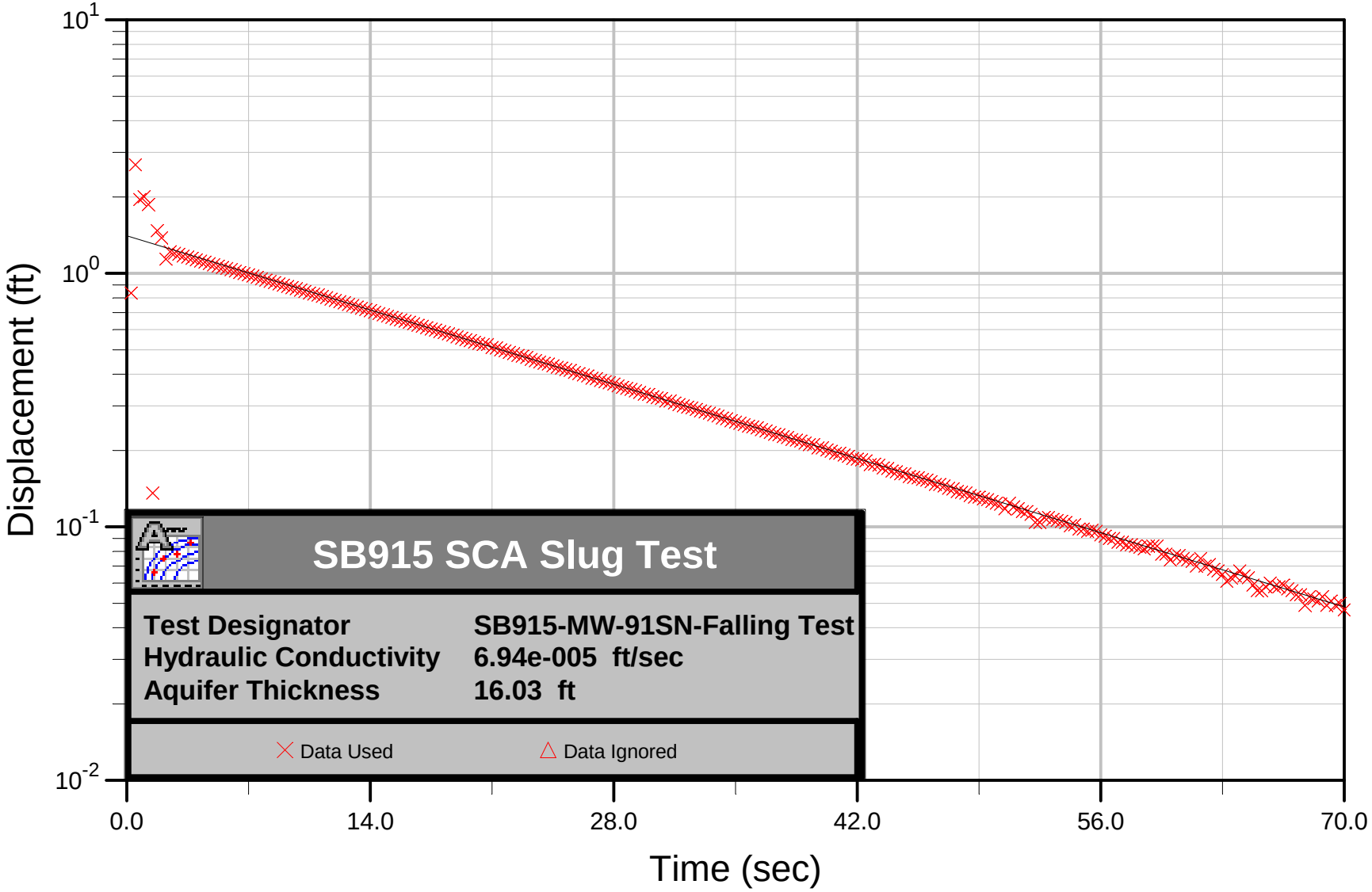
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-91S-Falling Test
Hydraulic Conductivity 4.56e-005 cm/sec
Aquifer Thickness 23.08 ft
Data Used
Data Ignored
Displacement (ft)
10^1
10^0
10^{-1}
0.0
200.0
400.0
600.0
800.0
1000.0
Time (sec)

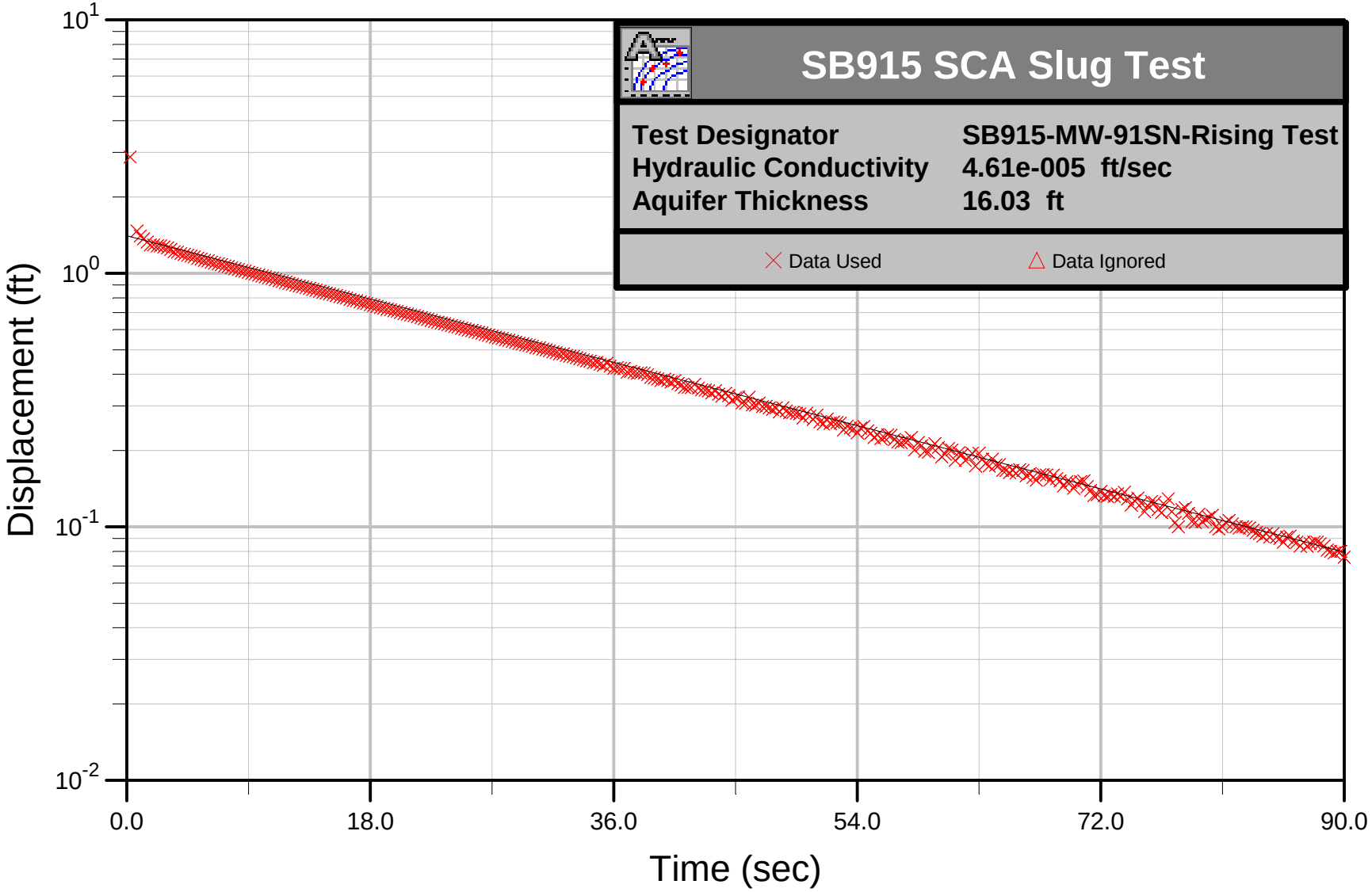
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-91S-Rising Test
Hydraulic Conductivity 4.16e-005 ft/sec
Aquifer Thickness 23.08 ft
Data Used
Data Ignored
Displacement (ft)
10^1
10^0
10^{-1}
0.00
300.00
600.00
900.00
1200.00
1500.00
Time (sec)

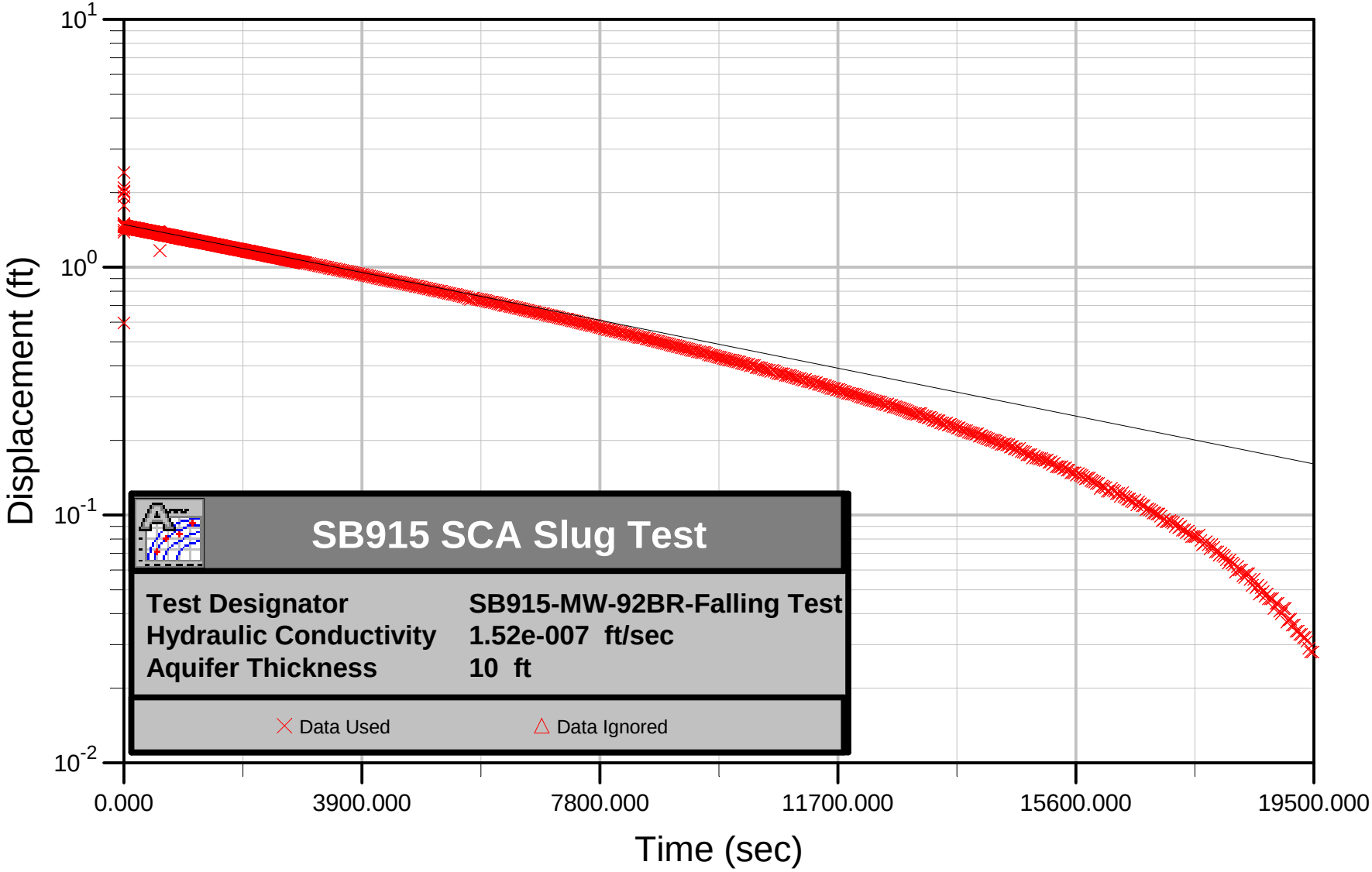
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
14.0
28.0
42.0
56.0
70.0
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-91SN-Falling Test
Hydraulic Conductivity 6.94e-005 ft/sec
Aquifer Thickness 16.03 ft
Data Used
Data Ignored

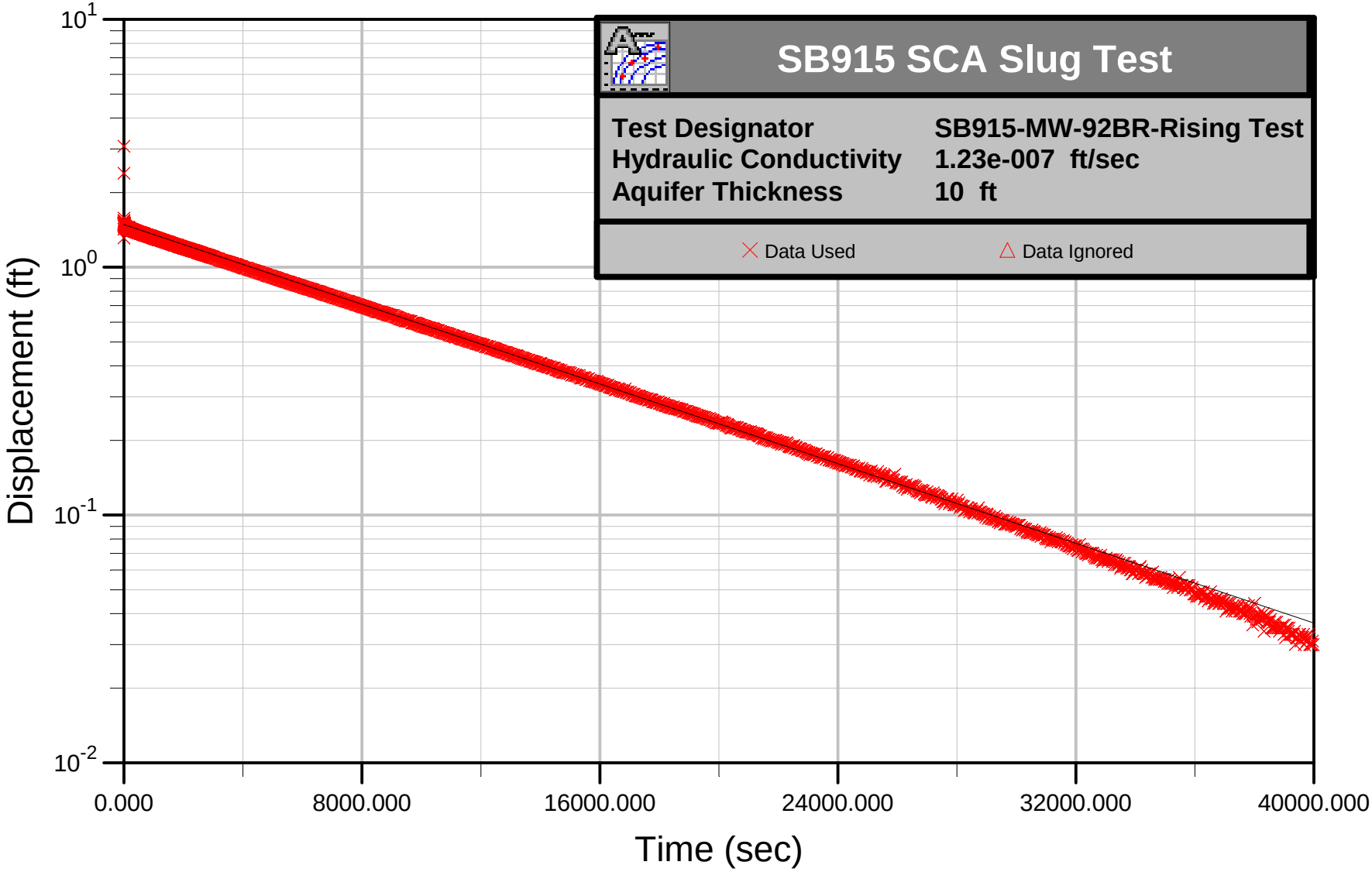
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-91SN-Rising Test
Hydraulic Conductivity 4.61e-005 ft/sec
Aquifer Thickness 16.03 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
18.0
36.0
54.0
72.0
90.0
Time (sec)

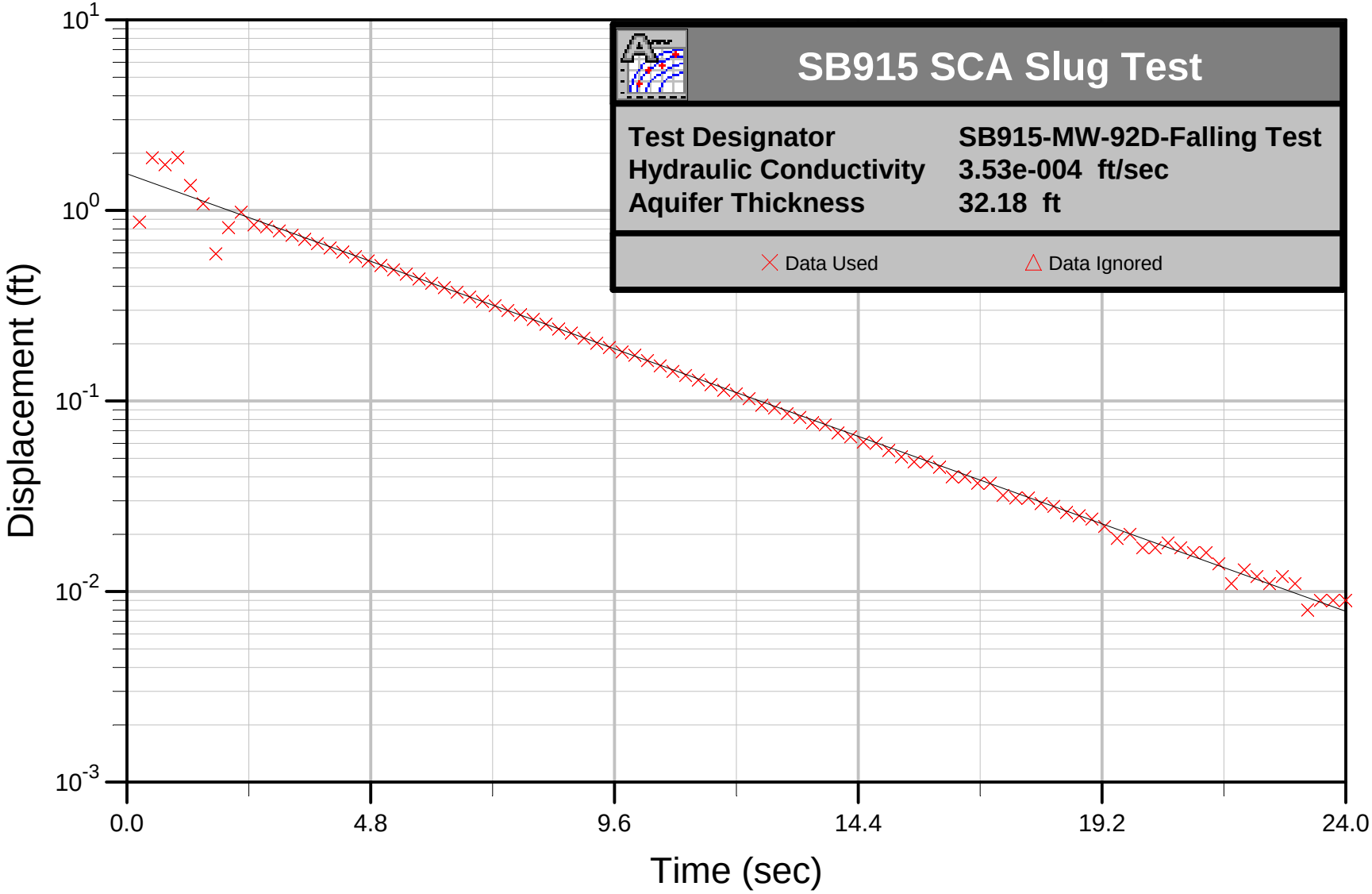
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
3900.000
7800.000
11700.000
15600.000
19500.000
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-92BR-Falling Test
Hydraulic Conductivity 1.52e-007 ft/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored

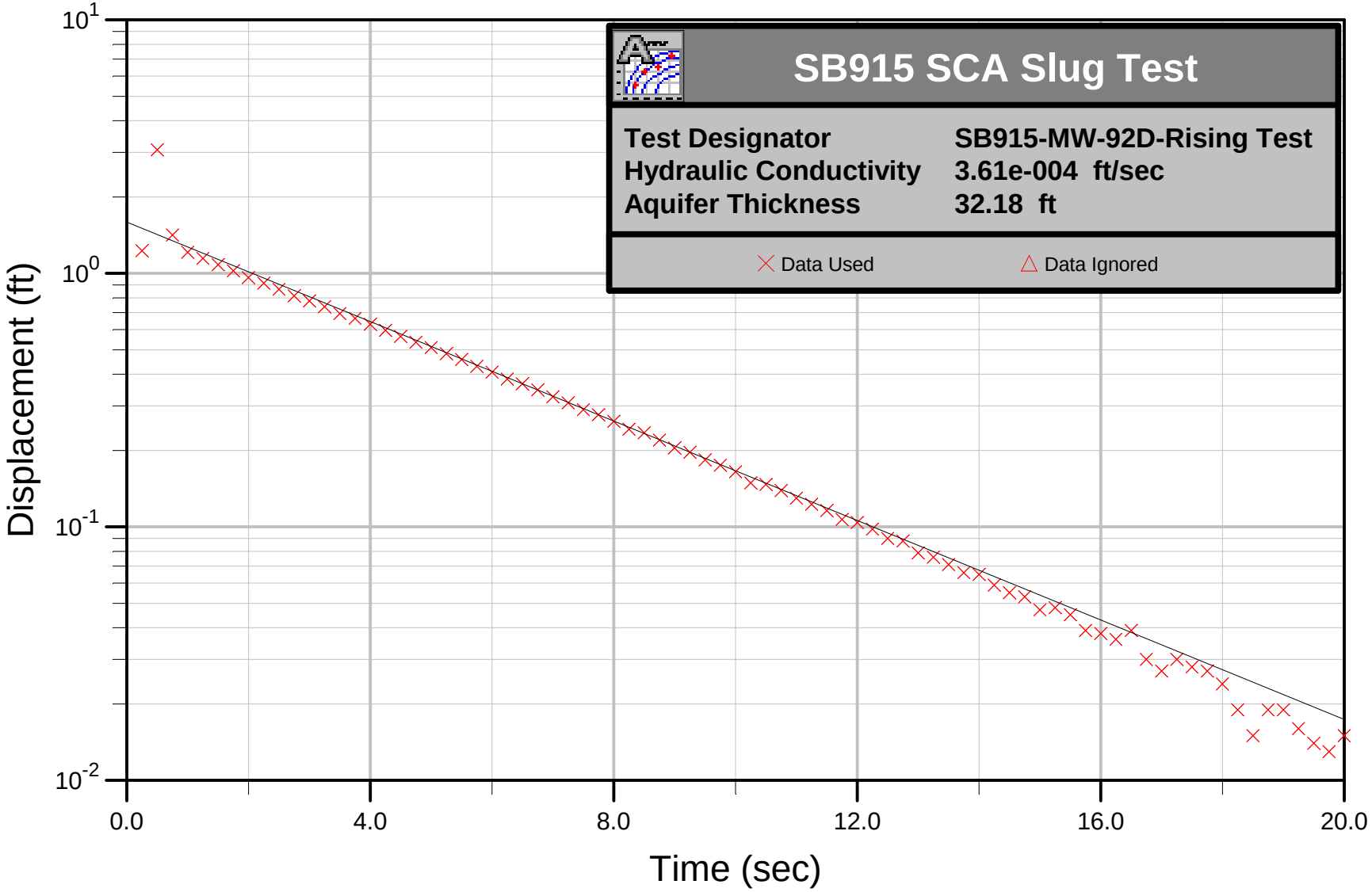
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-92BR-Rising Test
Hydraulic Conductivity 1.23e-007 ft/sec
Aquifer Thickness 10 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
8000.000
16000.000
24000.000
32000.000
40000.000
Time (sec)

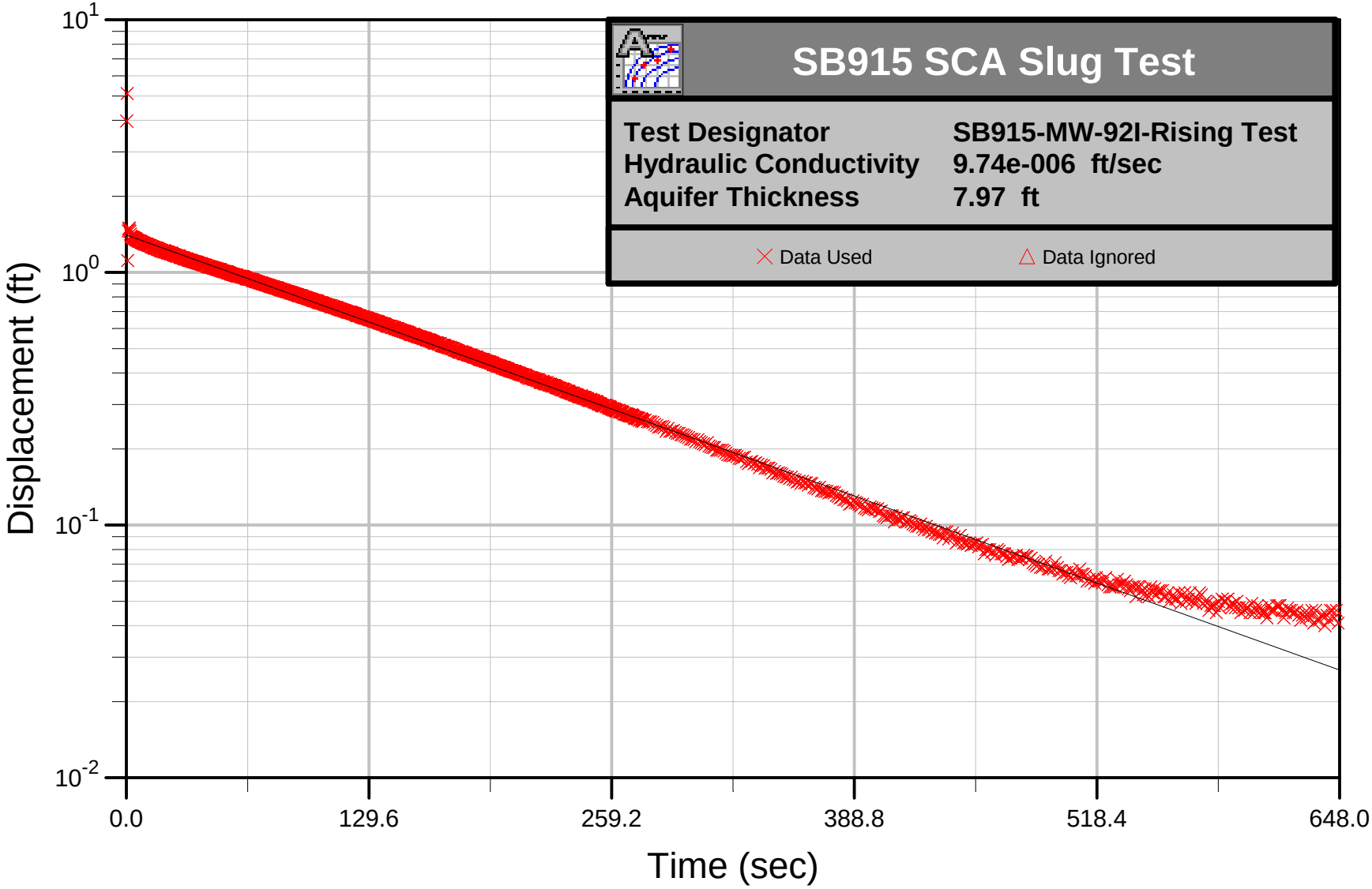
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-92D-Falling Test
Hydraulic Conductivity 3.53e-004 ft/sec
Aquifer Thickness 32.18 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
4.8
9.6
14.4
19.2
24.0
Time (sec)

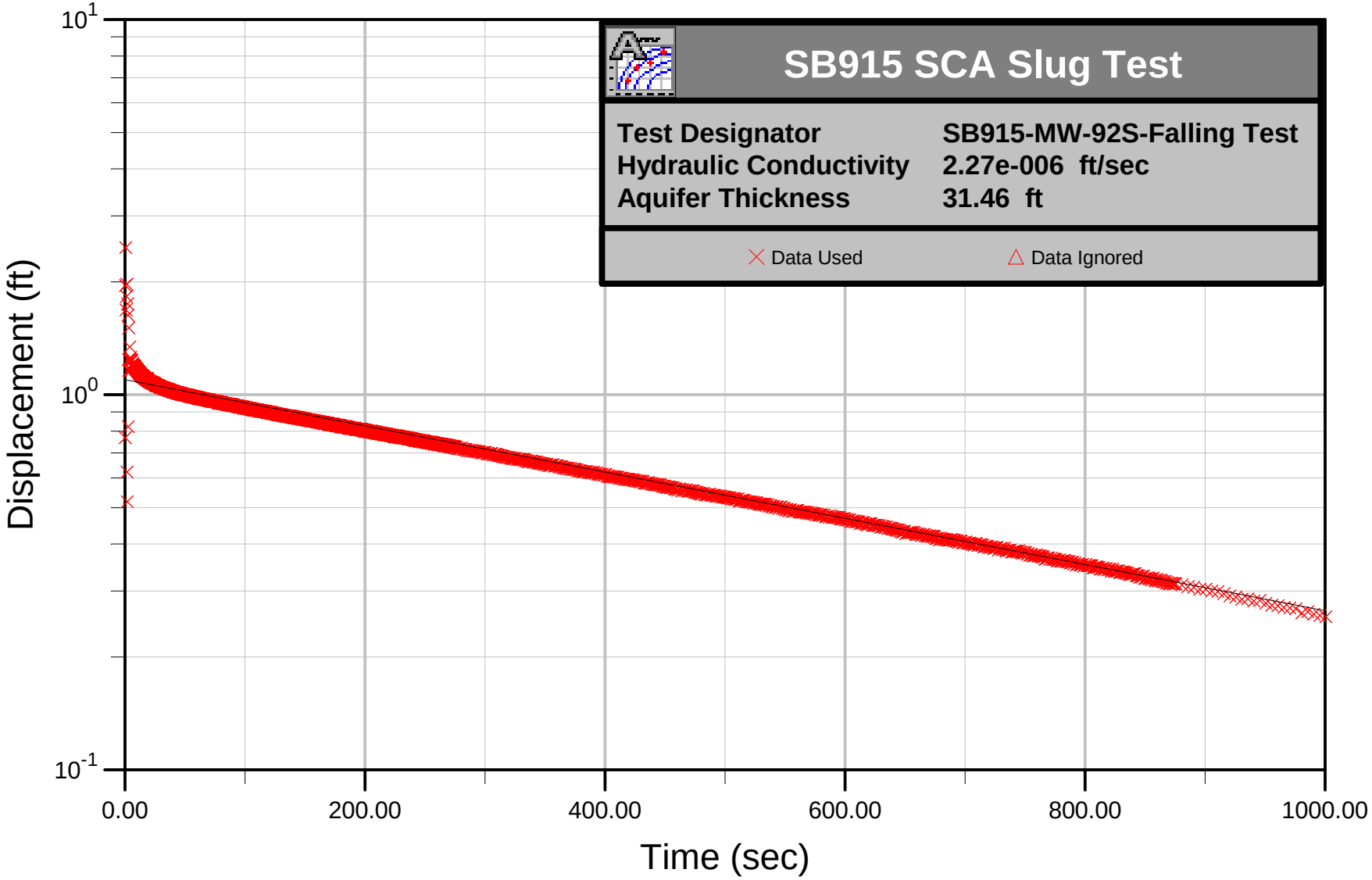
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-92D-Rising Test
Hydraulic Conductivity 3.61e-004 ft/sec
Aquifer Thickness 32.18 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
4.0
8.0
12.0
16.0
20.0
Time (sec)

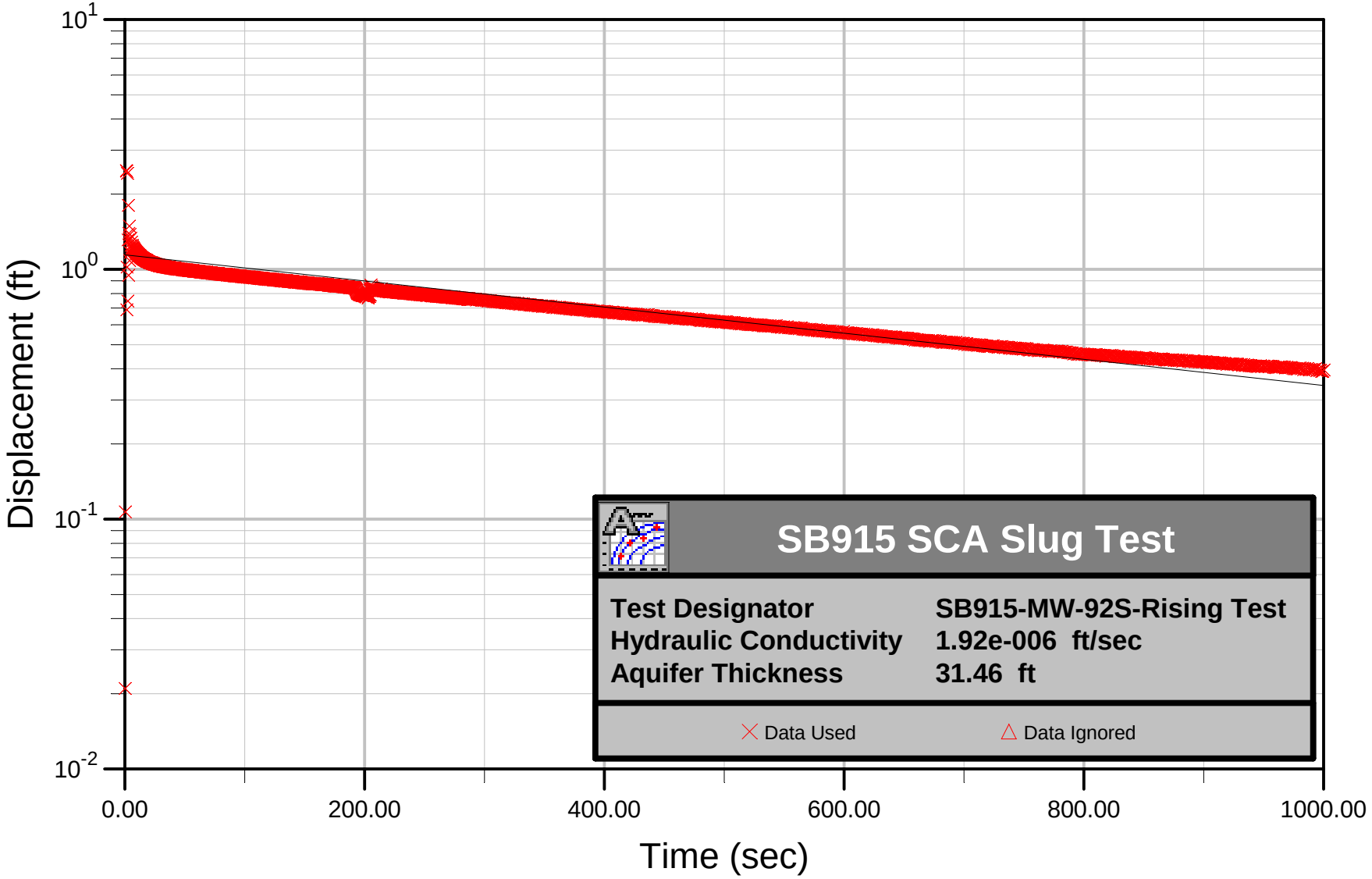
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-92I-Rising Test
Hydraulic Conductivity 9.74e-006 ft/sec
Aquifer Thickness 7.97 ft
Data Used
Data Ignored
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
129.6
259.2
388.8
518.4
648.0
Time (sec)

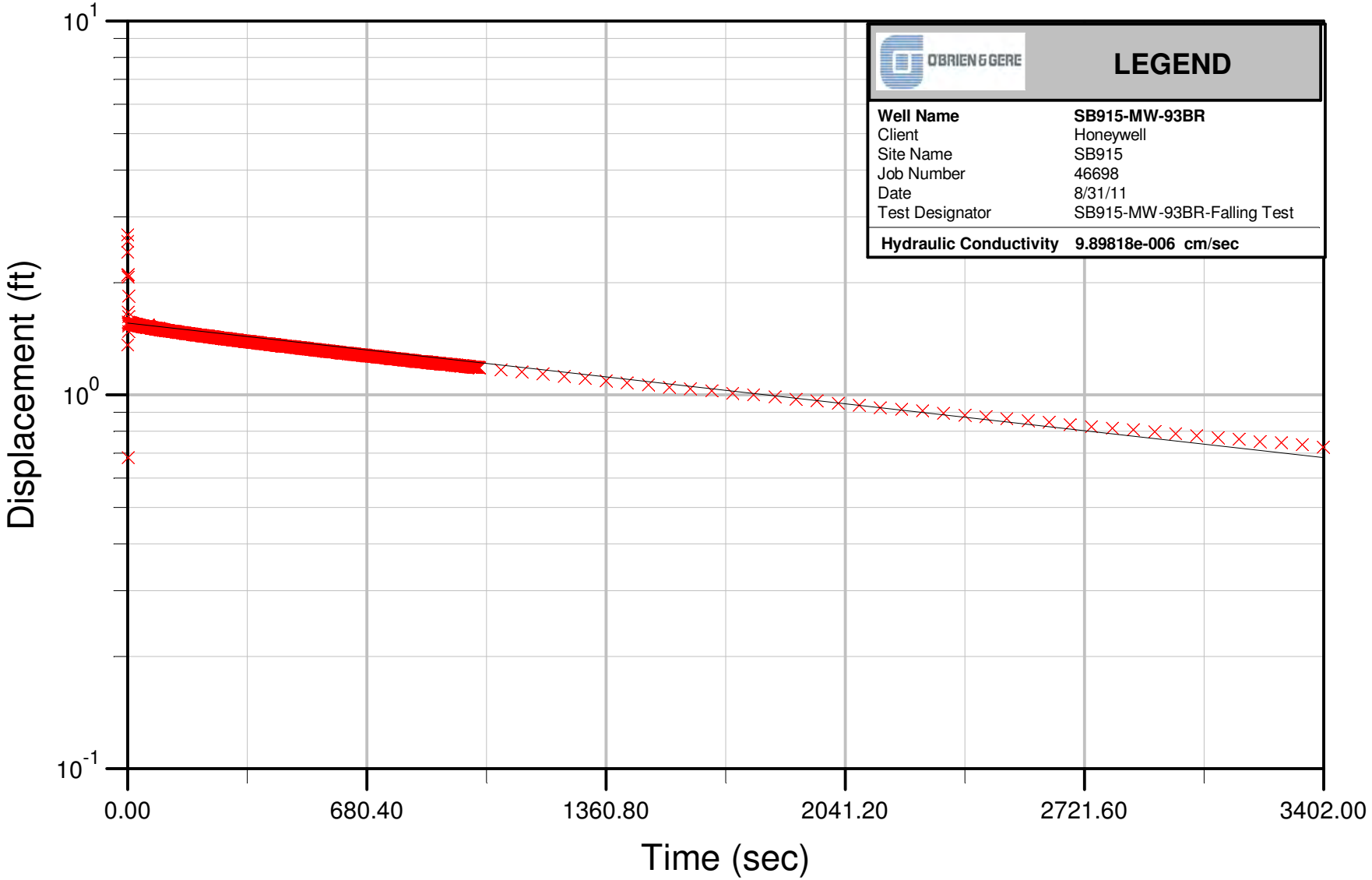
Bouwer & Rice


SB915 SCA Slug Test
Test Designator SB915-MW-92S-Falling Test
Hydraulic Conductivity 2.27e-006 ft/sec
Aquifer Thickness 31.46 ft
Data Used
Data Ignored
Displacement (ft)
10^1
10^0
10^{-1}
0.00
200.00
400.00
600.00
800.00
1000.00
Time (sec)

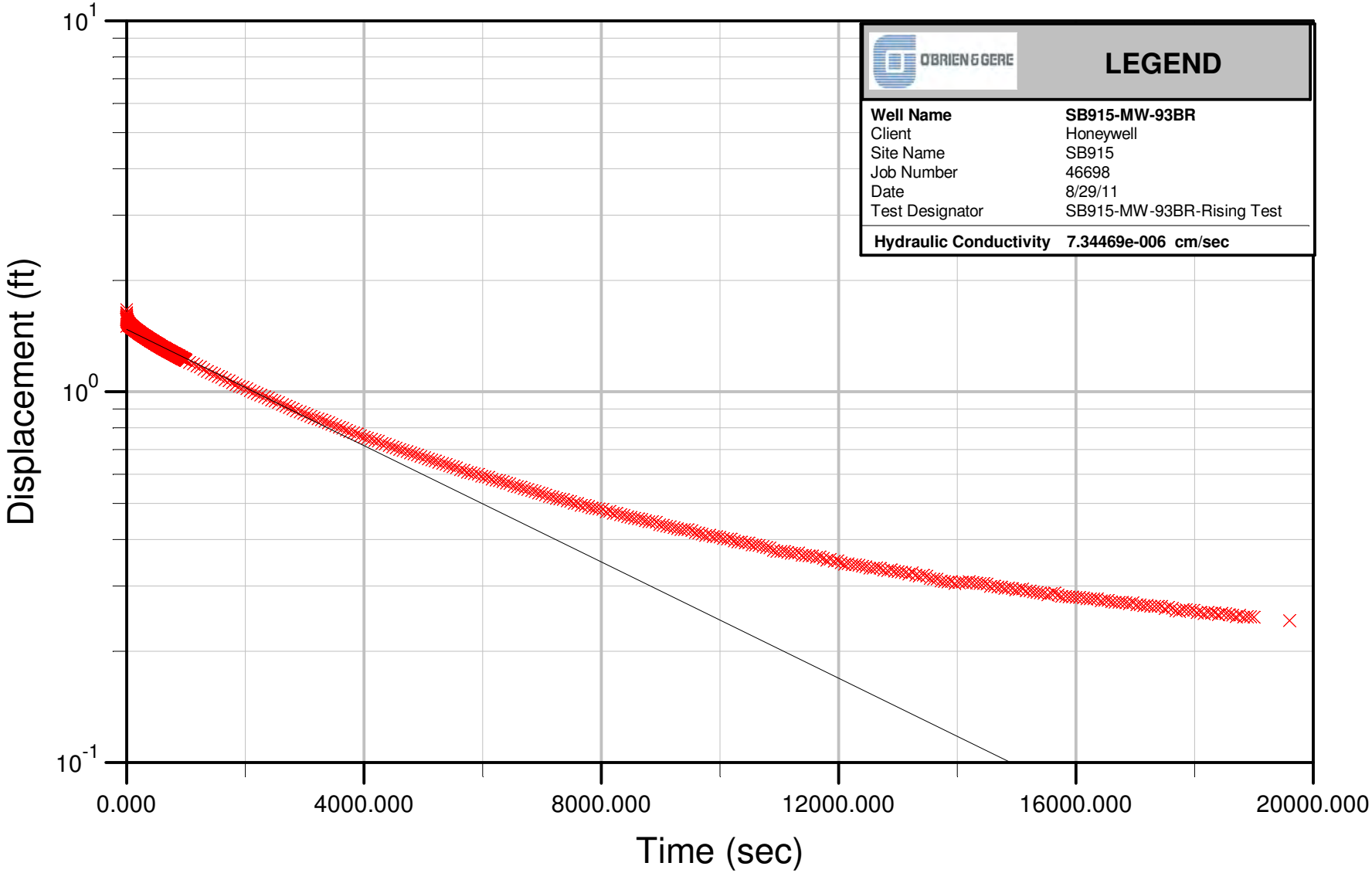
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
200.00
400.00
600.00
800.00
1000.00
Time (sec)
SB915 SCA Slug Test
Test Designator SB915-MW-92S-Rising Test
Hydraulic Conductivity 1.92e-006 ft/sec
Aquifer Thickness 31.46 ft
Data Used
Data Ignored

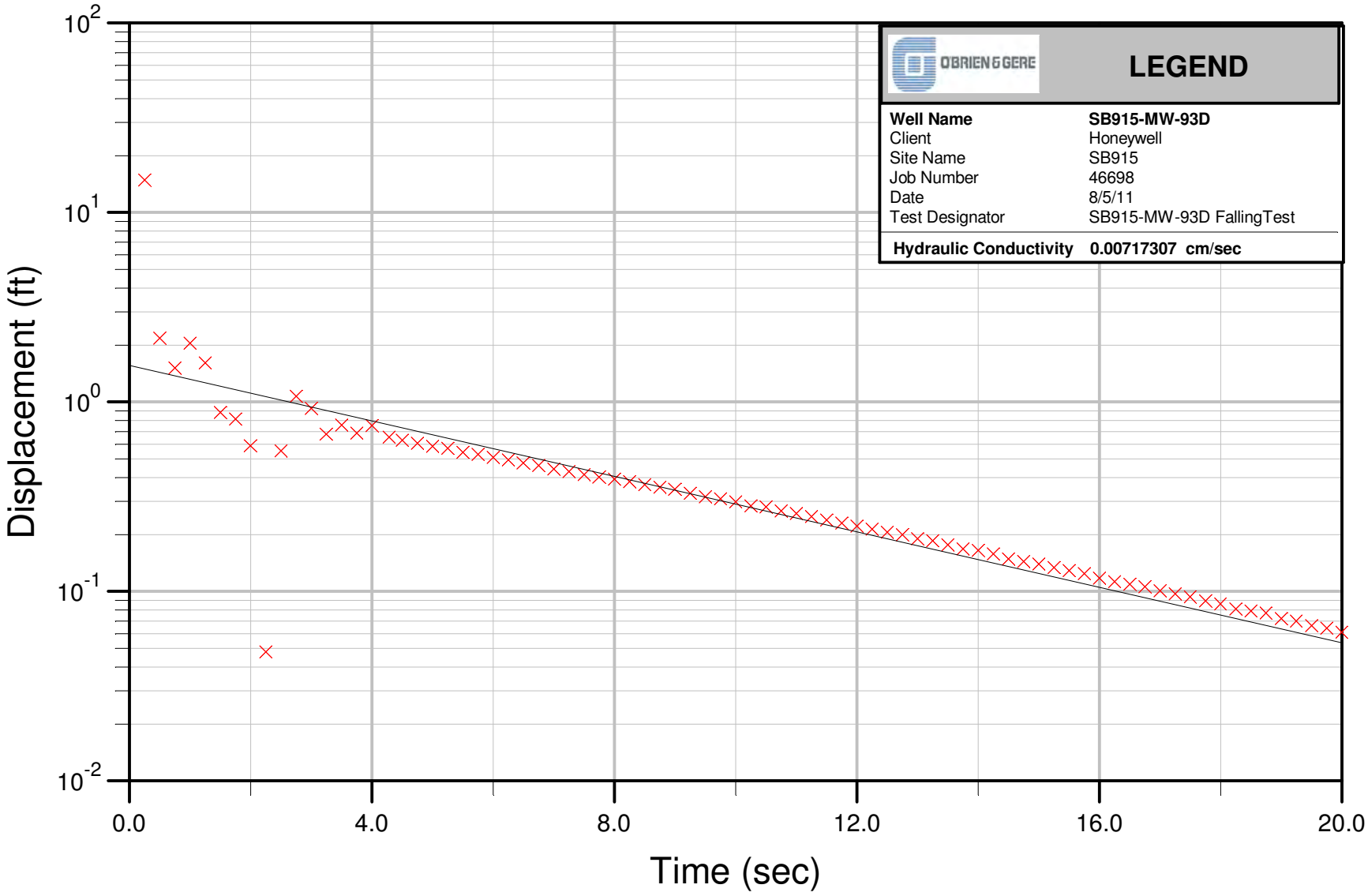
Bouwer & Rice


LEGEND
O'BRIEN & GERE
Well Name SB915-MW-93BR
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/31/11
Test Designator SB915-MW-93BR-Falling Test
Hydraulic Conductivity 9.89818e-006 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
0.00
680.40
1360.80
2041.20
2721.60
3402.00
Time (sec)

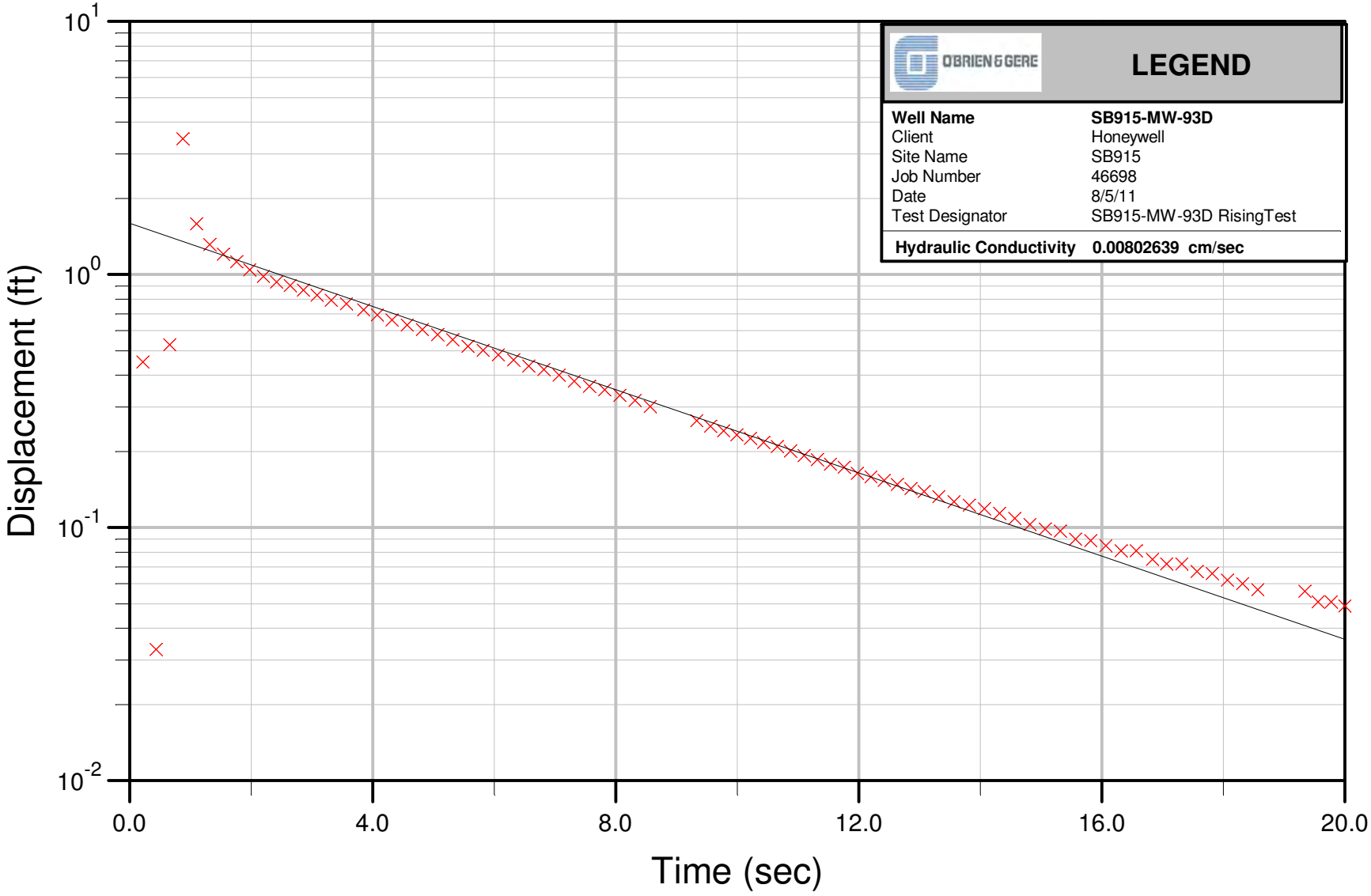
Bouwer & Rice


LEGEND
O'BRIEN & GERE
Well Name SB915-MW-93BR
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/29/11
Test Designator SB915-MW-93BR-Rising Test
Hydraulic Conductivity 7.34469e-006 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.000
4000.000
8000.000
12000.000
16000.000
20000.000
Time (sec)

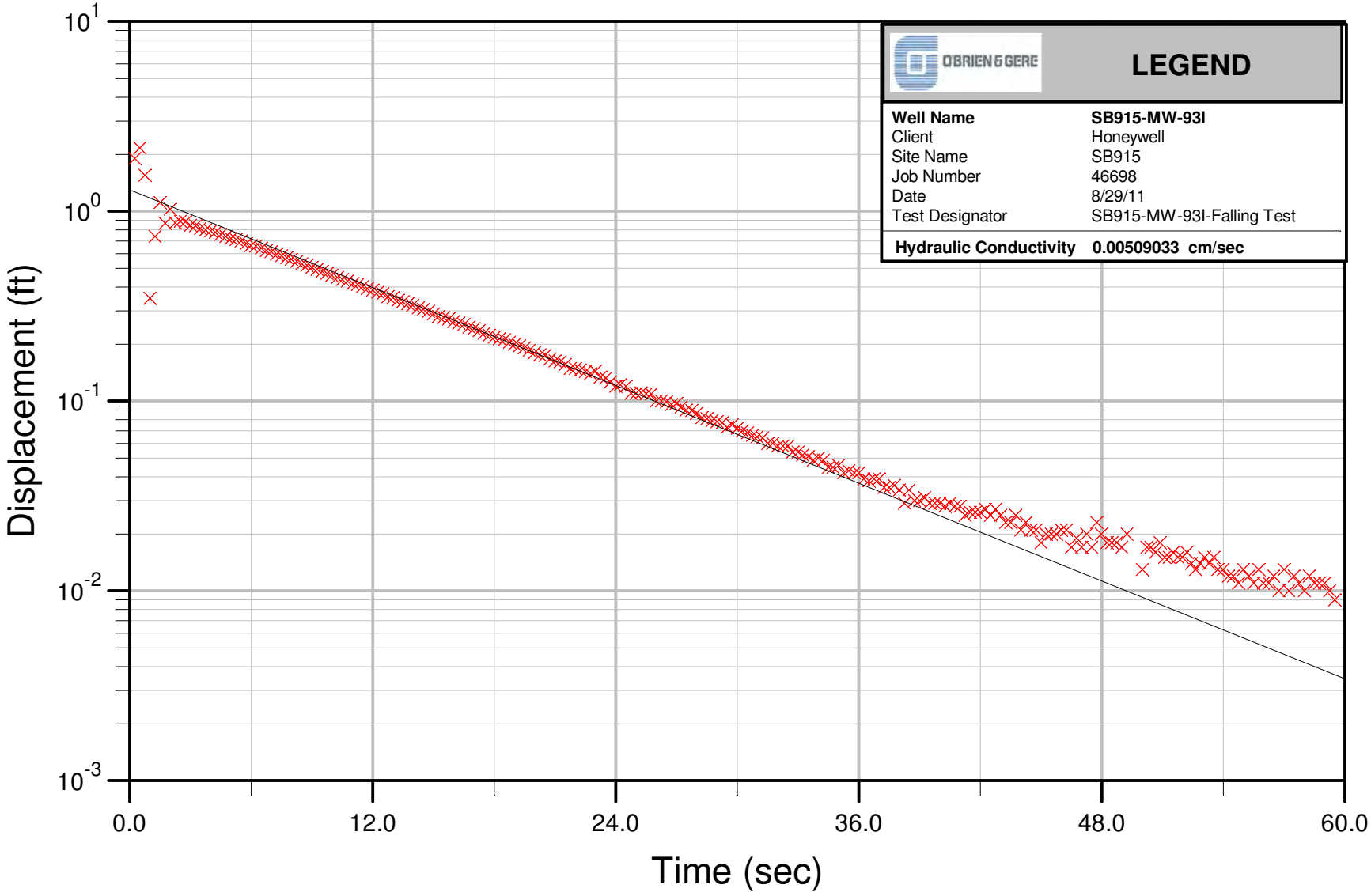
Bouwer & Rice


LEGEND
Well Name SB915-MW-93D
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-93D FallingTest
Hydraulic Conductivity 0.00717307 cm/sec
Displacement (ft)
Time (sec)
10^2
10^1
10^0
10^-1
10^-2
0.0
4.0
8.0
12.0
16.0
20.0

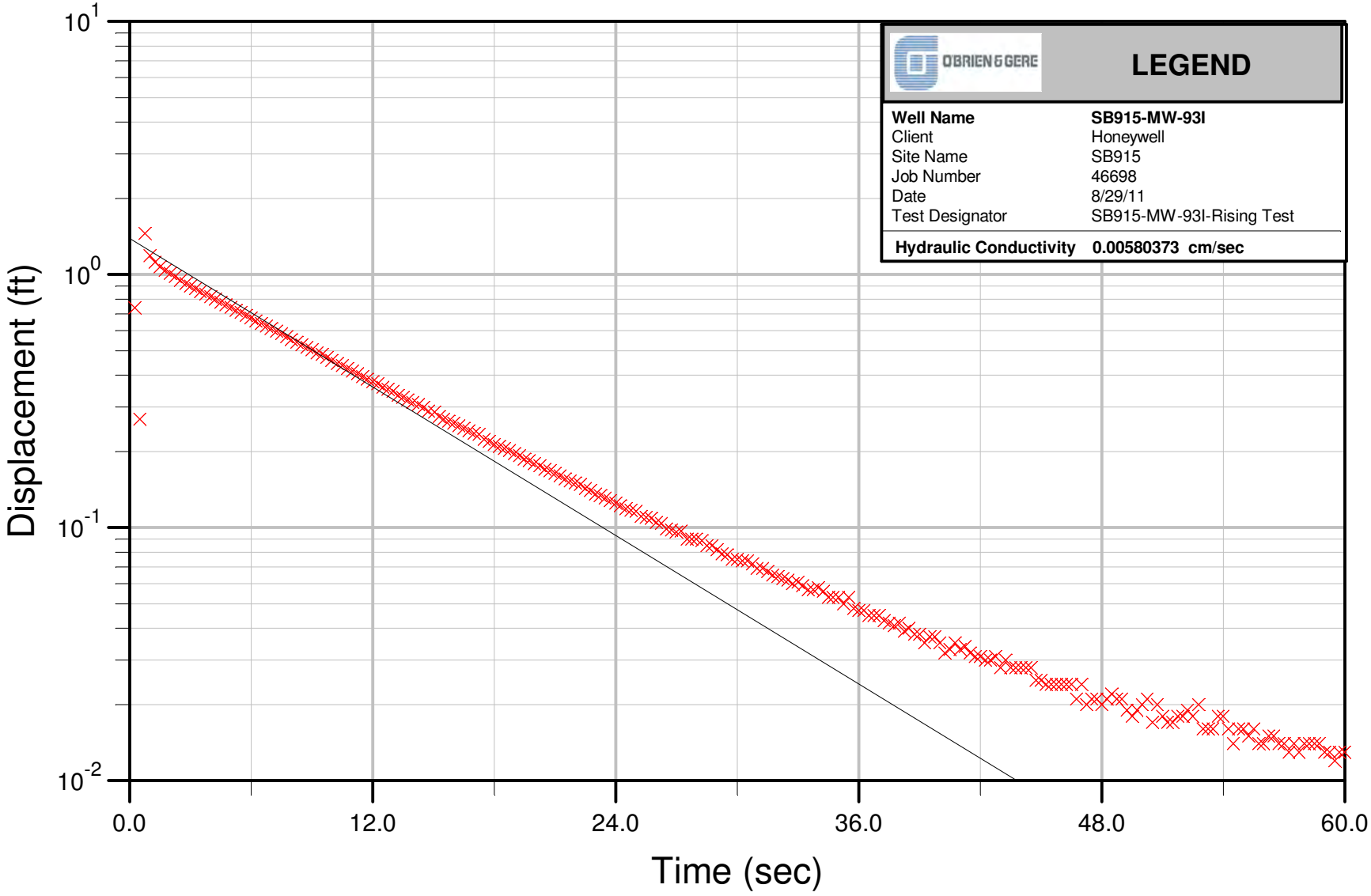
Bouwer & Rice


LEGEND
Well Name SB915-MW-93D
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-93D RisingTest
Hydraulic Conductivity 0.00802639 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
4.0
8.0
12.0
16.0
20.0

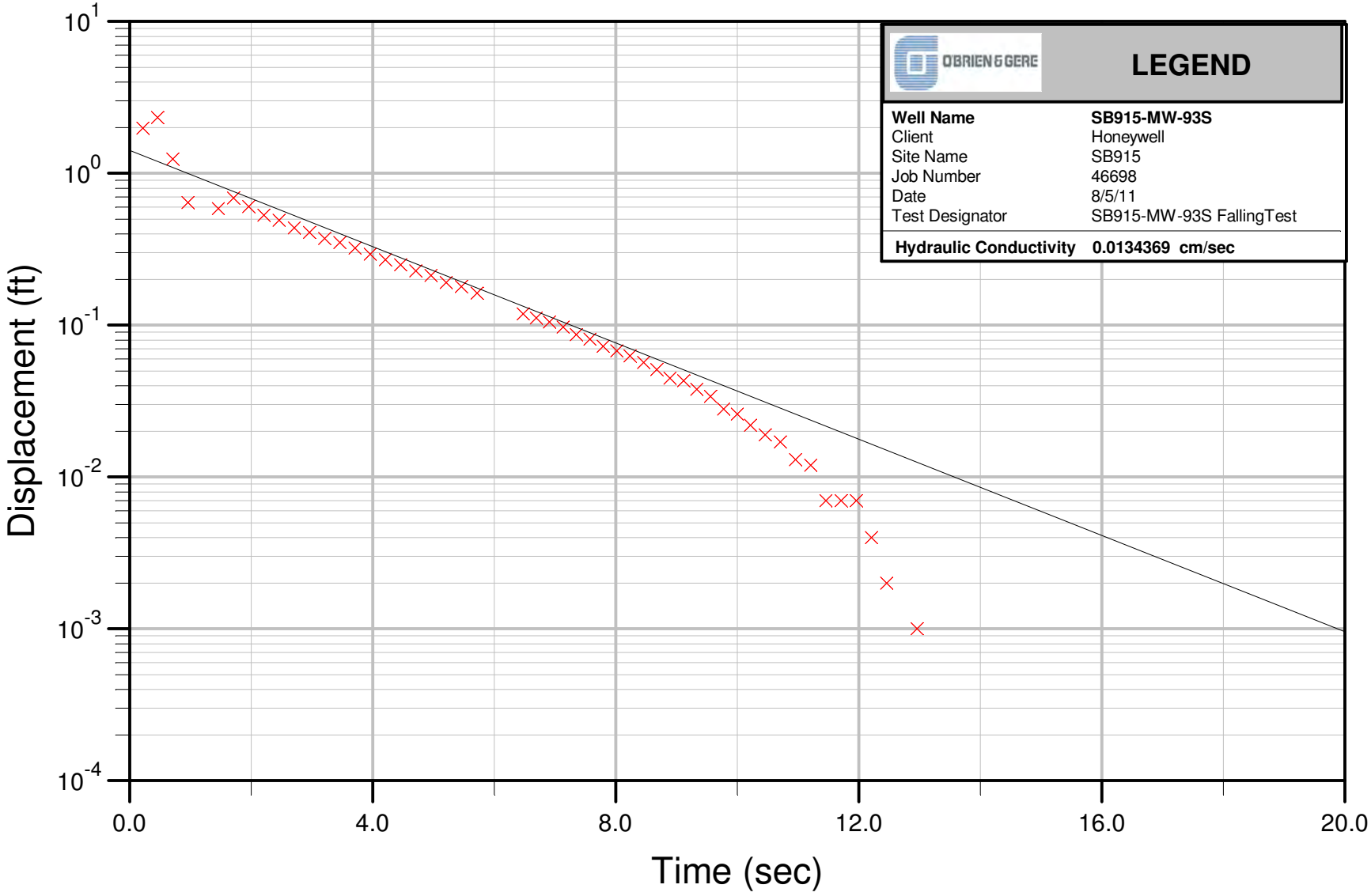
Bouwer & Rice


LEGEND
Well Name SB915-MW-93I
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/29/11
Test Designator SB915-MW-93I-Falling Test
Hydraulic Conductivity 0.00509033 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
12.0
24.0
36.0
48.0
60.0

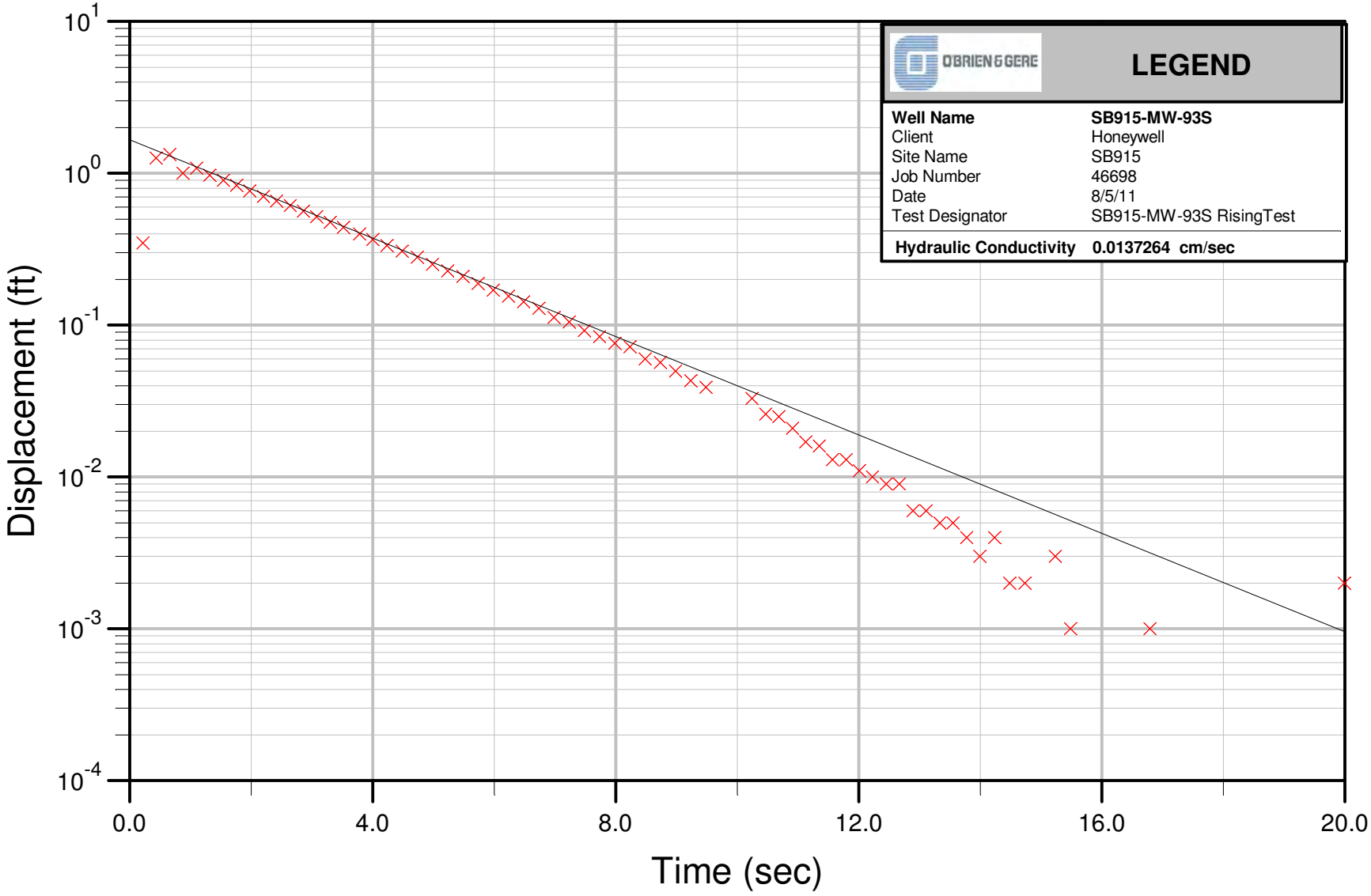
Bouwer & Rice


LEGEND
Well Name SB915-MW-93I
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/29/11
Test Designator SB915-MW-93I-Rising Test
Hydraulic Conductivity 0.00580373 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
12.0
24.0
36.0
48.0
60.0

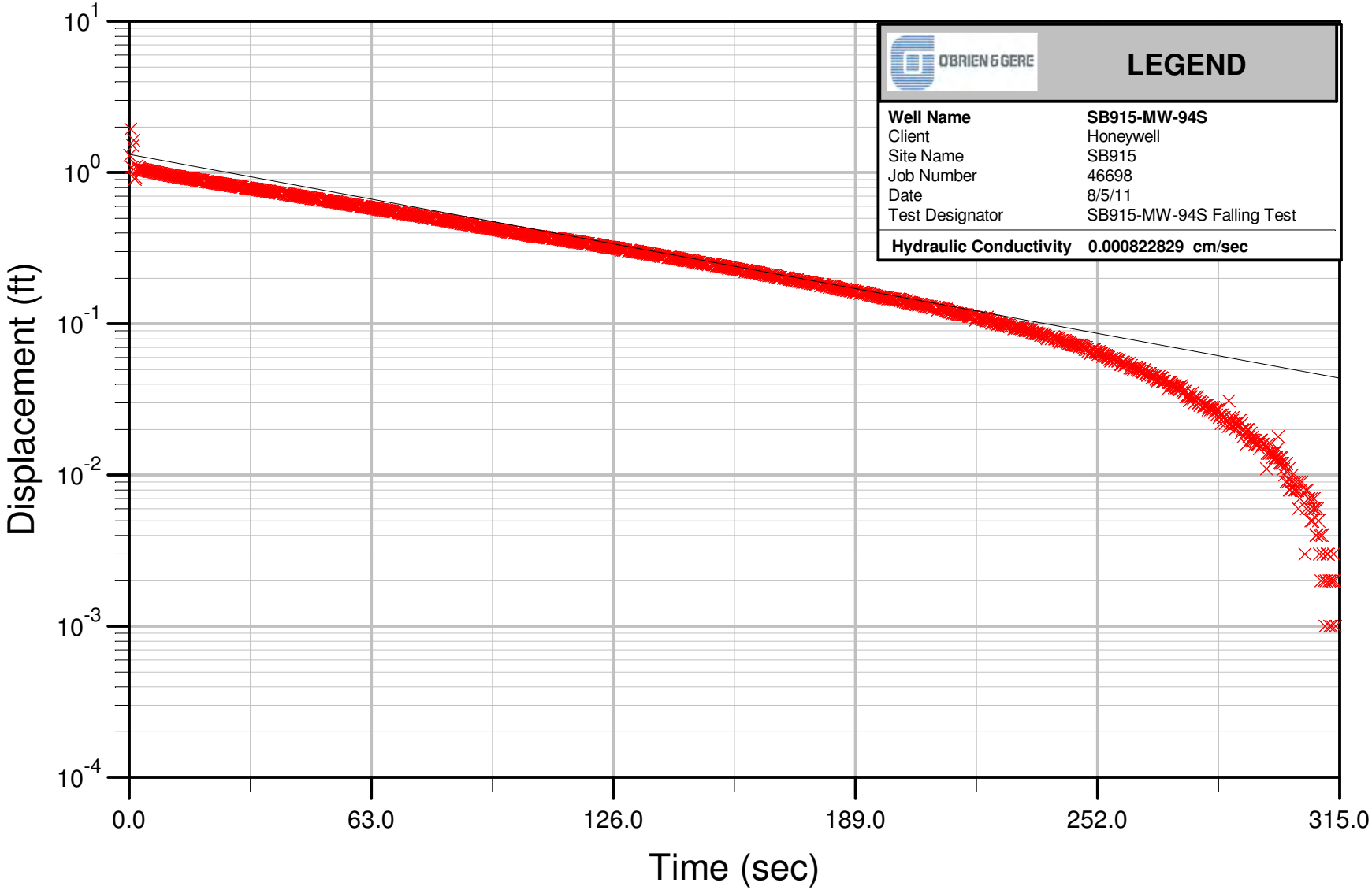
Bouwer & Rice


LEGEND
Well Name SB915-MW-93S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-93S FallingTest
Hydraulic Conductivity 0.0134369 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
4.0
8.0
12.0
16.0
20.0

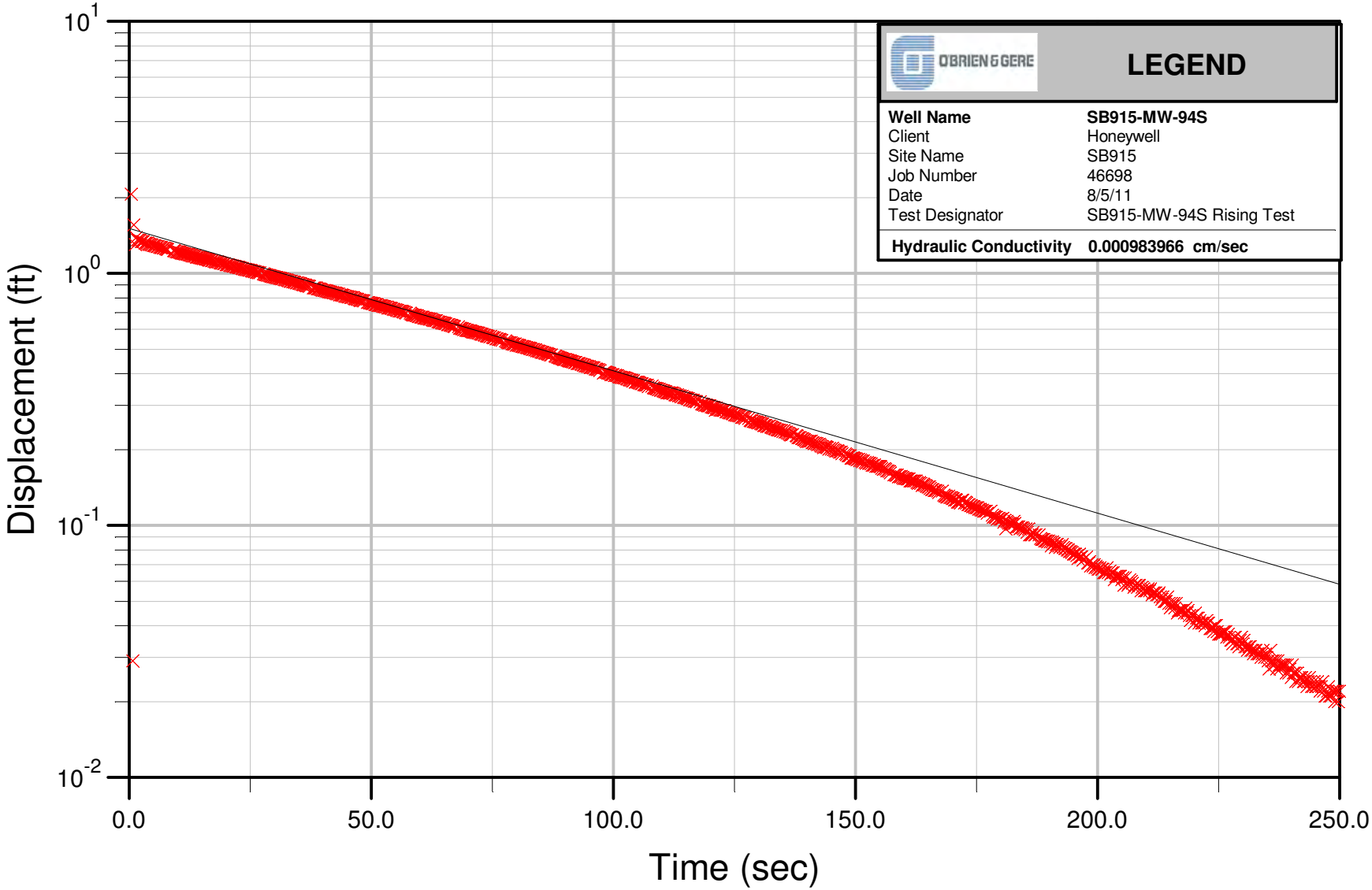
Bouwer & Rice


LEGEND
Well Name SB915-MW-93S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-93S RisingTest
Hydraulic Conductivity 0.0137264 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
4.0
8.0
12.0
16.0
20.0

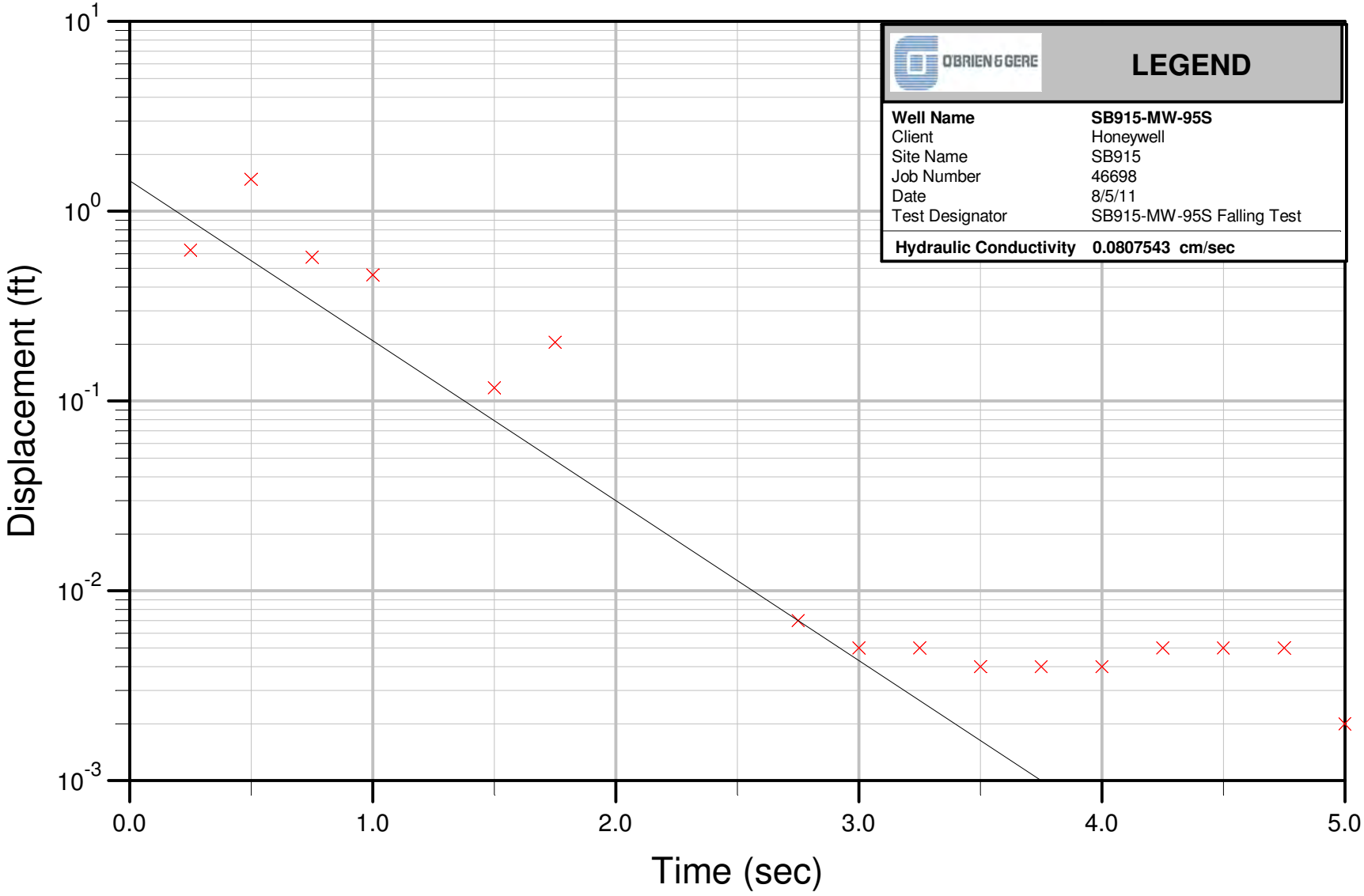
Bouwer & Rice


LEGEND
Well Name SB915-MW-94S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-94S Falling Test
Hydraulic Conductivity 0.000822829 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
63.0
126.0
189.0
252.0
315.0

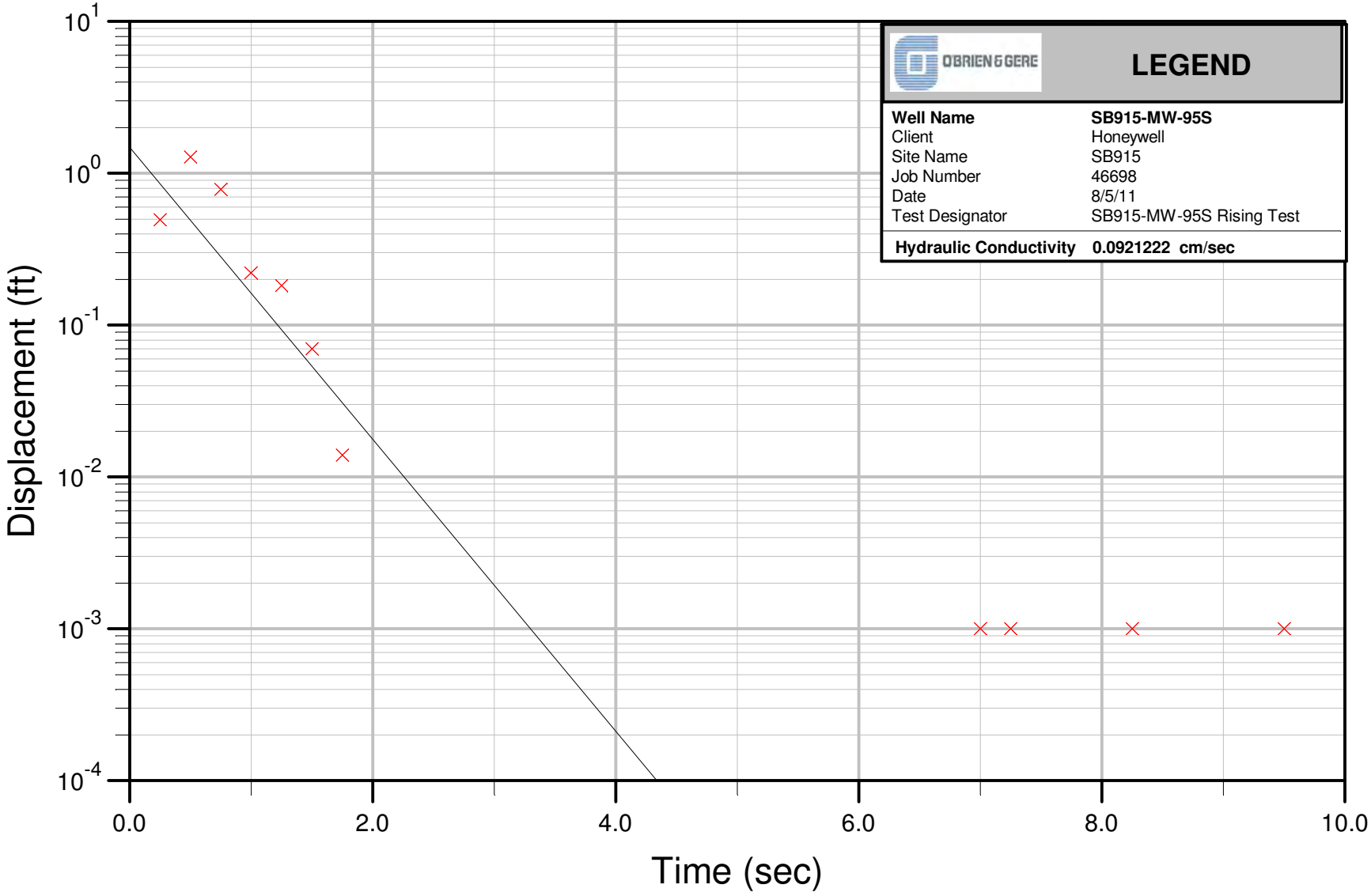
Bouwer & Rice


LEGEND
O'BRIEN & GERE
Well Name SB915-MW-94S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-94S Rising Test
Hydraulic Conductivity 0.000983966 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
50.0
100.0
150.0
200.0
250.0

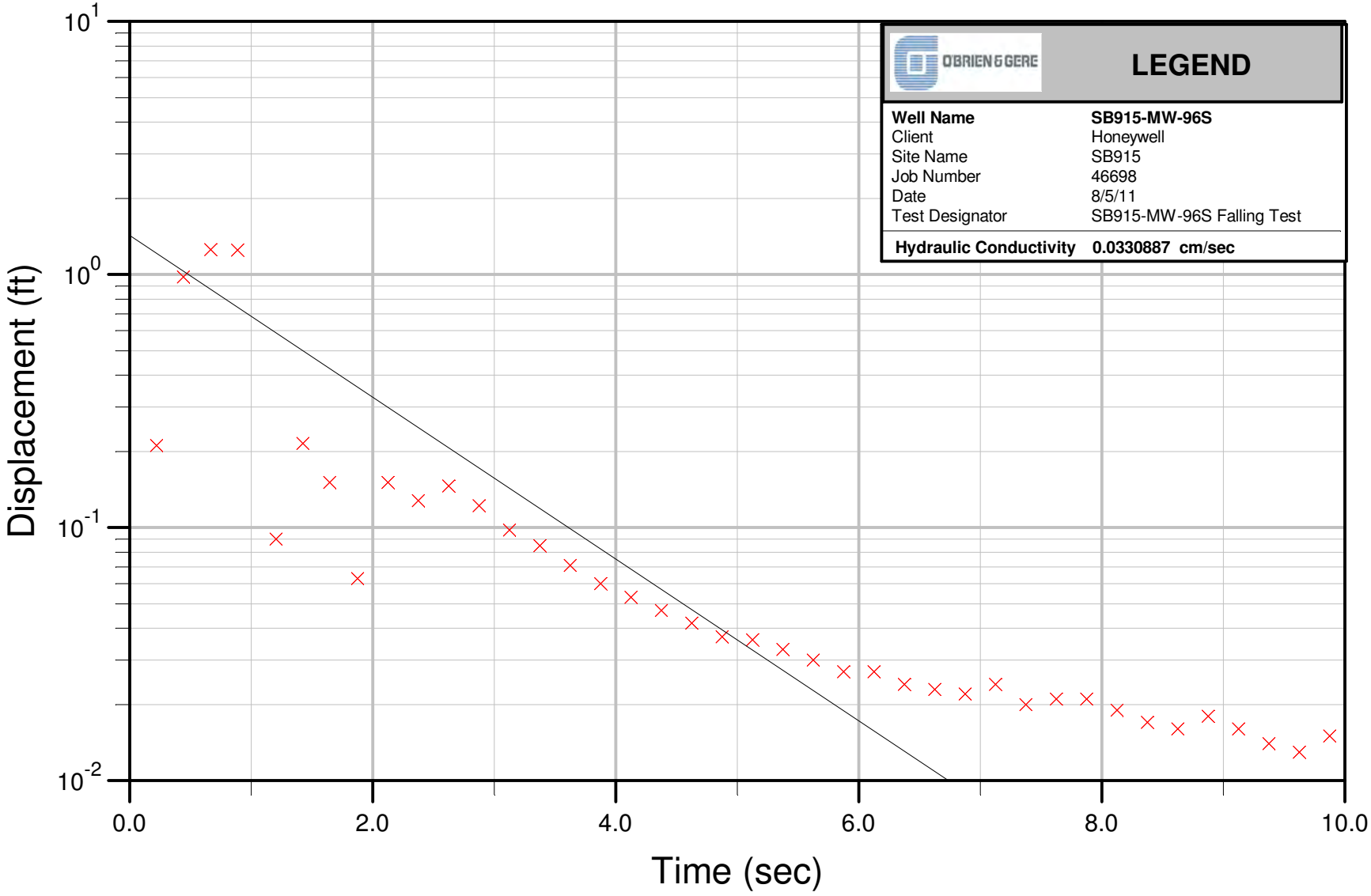
Bouwer & Rice


LEGEND
Well Name SB915-MW-95S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-95S Falling Test
Hydraulic Conductivity 0.0807543 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
1.0
2.0
3.0
4.0
5.0

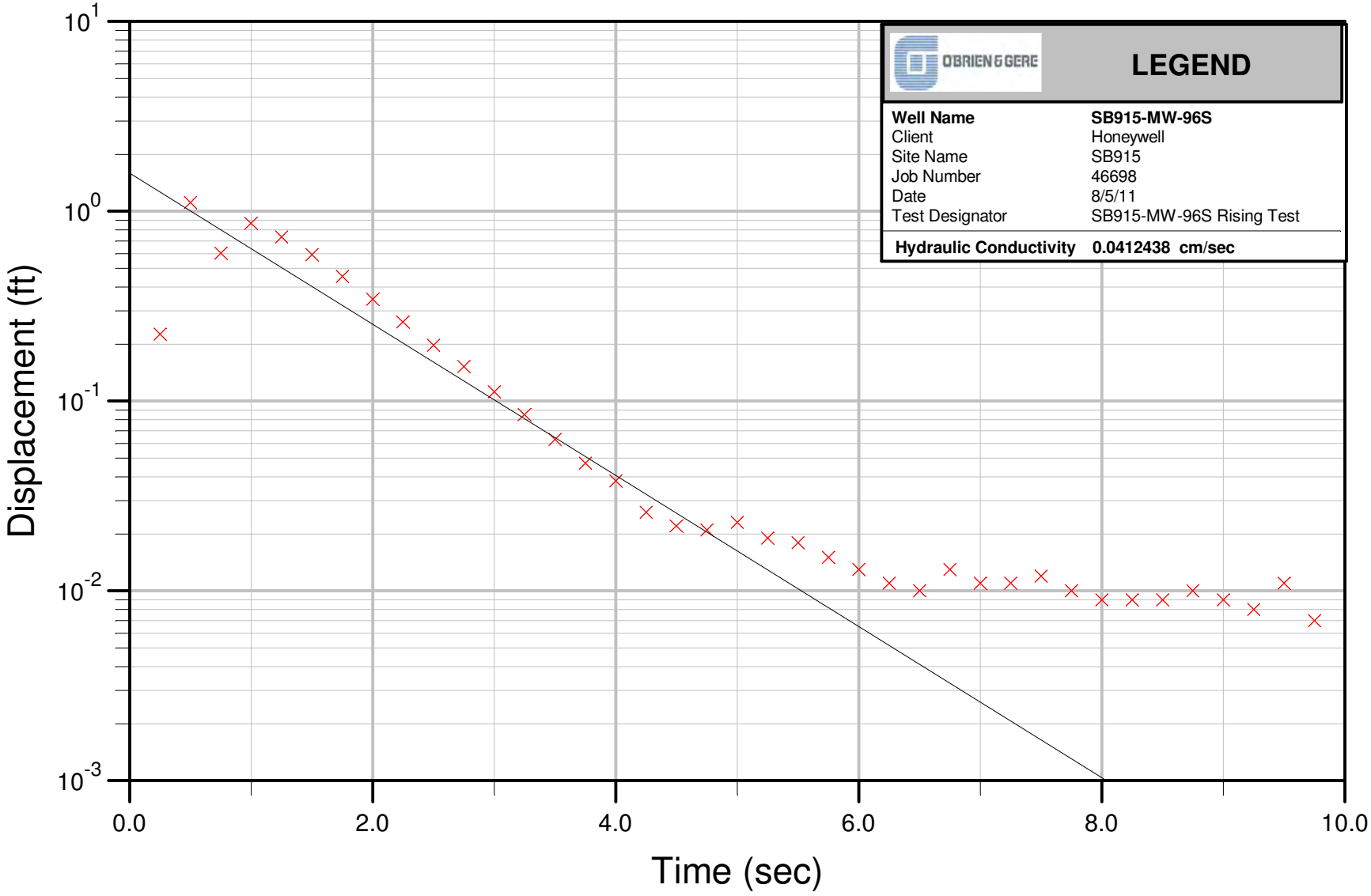
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0.0
2.0
4.0
6.0
8.0
10.0
Time (sec)
O'BRIEN & GERE
LEGEND
Well Name SB915-MW-95S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-95S Rising Test
Hydraulic Conductivity 0.0921222 cm/sec

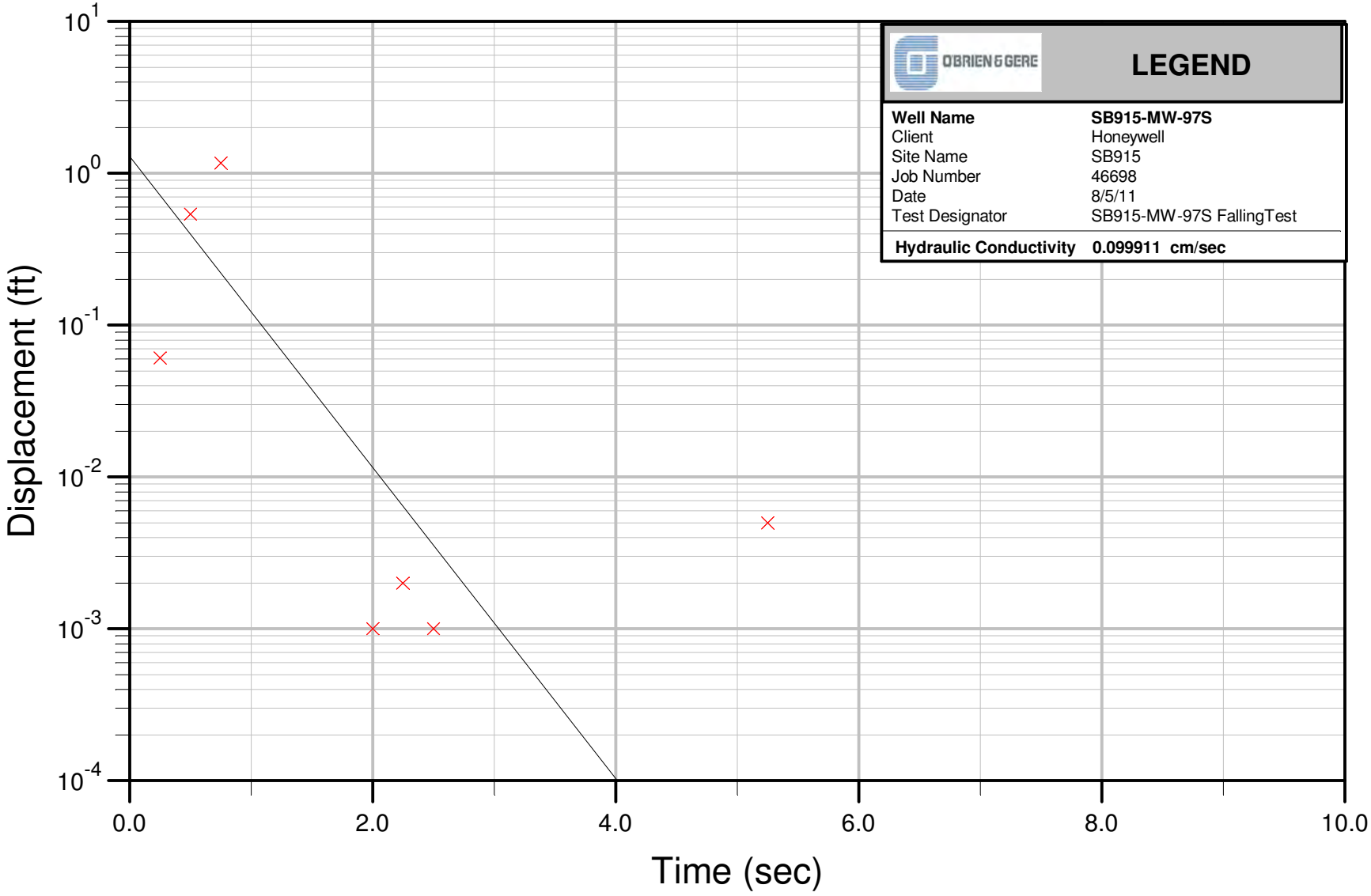
Bouwer & Rice


LEGEND
O'BRIEN & GERE
Well Name SB915-MW-96S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-96S Falling Test
Hydraulic Conductivity 0.0330887 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
2.0
4.0
6.0
8.0
10.0

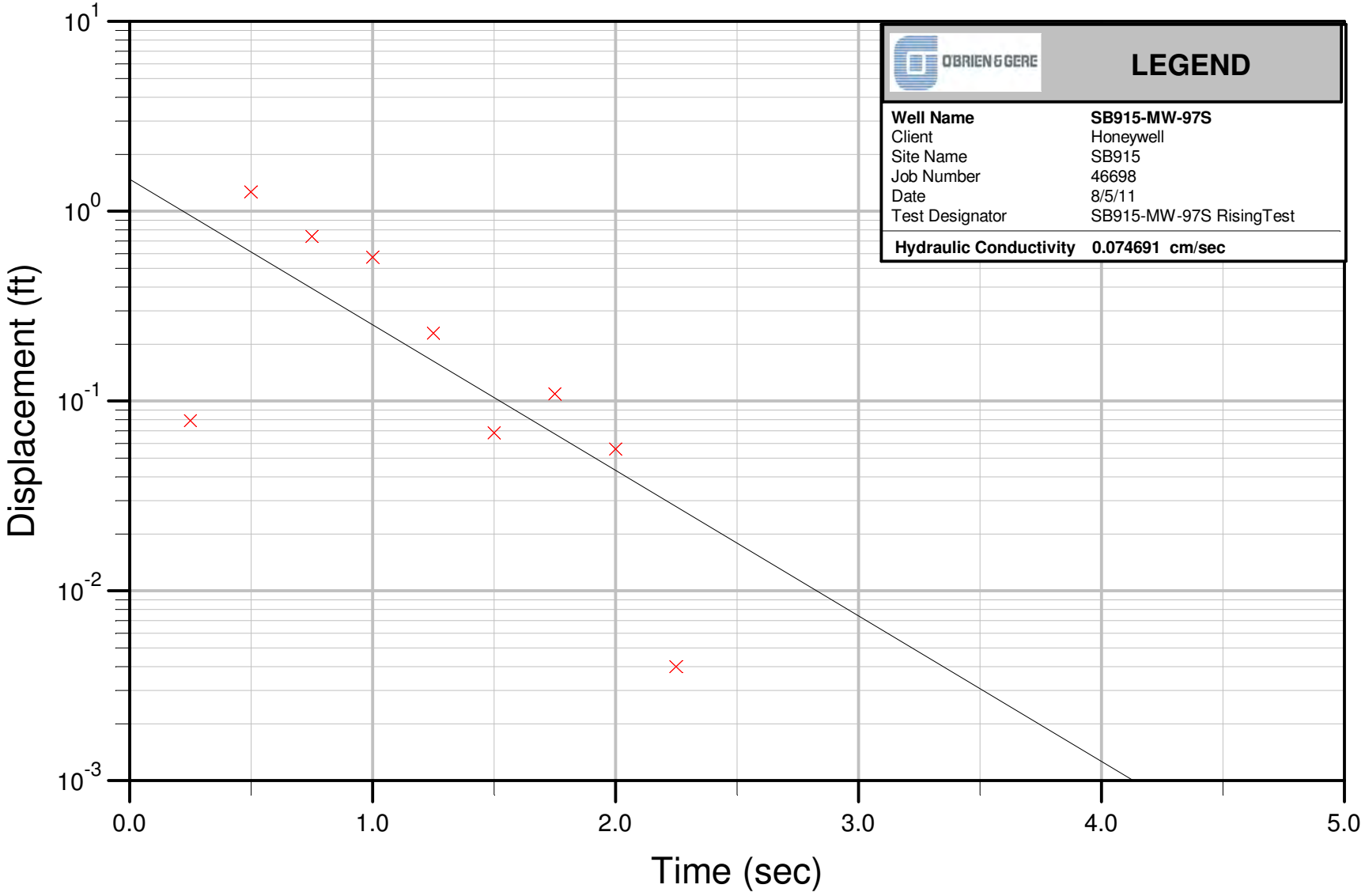
Bouwer & Rice


LEGEND
Well Name SB915-MW-96S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-96S Rising Test
Hydraulic Conductivity 0.0412438 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
2.0
4.0
6.0
8.0
10.0

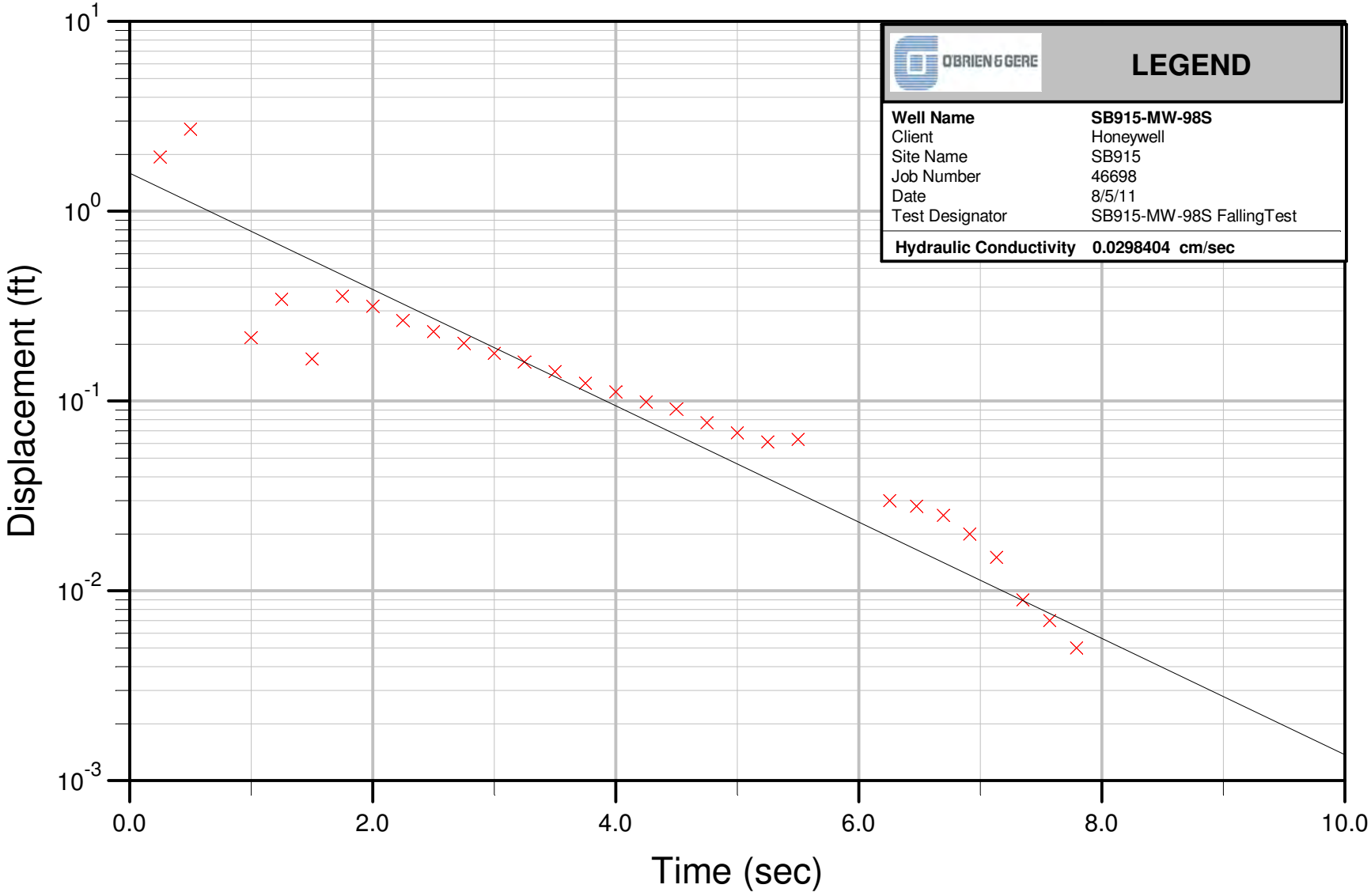
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0.0
2.0
4.0
6.0
8.0
10.0
Time (sec)
O'BRIEN & GERE
LEGEND
Well Name SB915-MW-97S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-97S FallingTest
Hydraulic Conductivity 0.099911 cm/sec

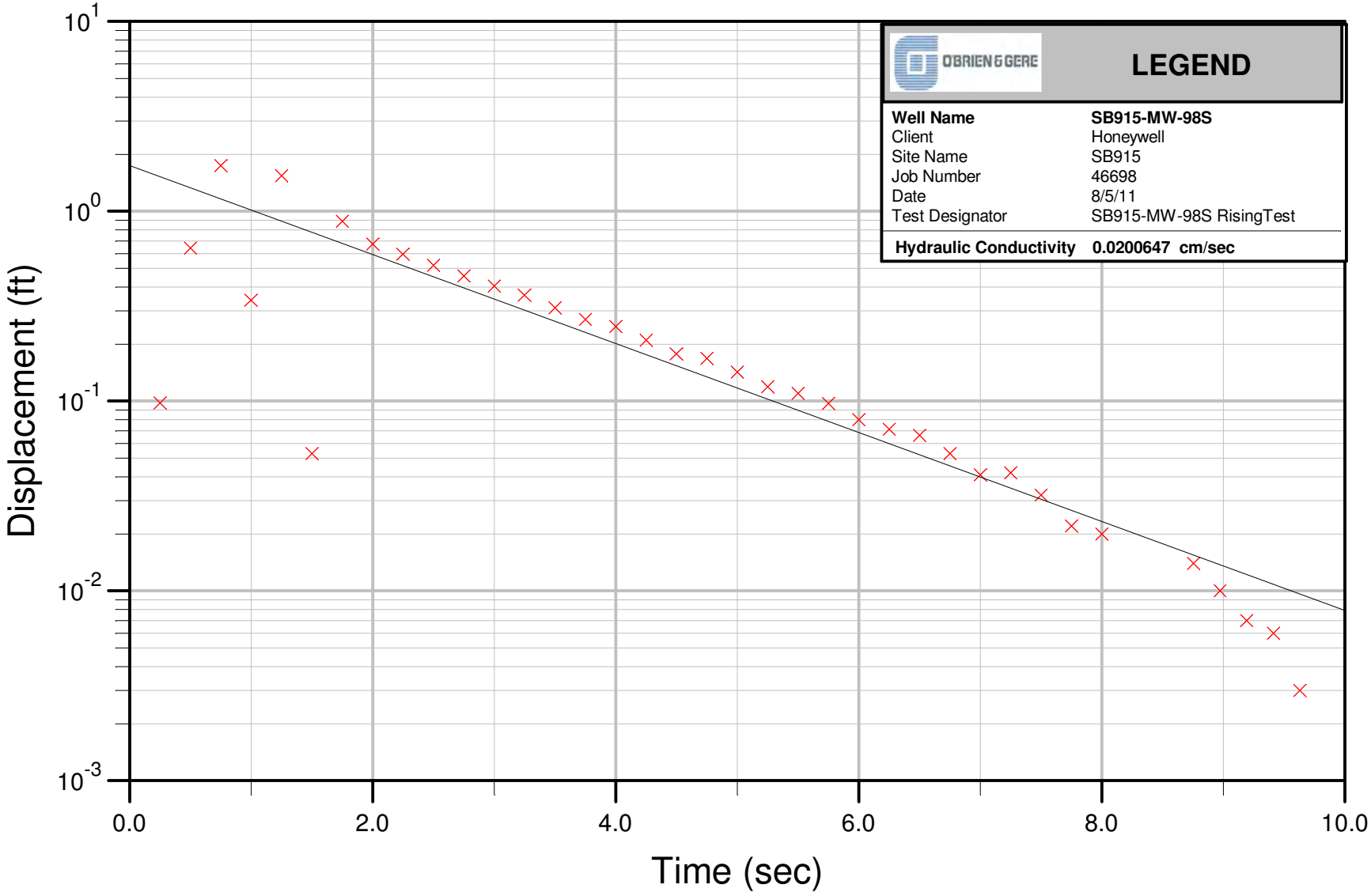
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
1.0
2.0
3.0
4.0
5.0
Time (sec)
O'BRIEN & GERE
LEGEND
Well Name SB915-MW-97S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-97S RisingTest
Hydraulic Conductivity 0.074691 cm/sec

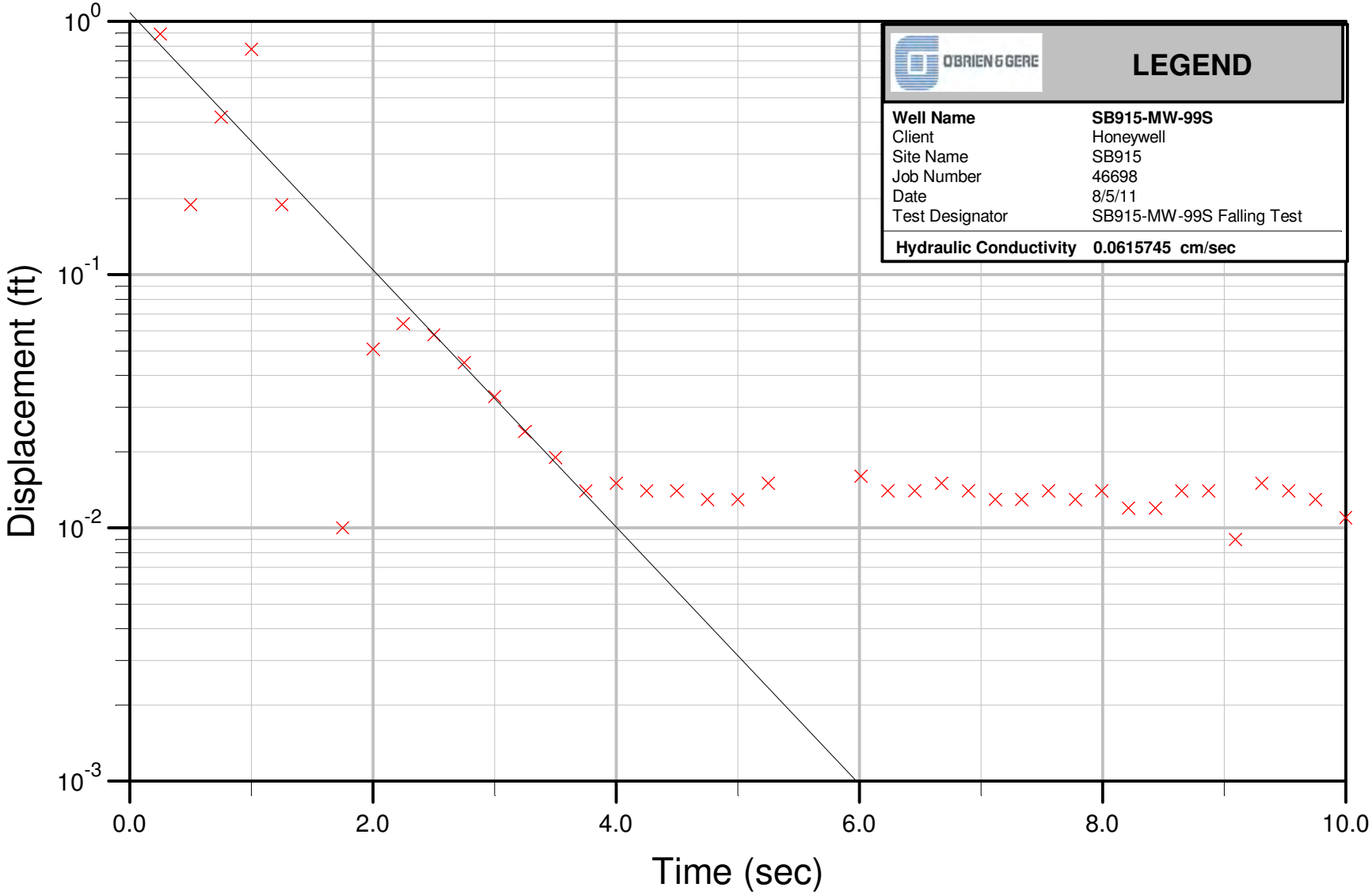
Bouwer & Rice


LEGEND
O'BRIEN & GERE
Well Name SB915-MW-98S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-98S FallingTest
Hydraulic Conductivity 0.0298404 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
2.0
4.0
6.0
8.0
10.0

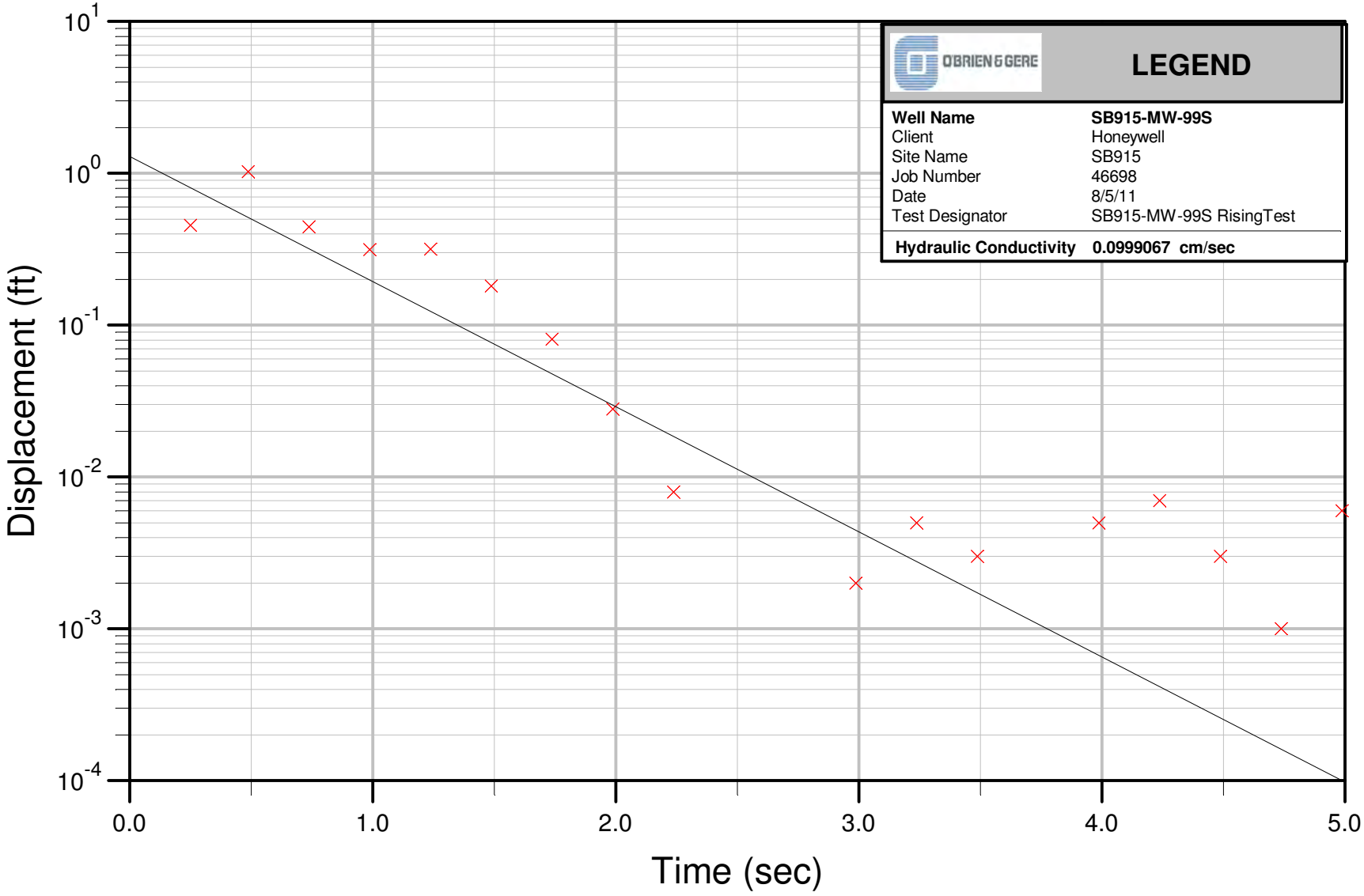
Bouwer & Rice


LEGEND
Well Name SB915-MW-98S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-98S RisingTest
Hydraulic Conductivity 0.0200647 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
2.0
4.0
6.0
8.0
10.0

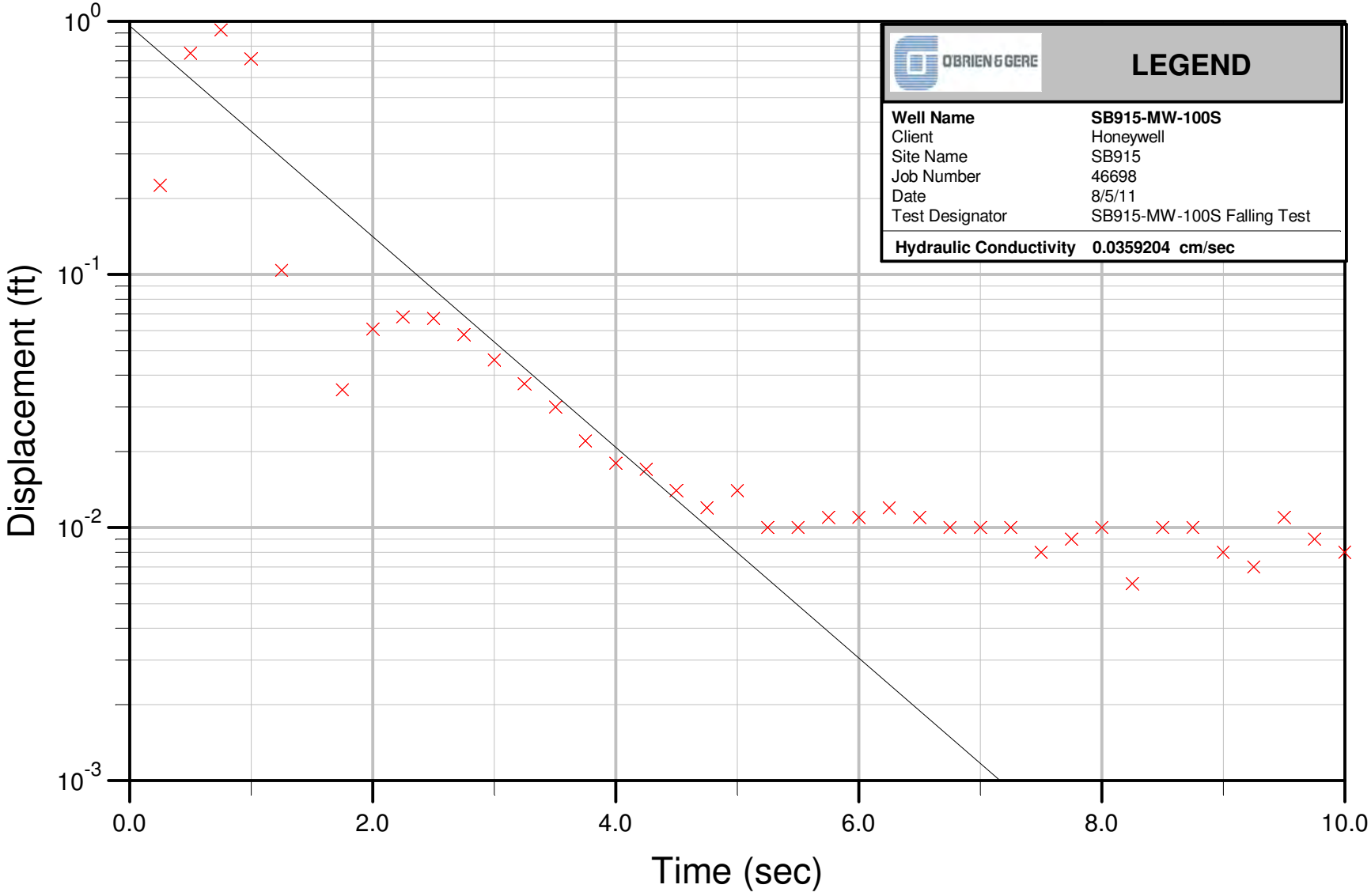
Bouwer & Rice


LEGEND
Well Name SB915-MW-99S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-99S Falling Test
Hydraulic Conductivity 0.0615745 cm/sec
Displacement (ft)
Time (sec)
10^0
10^-1
10^-2
10^-3
0.0
2.0
4.0
6.0
8.0
10.0

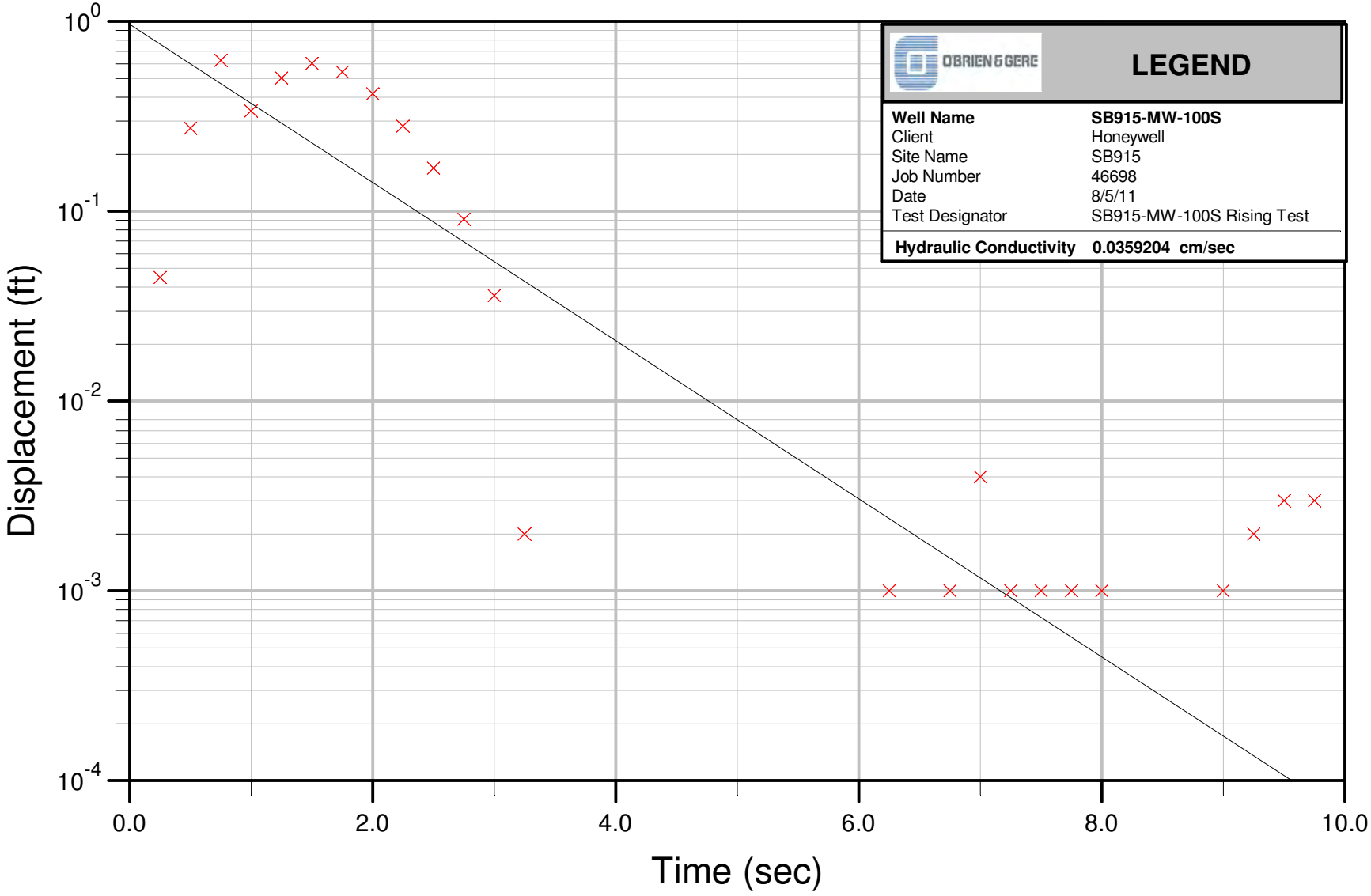
Bouwer & Rice


LEGEND
Well Name SB915-MW-99S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-99S RisingTest
Hydraulic Conductivity 0.0999067 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
1.0
2.0
3.0
4.0
5.0

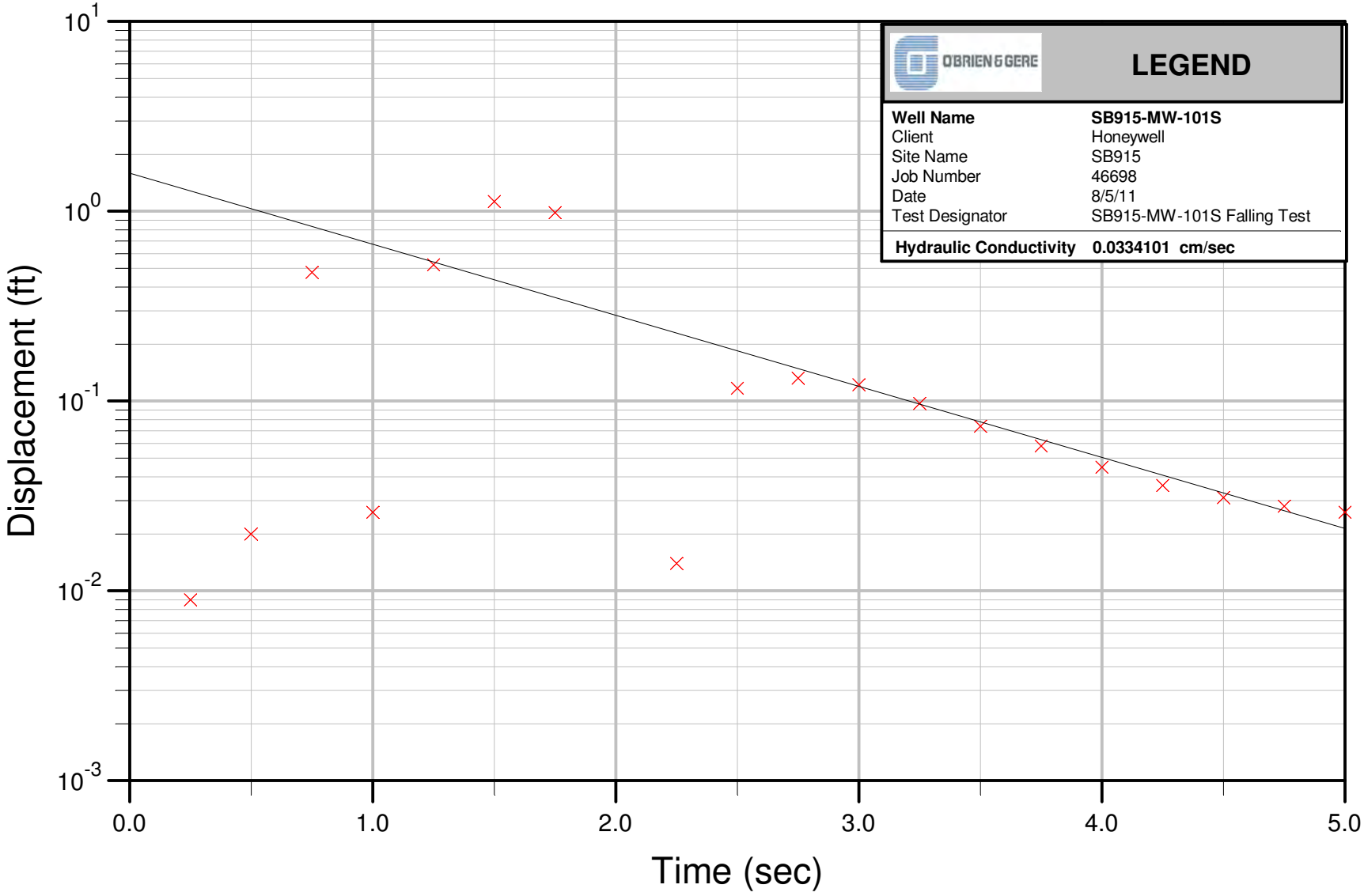
Bouwer & Rice


LEGEND
Well Name SB915-MW-100S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-100S Falling Test
Hydraulic Conductivity 0.0359204 cm/sec
Displacement (ft)
Time (sec)
10^0
10^-1
10^-2
10^-3
0.0
2.0
4.0
6.0
8.0
10.0

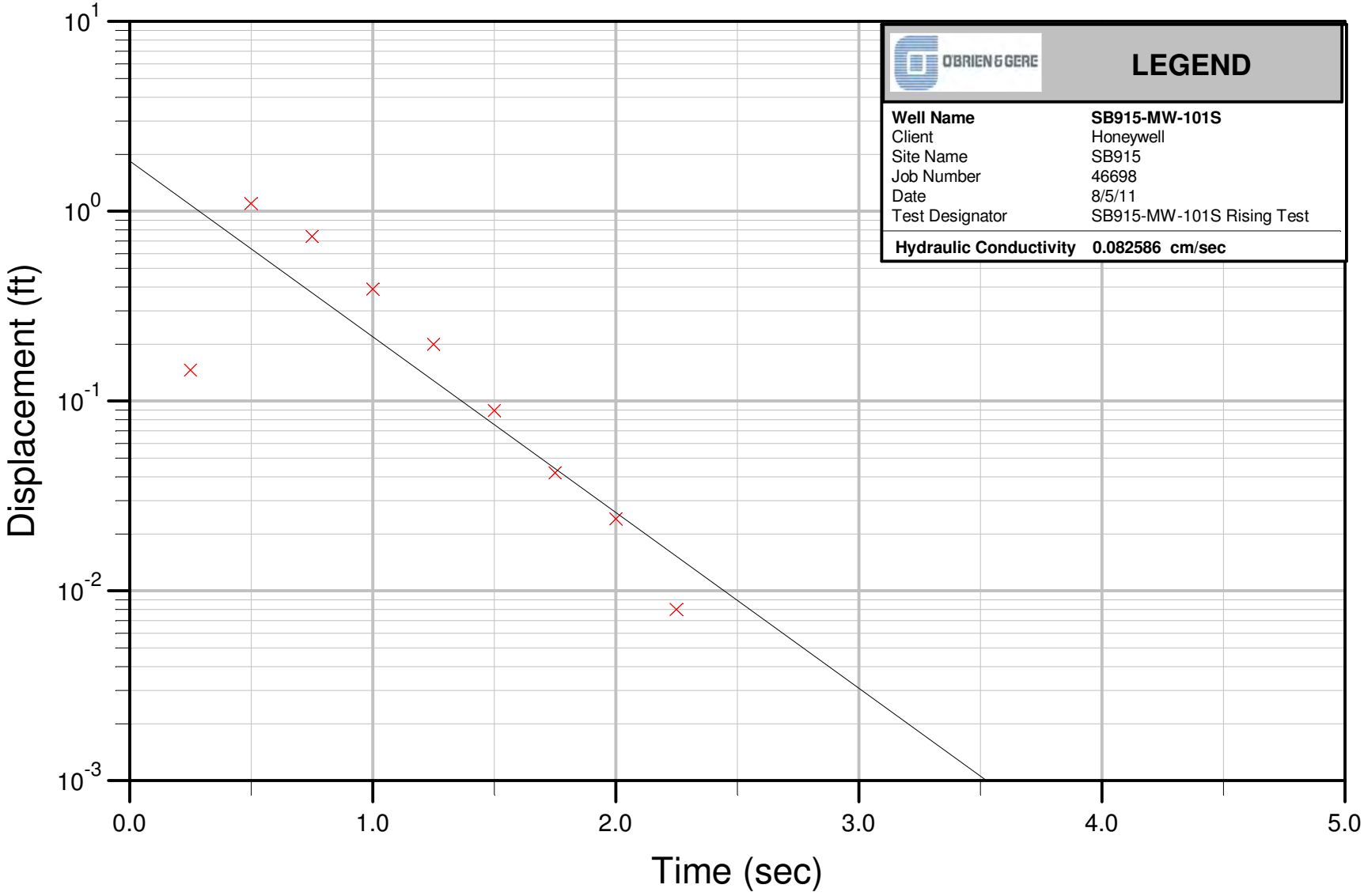
Bouwer & Rice


Displacement (ft)
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0.0
2.0
4.0
6.0
8.0
10.0
Time (sec)
O'BRIEN & GERE
LEGEND
Well Name SB915-MW-100S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-100S Rising Test
Hydraulic Conductivity 0.0359204 cm/sec

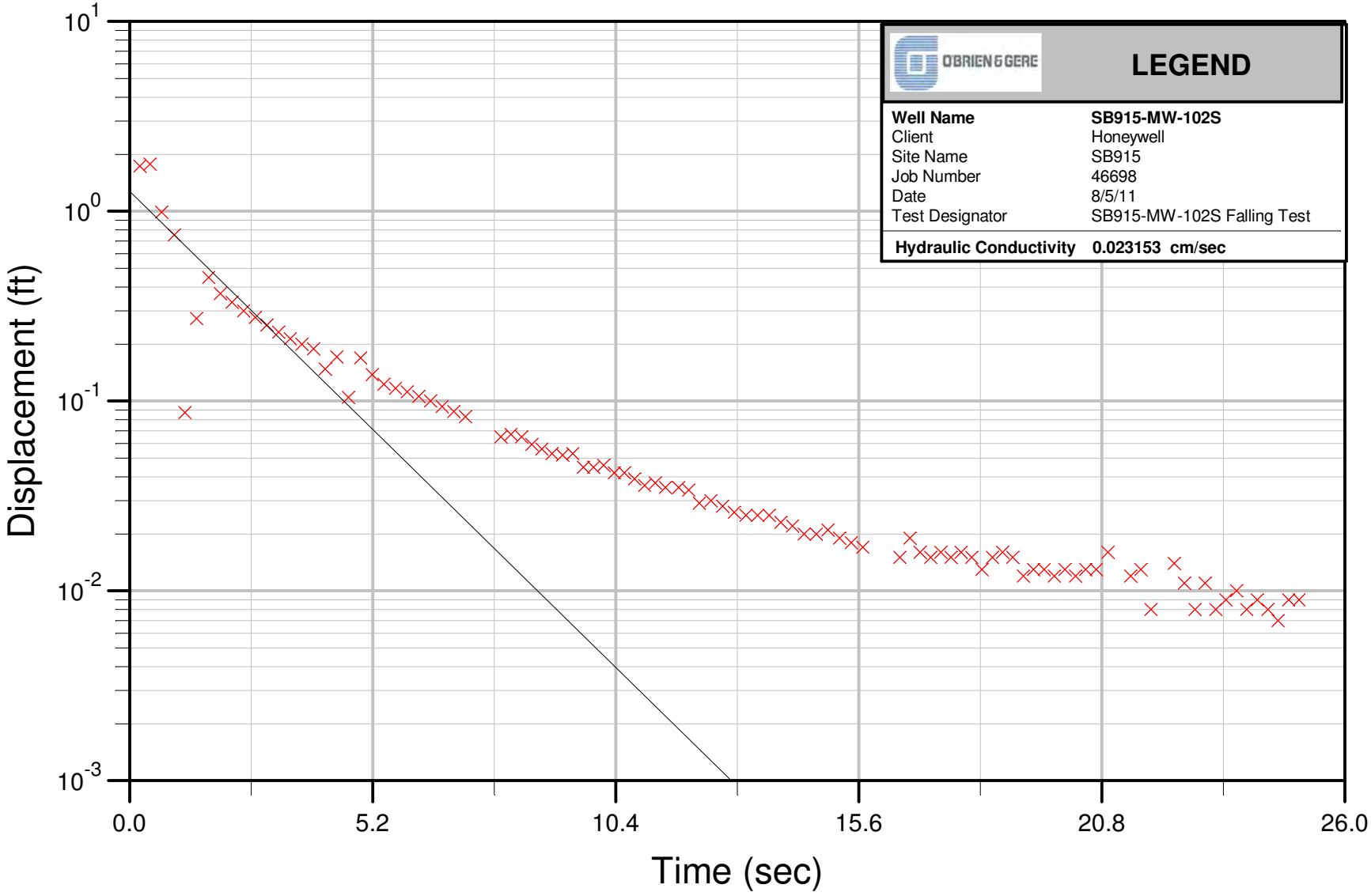
Bouwer & Rice


LEGEND
Well Name SB915-MW-101S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-101S Falling Test
Hydraulic Conductivity 0.0334101 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
1.0
2.0
3.0
4.0
5.0

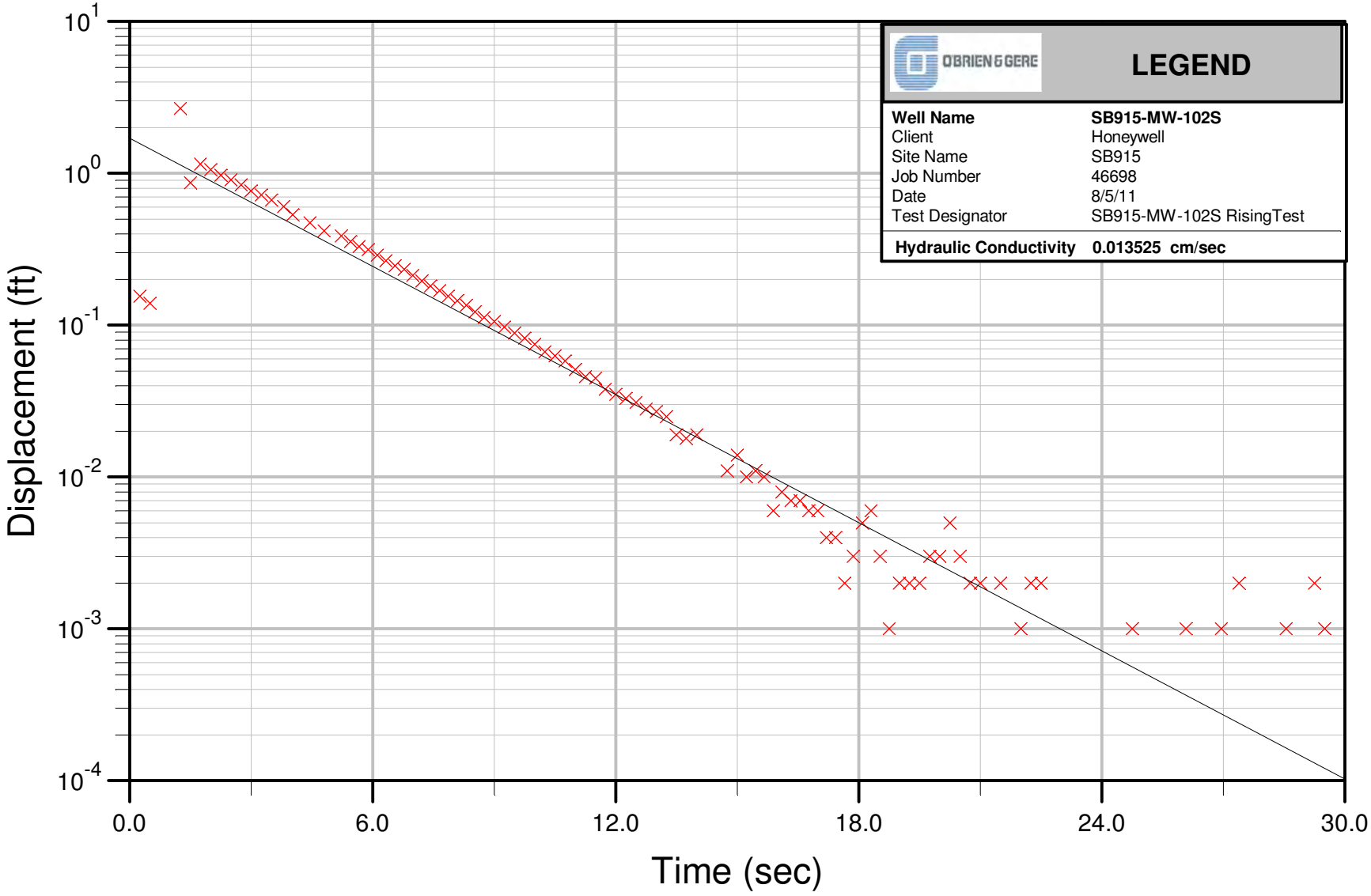
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
1.0
2.0
3.0
4.0
5.0
Time (sec)
O'BRIEN & GERE
LEGEND
Well Name SB915-MW-101S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-101S Rising Test
Hydraulic Conductivity 0.082586 cm/sec

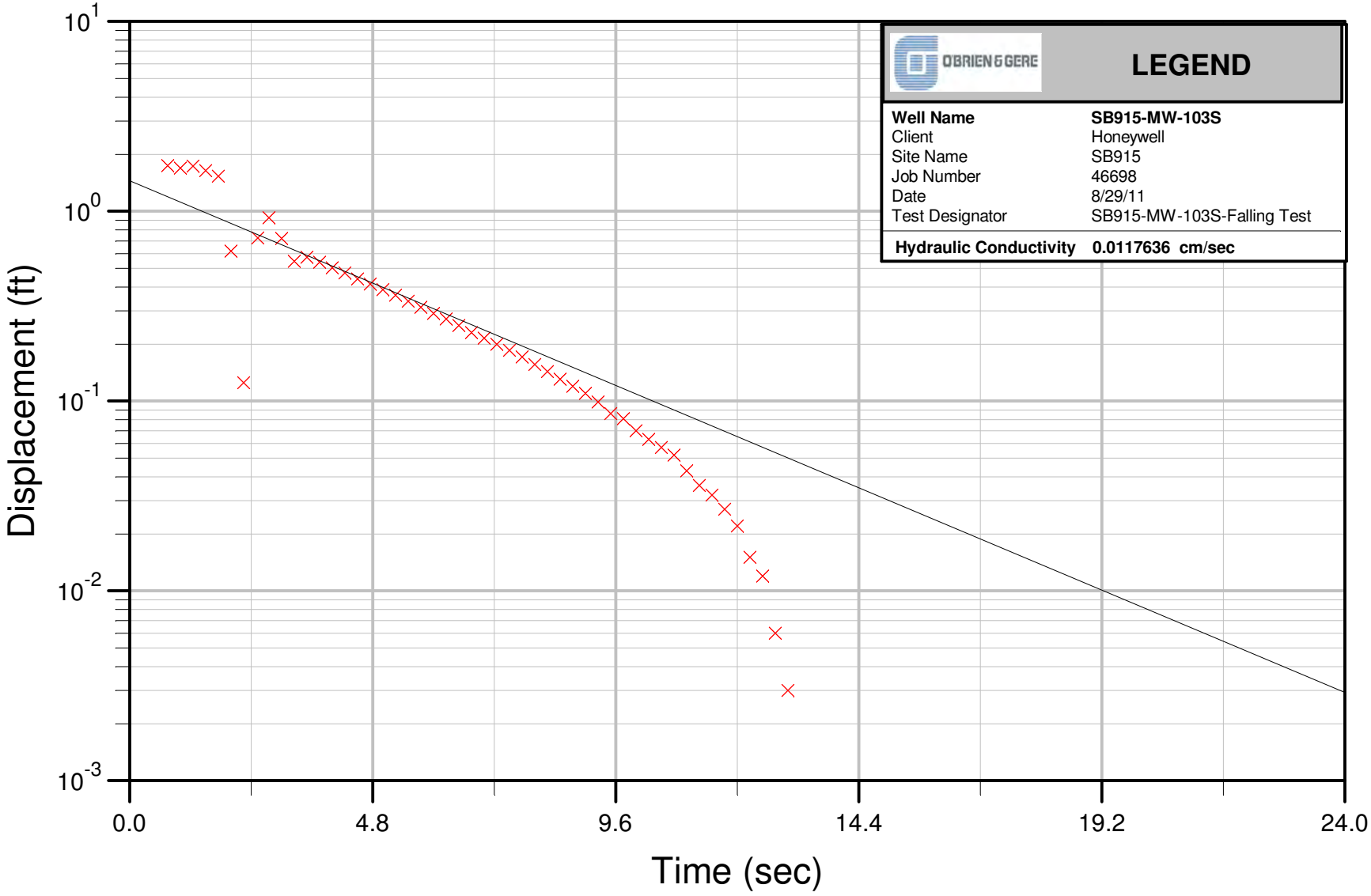
Bouwer & Rice


LEGEND
O'BRIEN & GERE
Well Name SB915-MW-102S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-102S Falling Test
Hydraulic Conductivity 0.023153 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
5.2
10.4
15.6
20.8
26.0

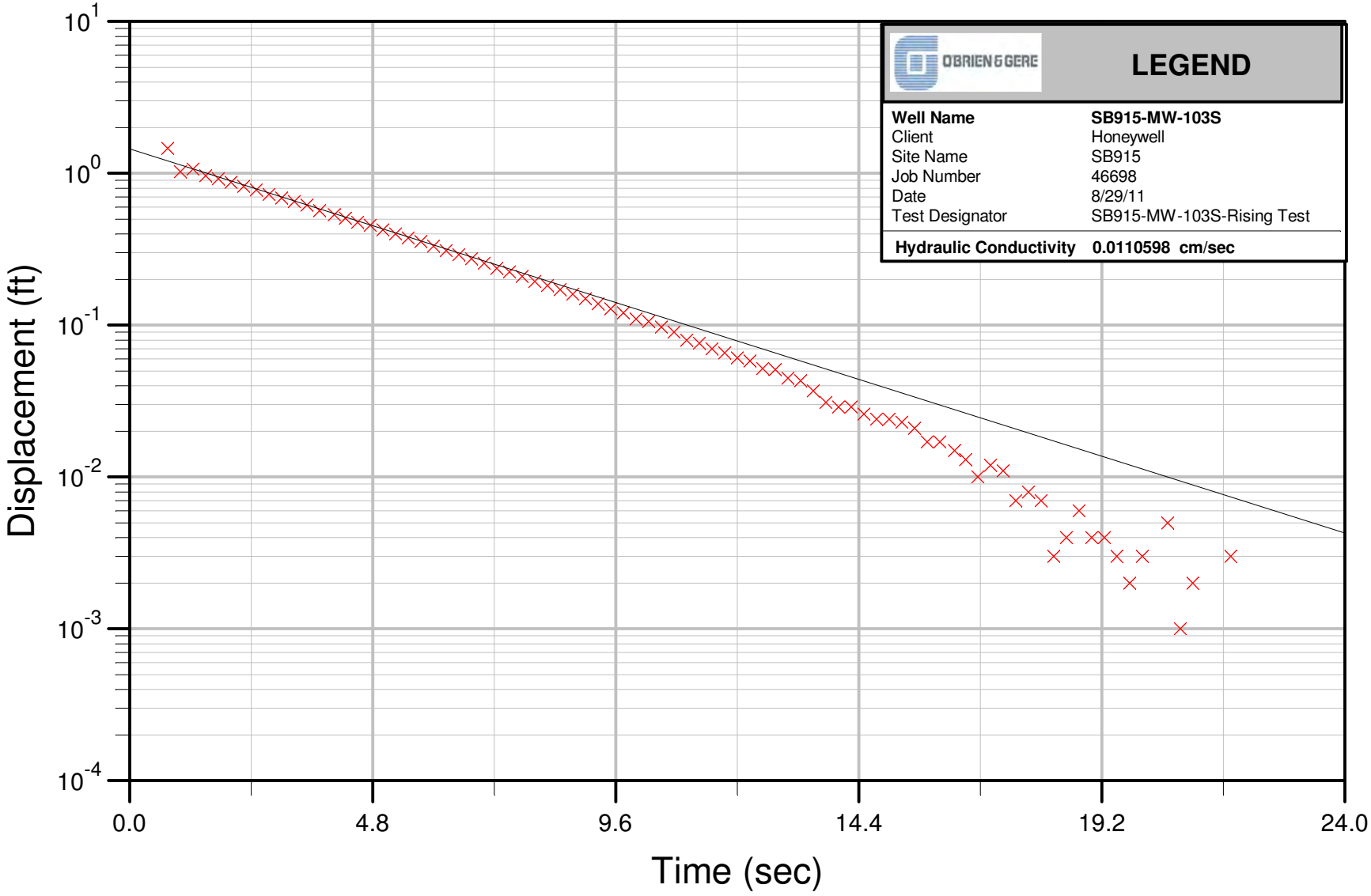
Bouwer & Rice


LEGEND
Well Name SB915-MW-102S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/5/11
Test Designator SB915-MW-102S RisingTest
Hydraulic Conductivity 0.013525 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
6.0
12.0
18.0
24.0
30.0

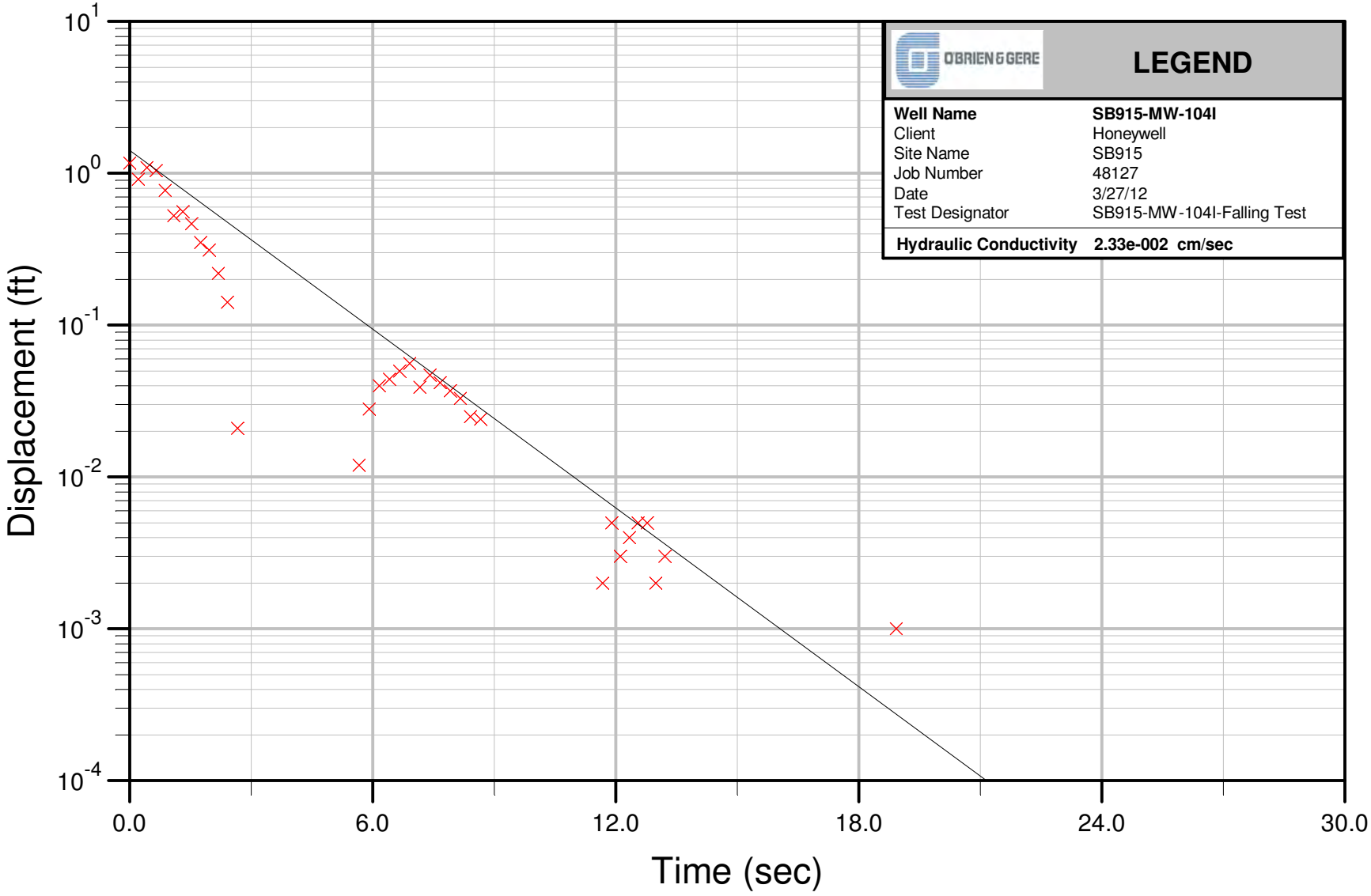
Bouwer & Rice


LEGEND
Well Name SB915-MW-103S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/29/11
Test Designator SB915-MW-103S-Falling Test
Hydraulic Conductivity 0.0117636 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
4.8
9.6
14.4
19.2
24.0

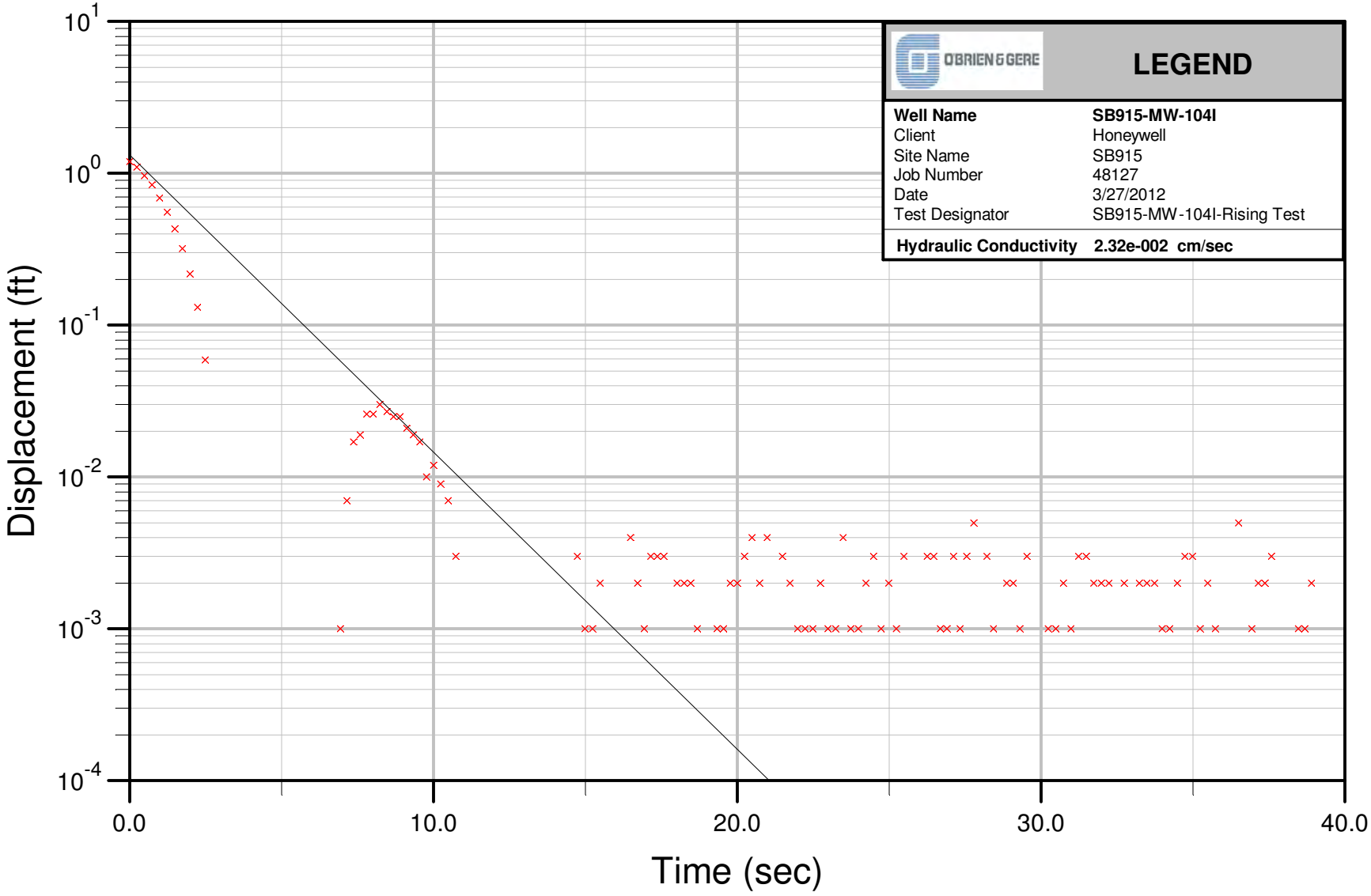
Bouwer & Rice


LEGEND
Well Name SB915-MW-103S
Client Honeywell
Site Name SB915
Job Number 46698
Date 8/29/11
Test Designator SB915-MW-103S-Rising Test
Hydraulic Conductivity 0.0110598 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
4.8
9.6
14.4
19.2
24.0

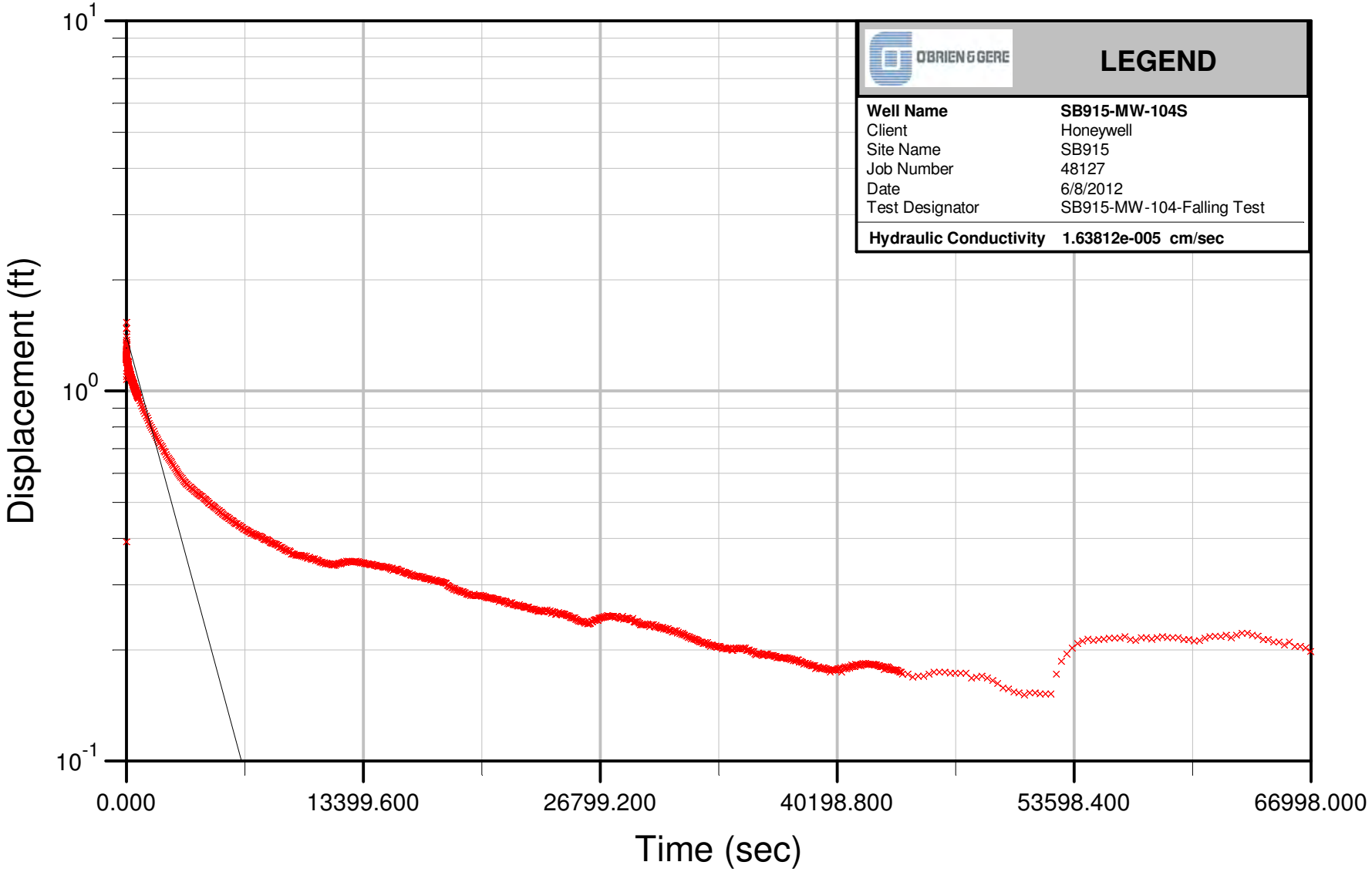
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0.0
6.0
12.0
18.0
24.0
30.0
Time (sec)
O'BRIEN & GERE
LEGEND
Well Name SB915-MW-104I
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/27/12
Test Designator SB915-MW-104I-Falling Test
Hydraulic Conductivity 2.33e-002 cm/sec

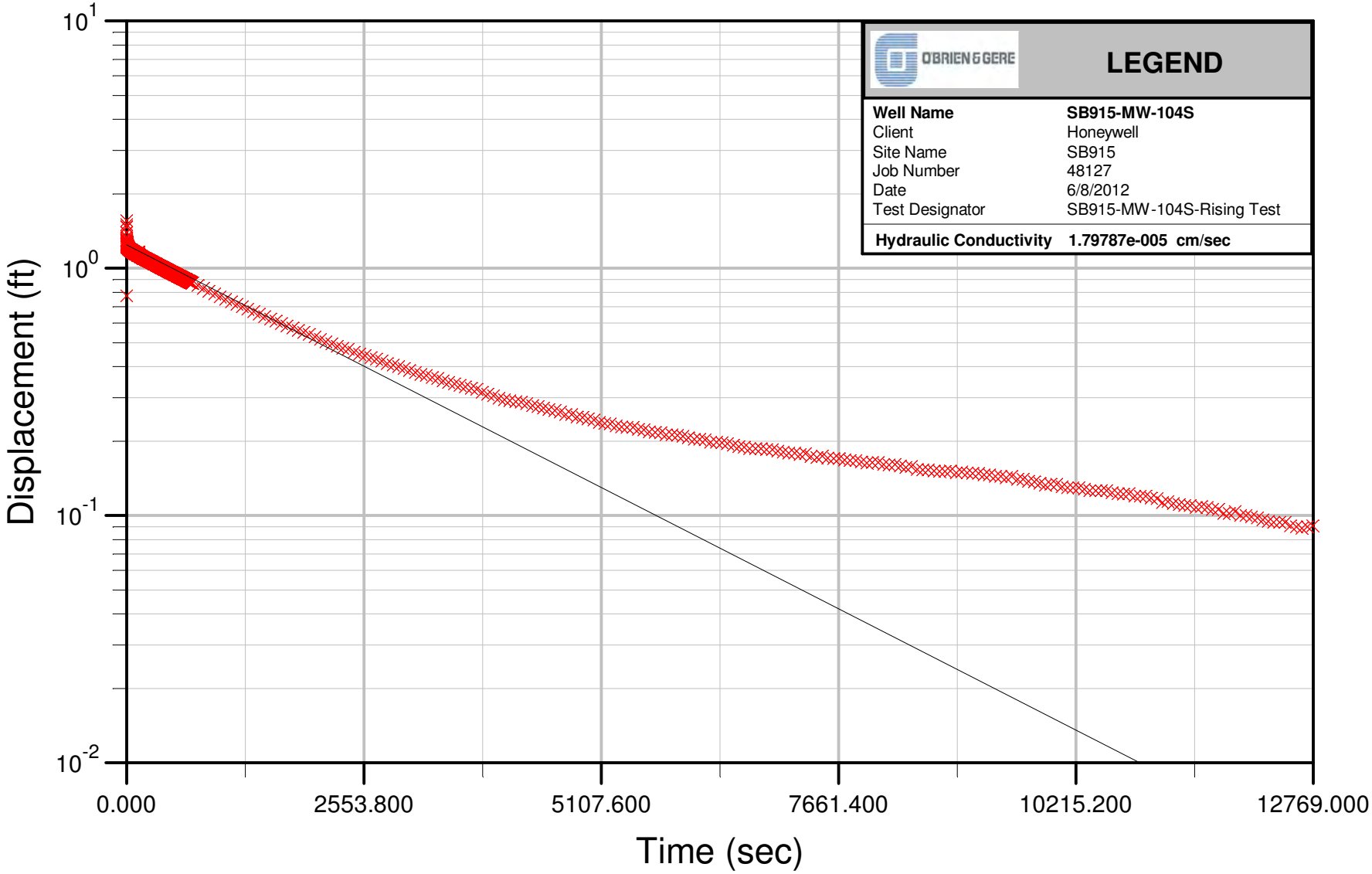
Bouwer & Rice


LEGEND
Well Name SB915-MW-104I
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/27/2012
Test Designator SB915-MW-104I-Rising Test
Hydraulic Conductivity 2.32e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
10.0
20.0
30.0
40.0

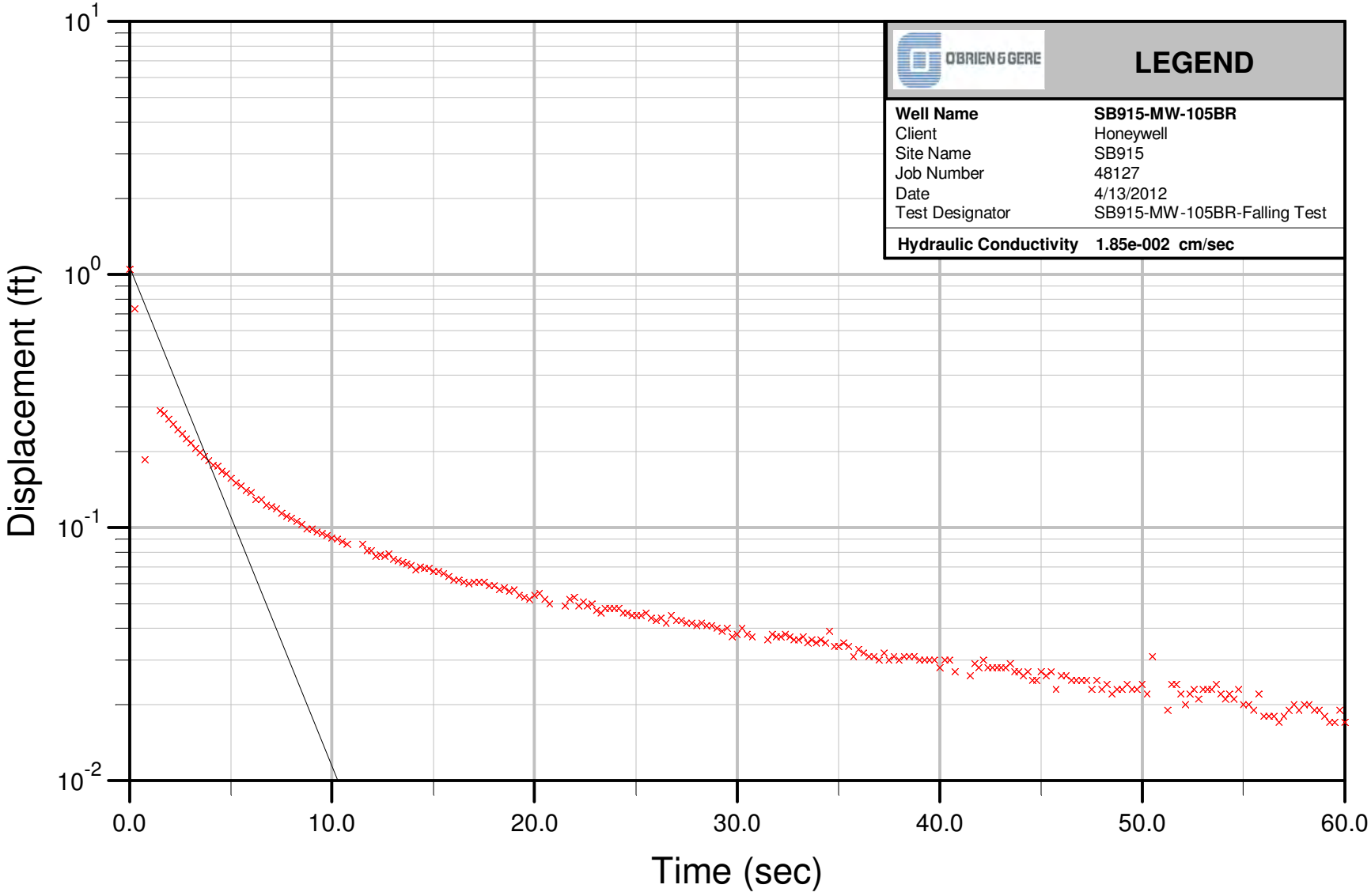
Bouwer & Rice


LEGEND
Well Name SB915-MW-104S
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/8/2012
Test Designator SB915-MW-104-Falling Test
Hydraulic Conductivity 1.63812e-005 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.000
13399.600
26799.200
40198.800
53598.400
66998.000
Time (sec)

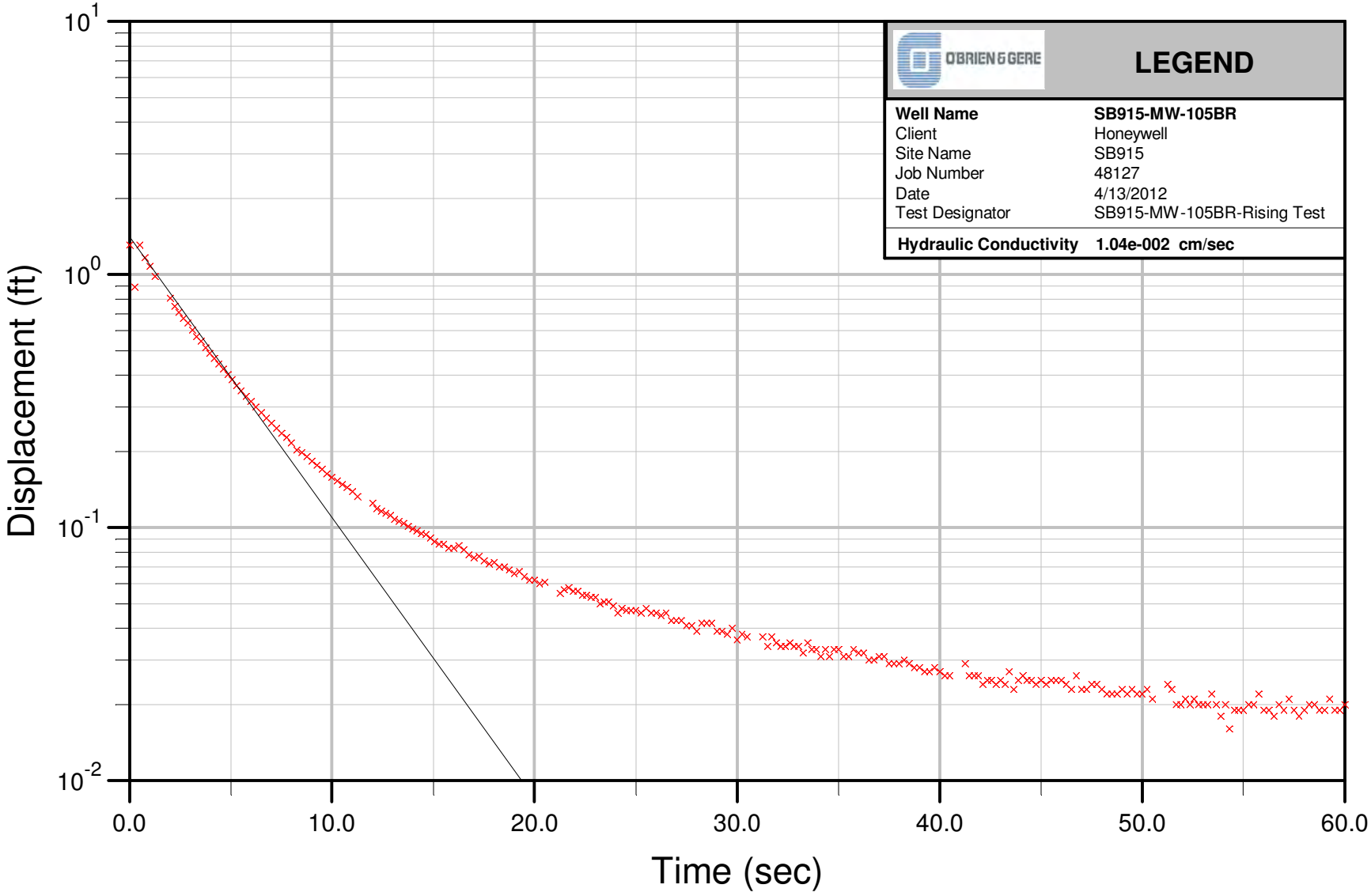
Bouwer & Rice


LEGEND
Well Name SB915-MW-104S
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/8/2012
Test Designator SB915-MW-104S-Rising Test
Hydraulic Conductivity 1.79787e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
2553.800
5107.600
7661.400
10215.200
12769.000
Time (sec)

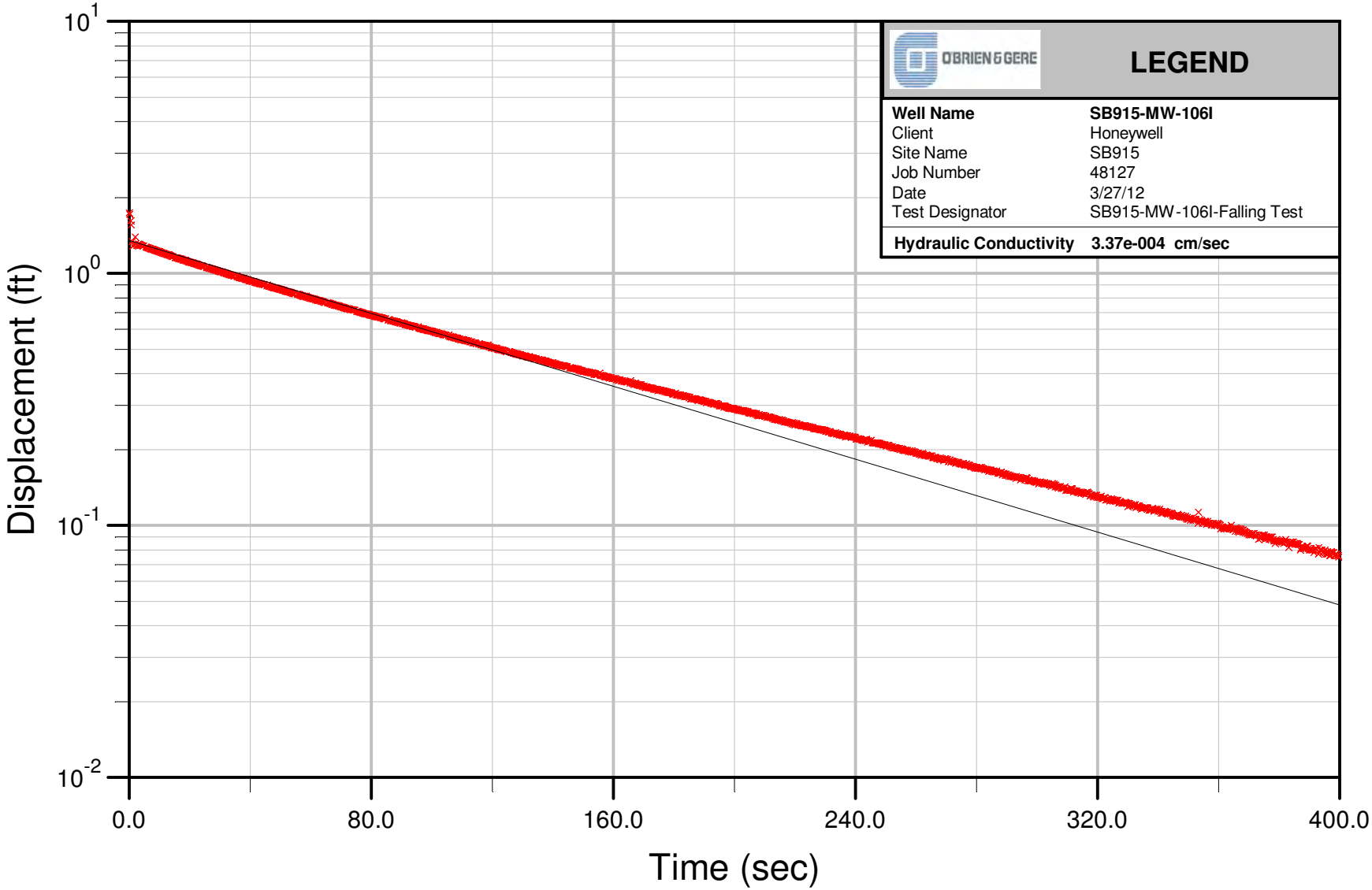
Bouwer & Rice


LEGEND
Well Name SB915-MW-105BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/13/2012
Test Designator SB915-MW-105BR-Falling Test
Hydraulic Conductivity 1.85e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
10.0
20.0
30.0
40.0
50.0
60.0

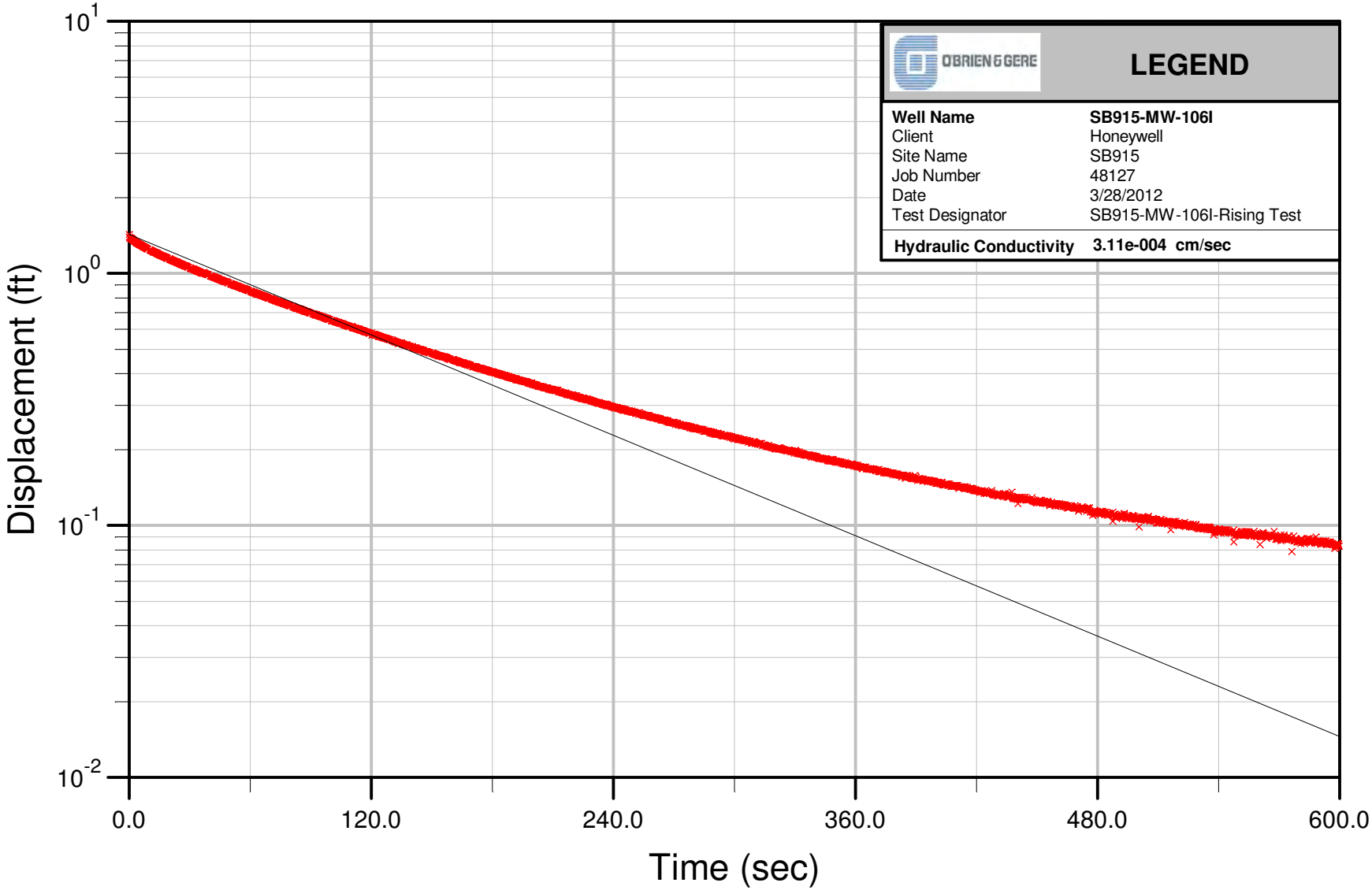
Bouwer & Rice


LEGEND
Well Name SB915-MW-105BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/13/2012
Test Designator SB915-MW-105BR-Rising Test
Hydraulic Conductivity 1.04e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
10.0
20.0
30.0
40.0
50.0
60.0

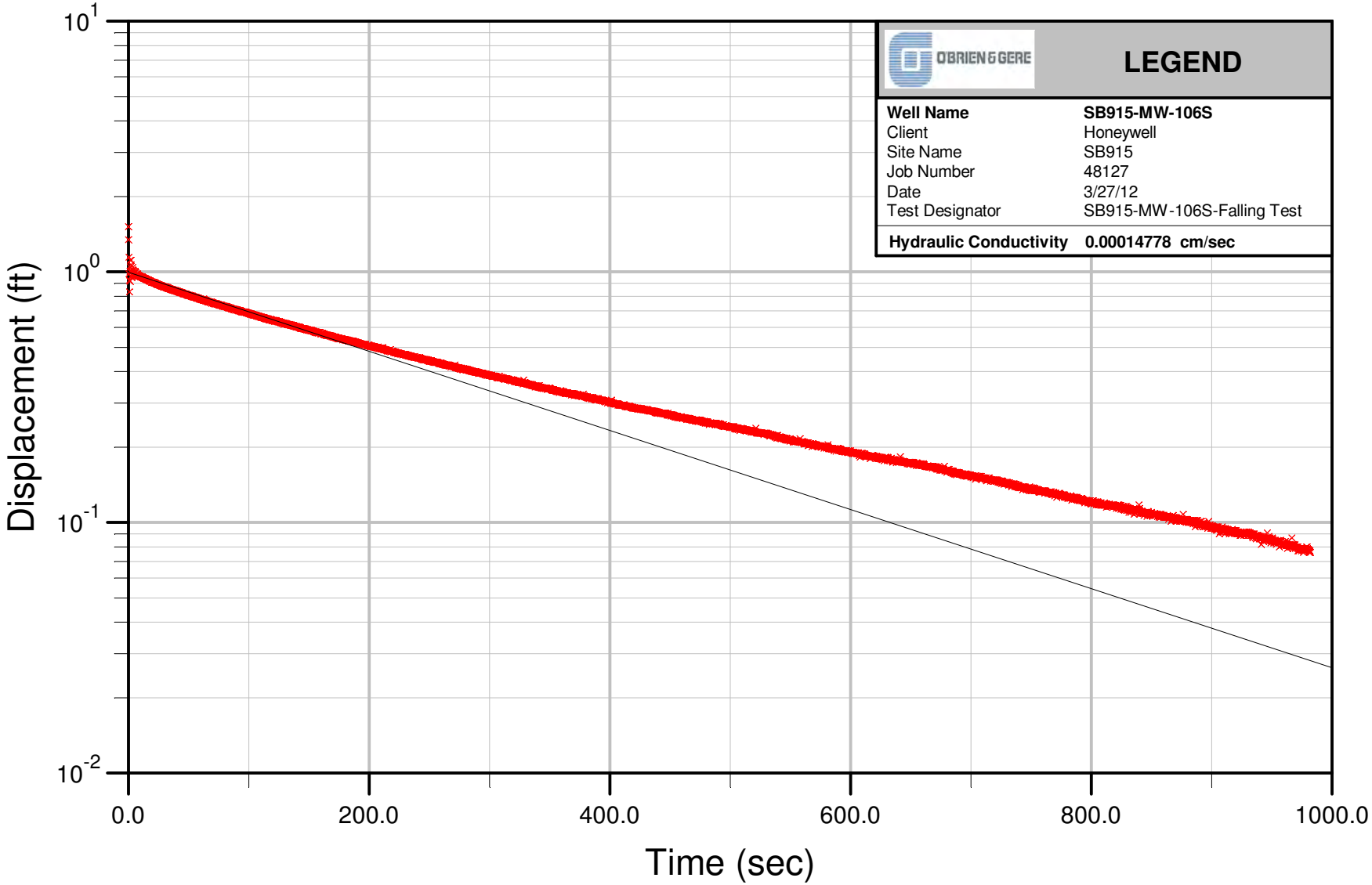
Bouwer & Rice


LEGEND
Well Name SB915-MW-106I
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/27/12
Test Designator SB915-MW-106I-Falling Test
Hydraulic Conductivity 3.37e-004 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
80.0
160.0
240.0
320.0
400.0
Time (sec)

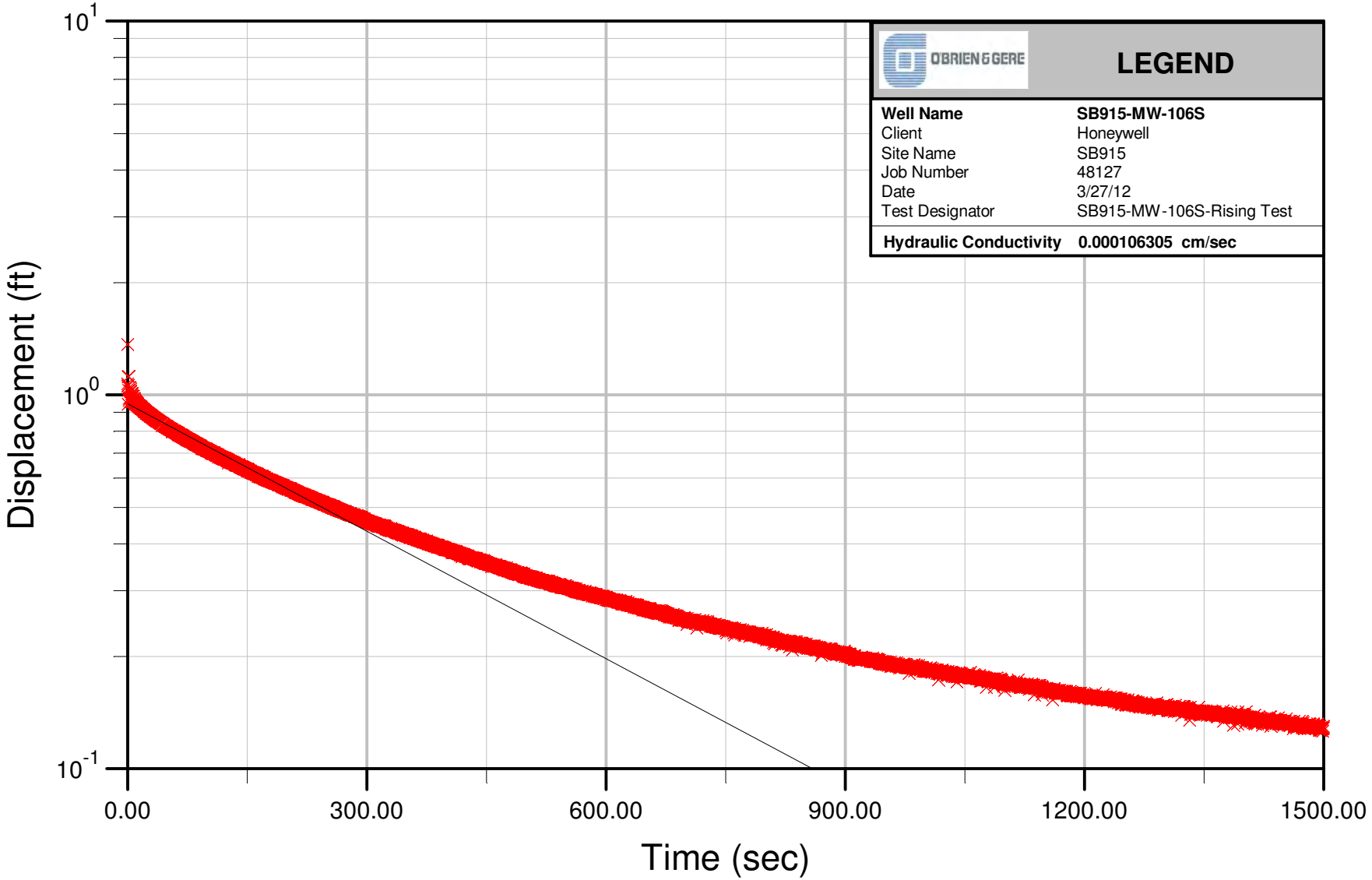
Bouwer & Rice


LEGEND
Well Name SB915-MW-106I
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/28/2012
Test Designator SB915-MW-106I-Rising Test
Hydraulic Conductivity 3.11e-004 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
120.0
240.0
360.0
480.0
600.0
Time (sec)

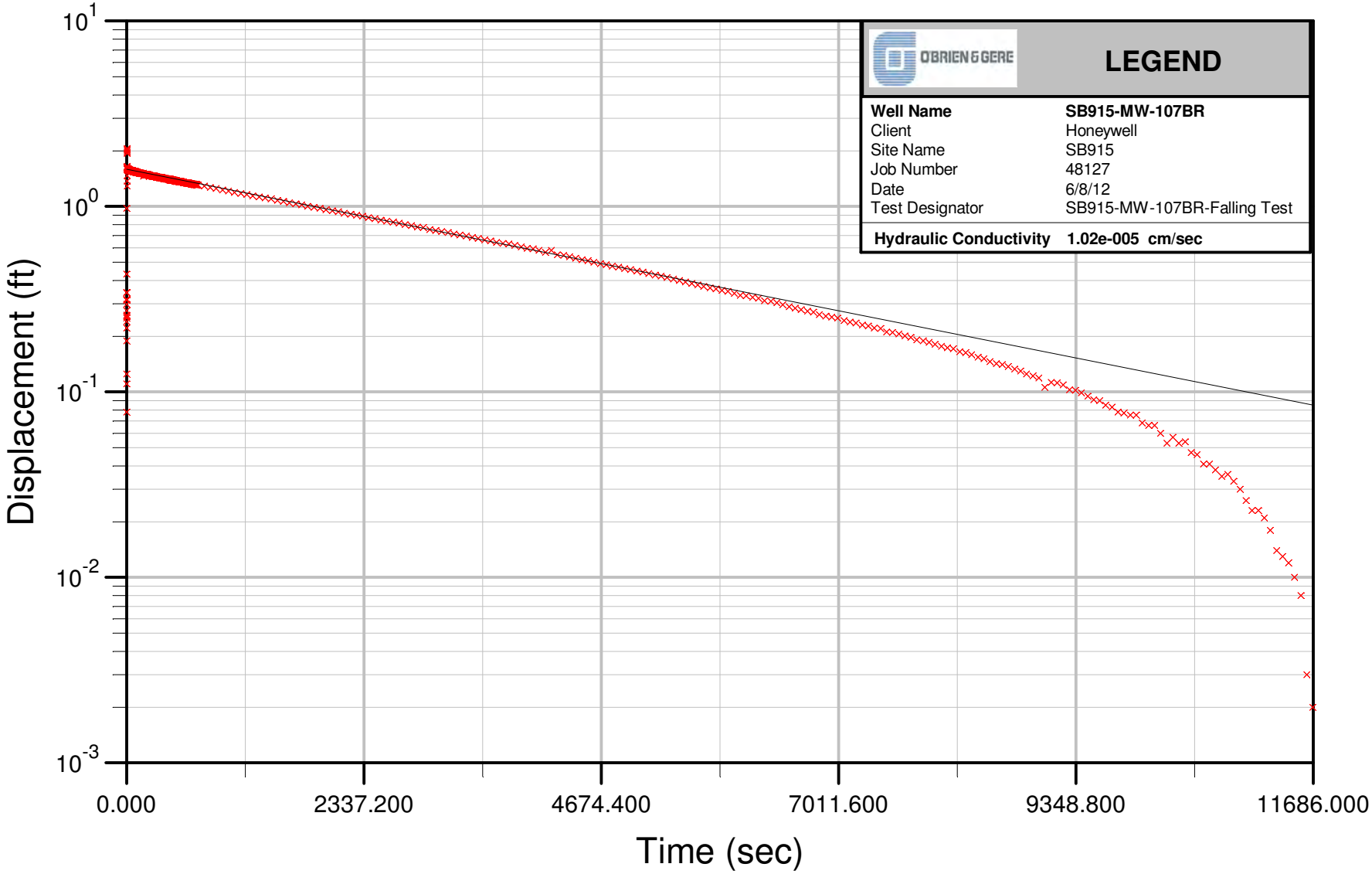
Bouwer & Rice


LEGEND
Well Name SB915-MW-106S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/27/12
Test Designator SB915-MW-106S-Falling Test
Hydraulic Conductivity 0.00014778 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
200.0
400.0
600.0
800.0
1000.0
Time (sec)

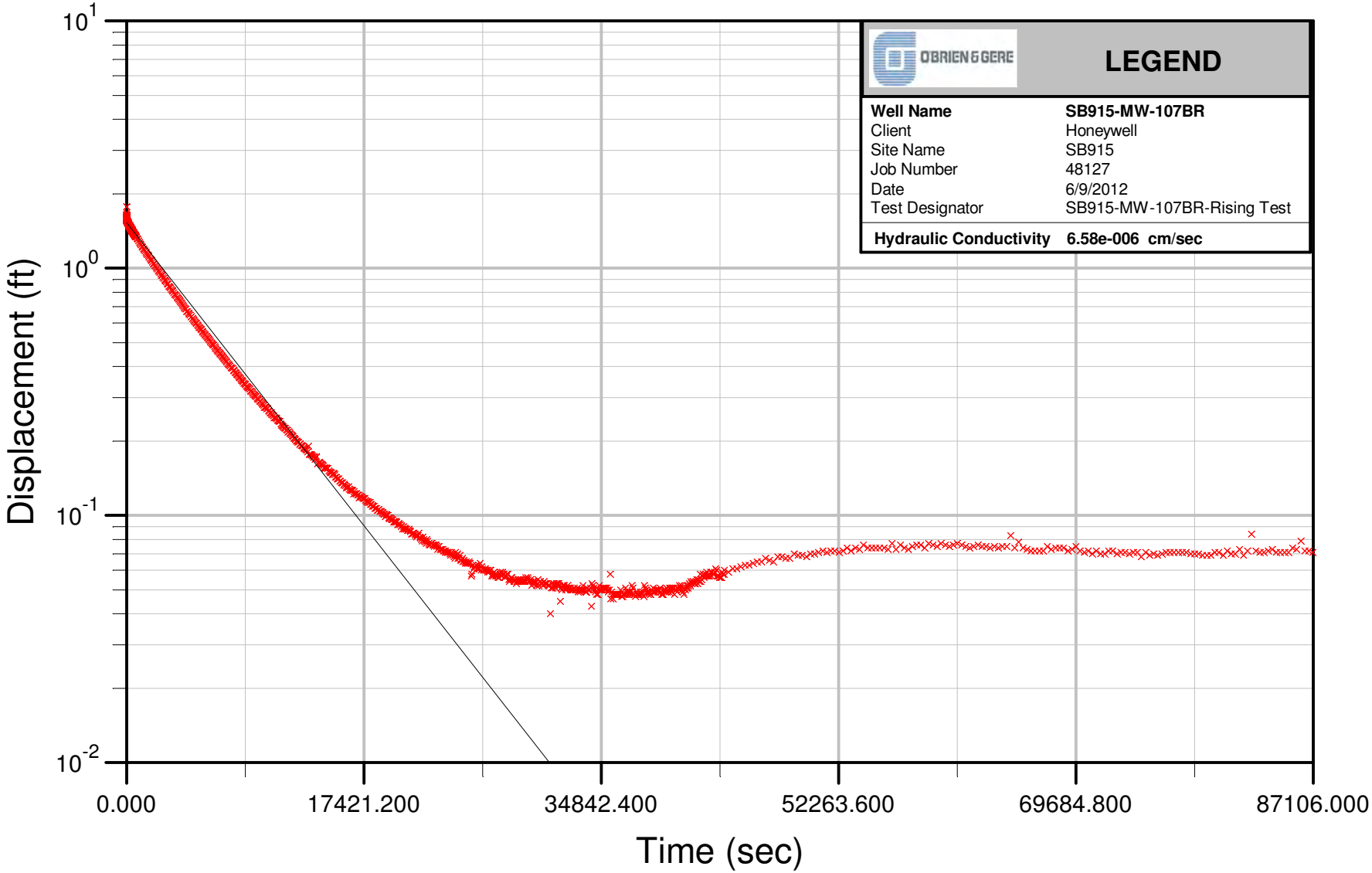
Bouwer & Rice


LEGEND
Well Name SB915-MW-106S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/27/12
Test Designator SB915-MW-106S-Rising Test
Hydraulic Conductivity 0.000106305 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
300.00
600.00
900.00
1200.00
1500.00

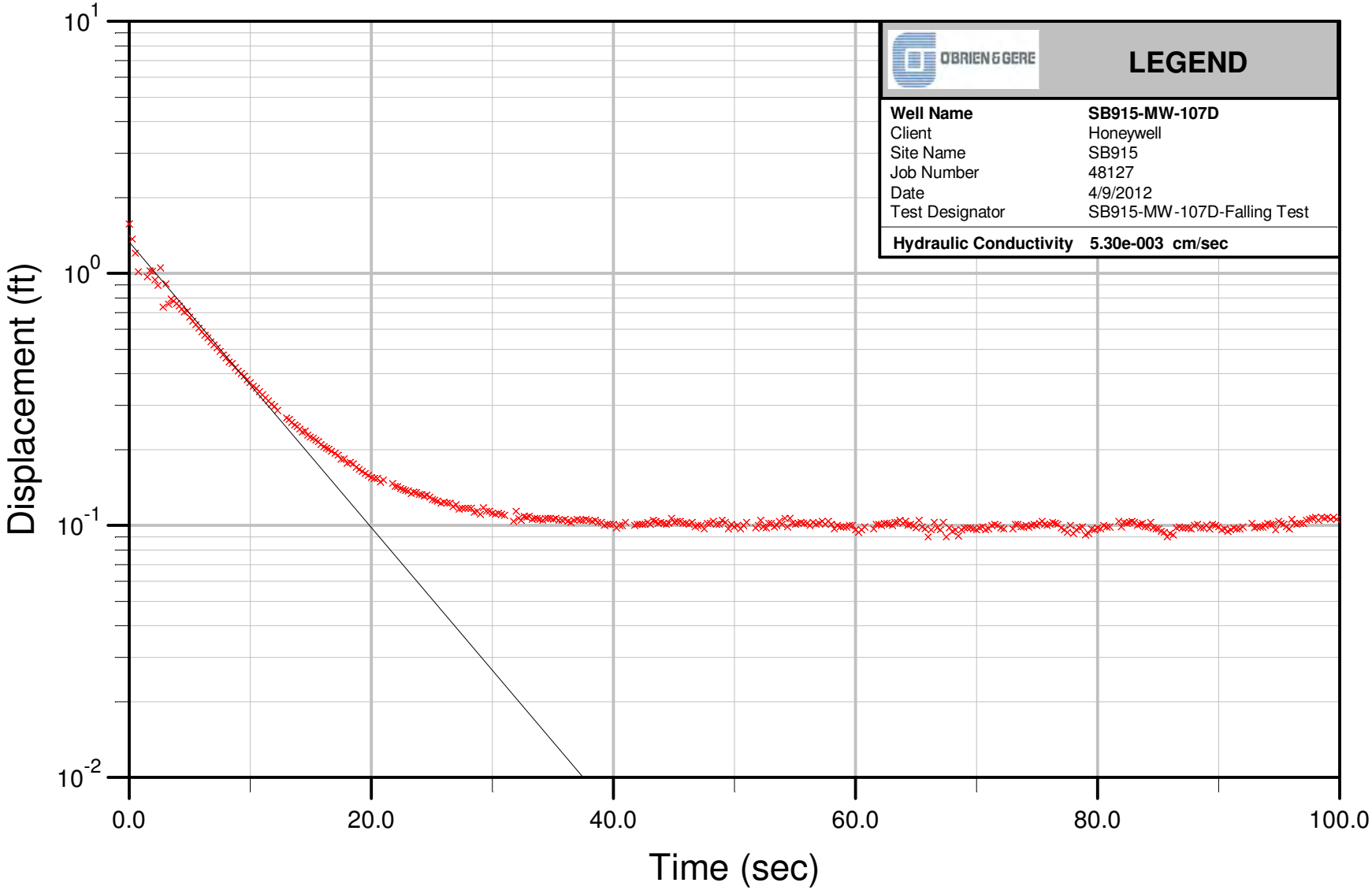
Bouwer & Rice


LEGEND
Well Name SB915-MW-107BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/8/12
Test Designator SB915-MW-107BR-Falling Test
Hydraulic Conductivity 1.02e-005 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.000
2337.200
4674.400
7011.600
9348.800
11686.000

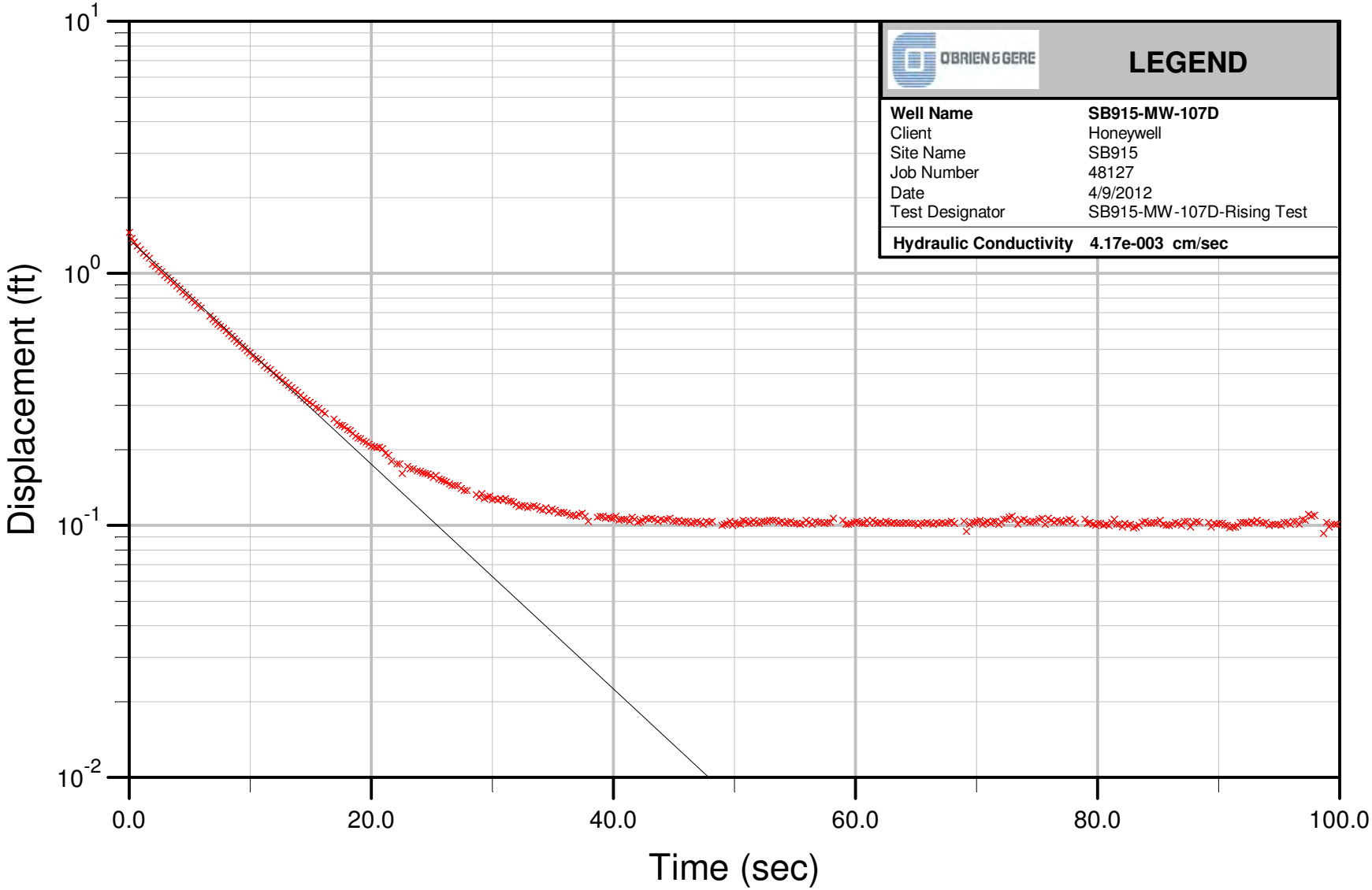
Bouwer & Rice


LEGEND
Well Name SB915-MW-107BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/9/2012
Test Designator SB915-MW-107BR-Rising Test
Hydraulic Conductivity 6.58e-006 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
17421.200
34842.400
52263.600
69684.800
87106.000
Time (sec)

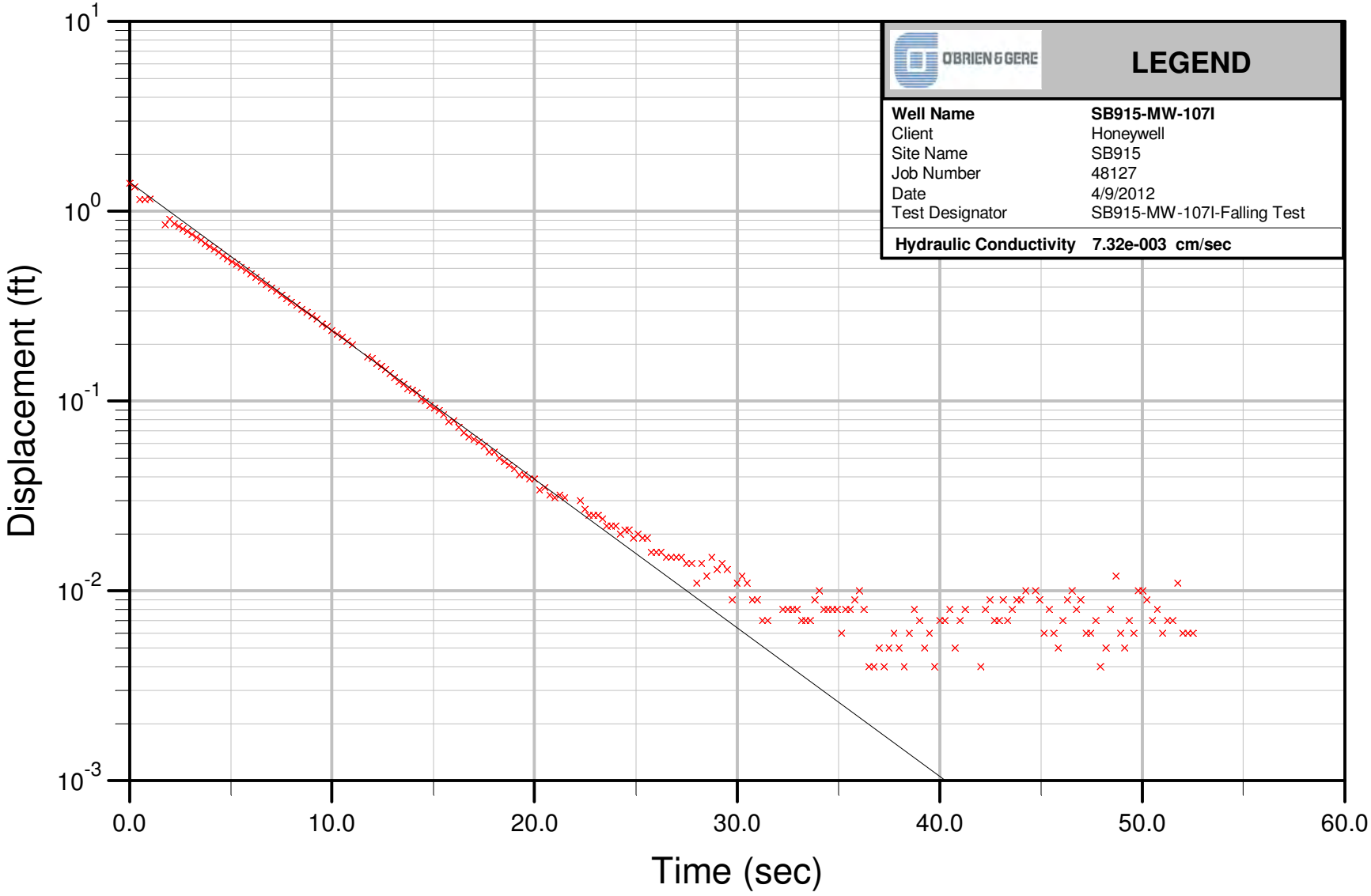
Bouwer & Rice


LEGEND
Well Name SB915-MW-107D
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/9/2012
Test Designator SB915-MW-107D-Falling Test
Hydraulic Conductivity 5.30e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
20.0
40.0
60.0
80.0
100.0

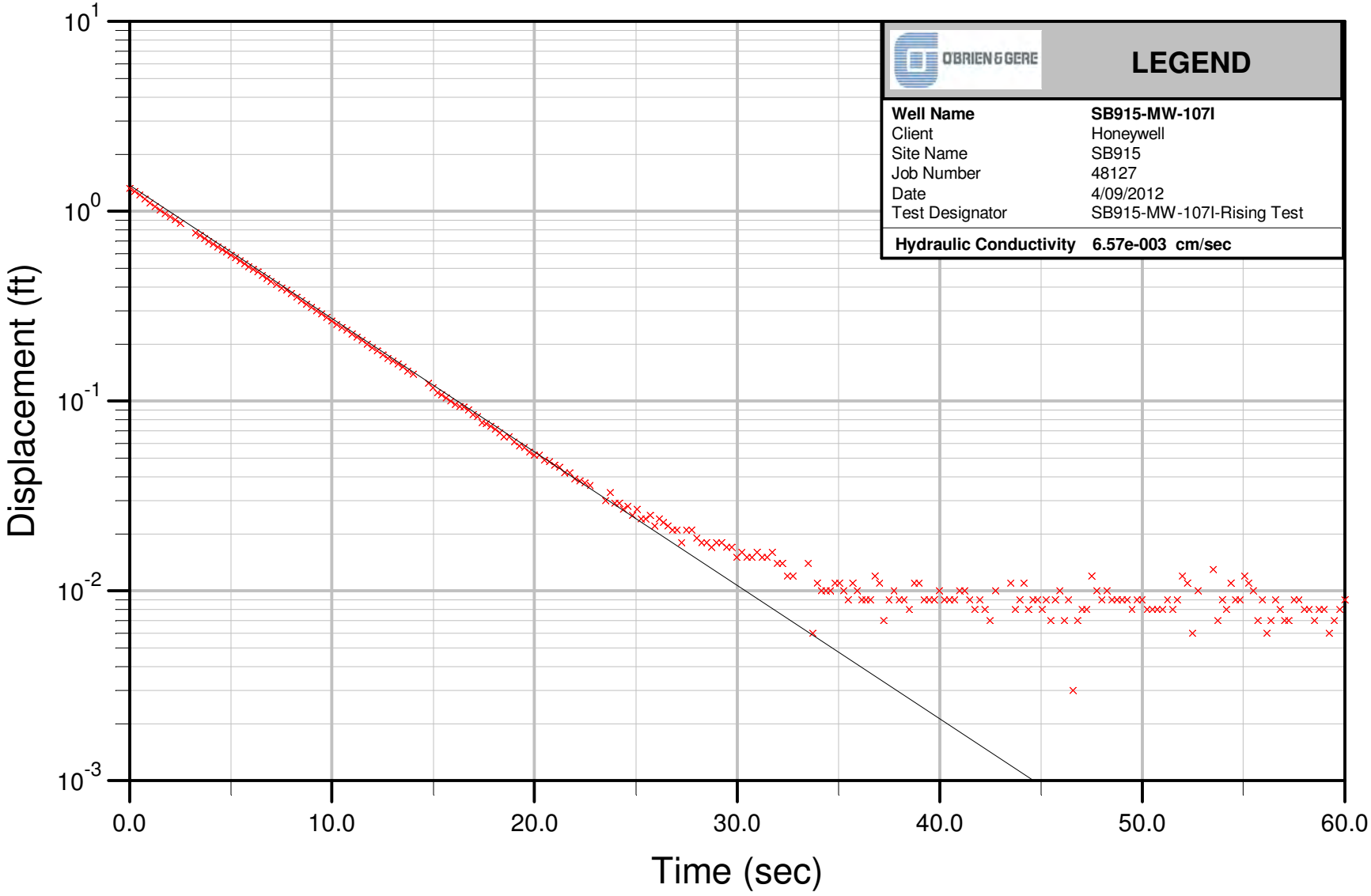
Bouwer & Rice


LEGEND
Well Name SB915-MW-107D
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/9/2012
Test Designator SB915-MW-107D-Rising Test
Hydraulic Conductivity 4.17e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
20.0
40.0
60.0
80.0
100.0

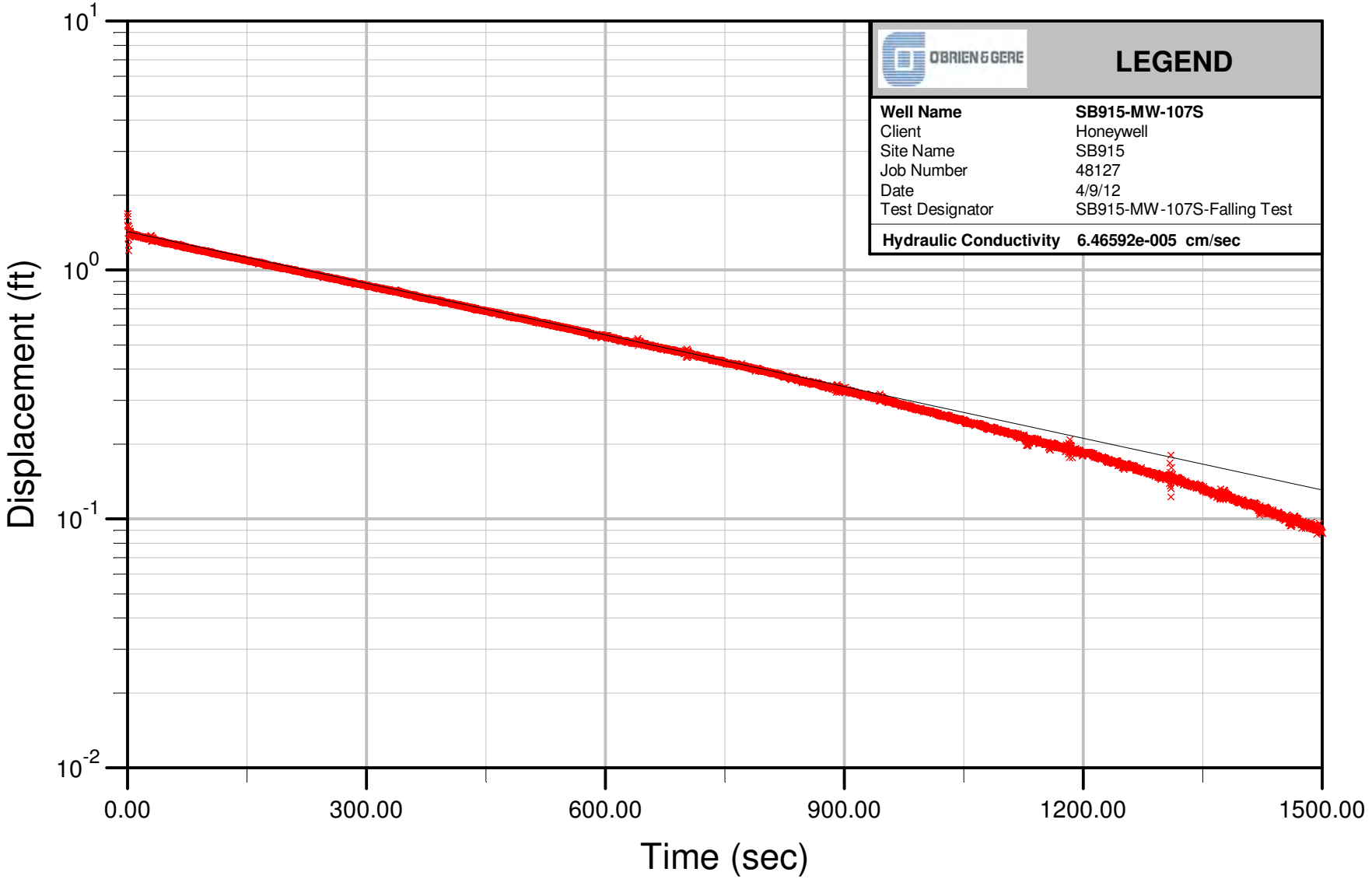
Bouwer & Rice


LEGEND
Well Name SB915-MW-107I
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/9/2012
Test Designator SB915-MW-107I-Falling Test
Hydraulic Conductivity 7.32e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
10.0
20.0
30.0
40.0
50.0
60.0

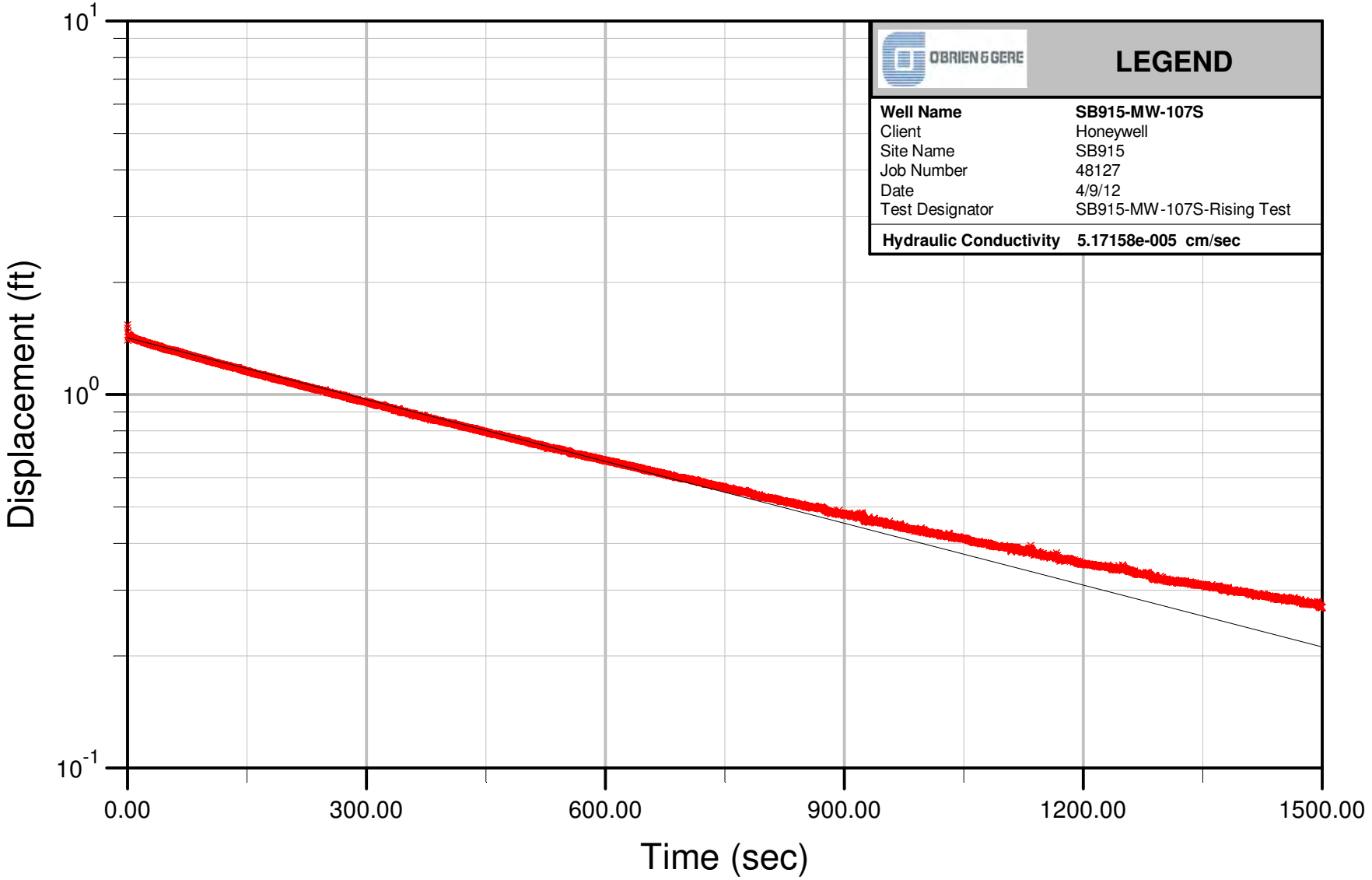
Bouwer & Rice


LEGEND
Well Name SB915-MW-107I
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/09/2012
Test Designator SB915-MW-107I-Rising Test
Hydraulic Conductivity 6.57e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
10.0
20.0
30.0
40.0
50.0
60.0

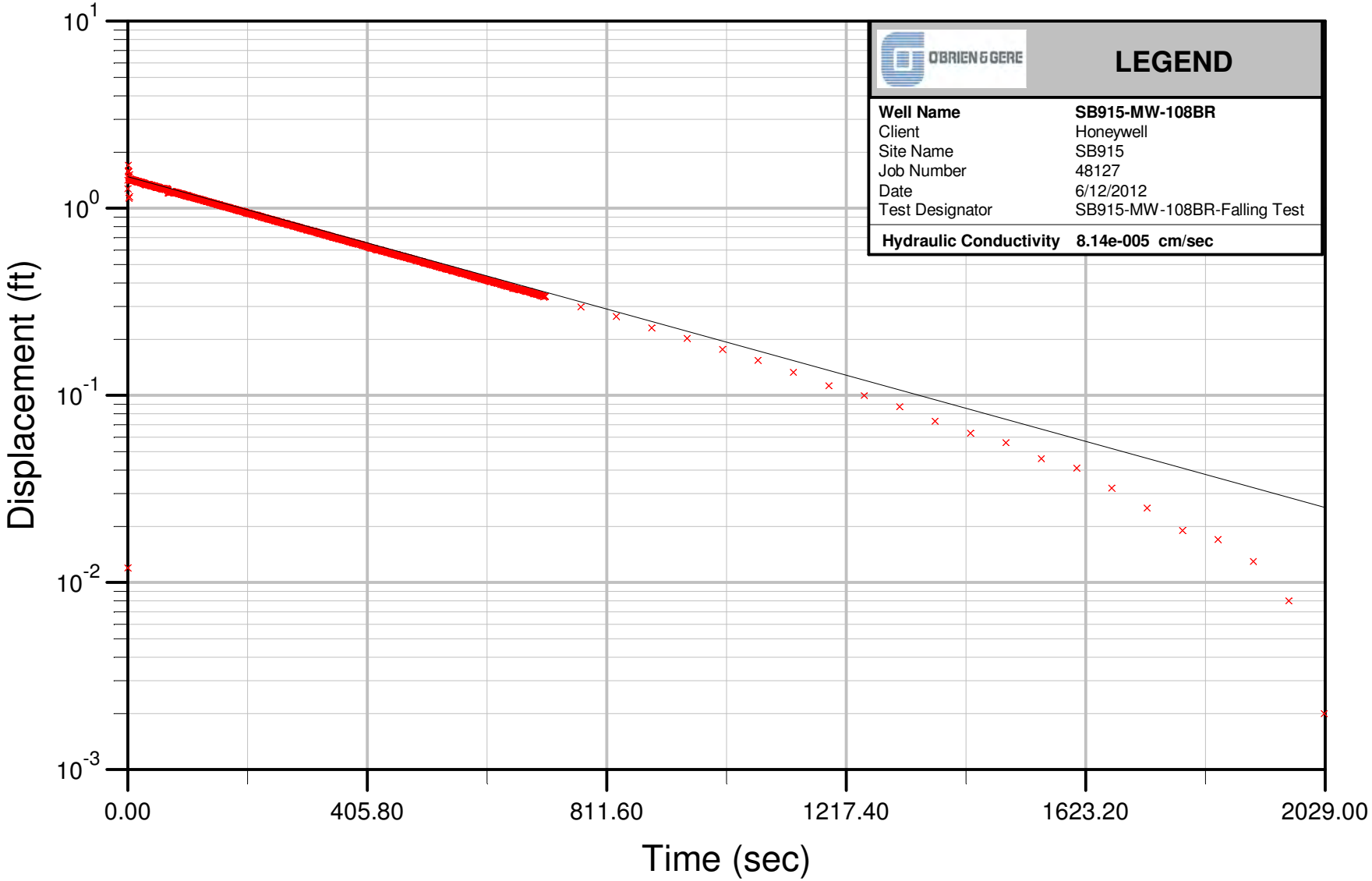
Bouwer & Rice


LEGEND
Well Name SB915-MW-107S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/9/12
Test Designator SB915-MW-107S-Falling Test
Hydraulic Conductivity 6.46592e-005 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
300.00
600.00
900.00
1200.00
1500.00

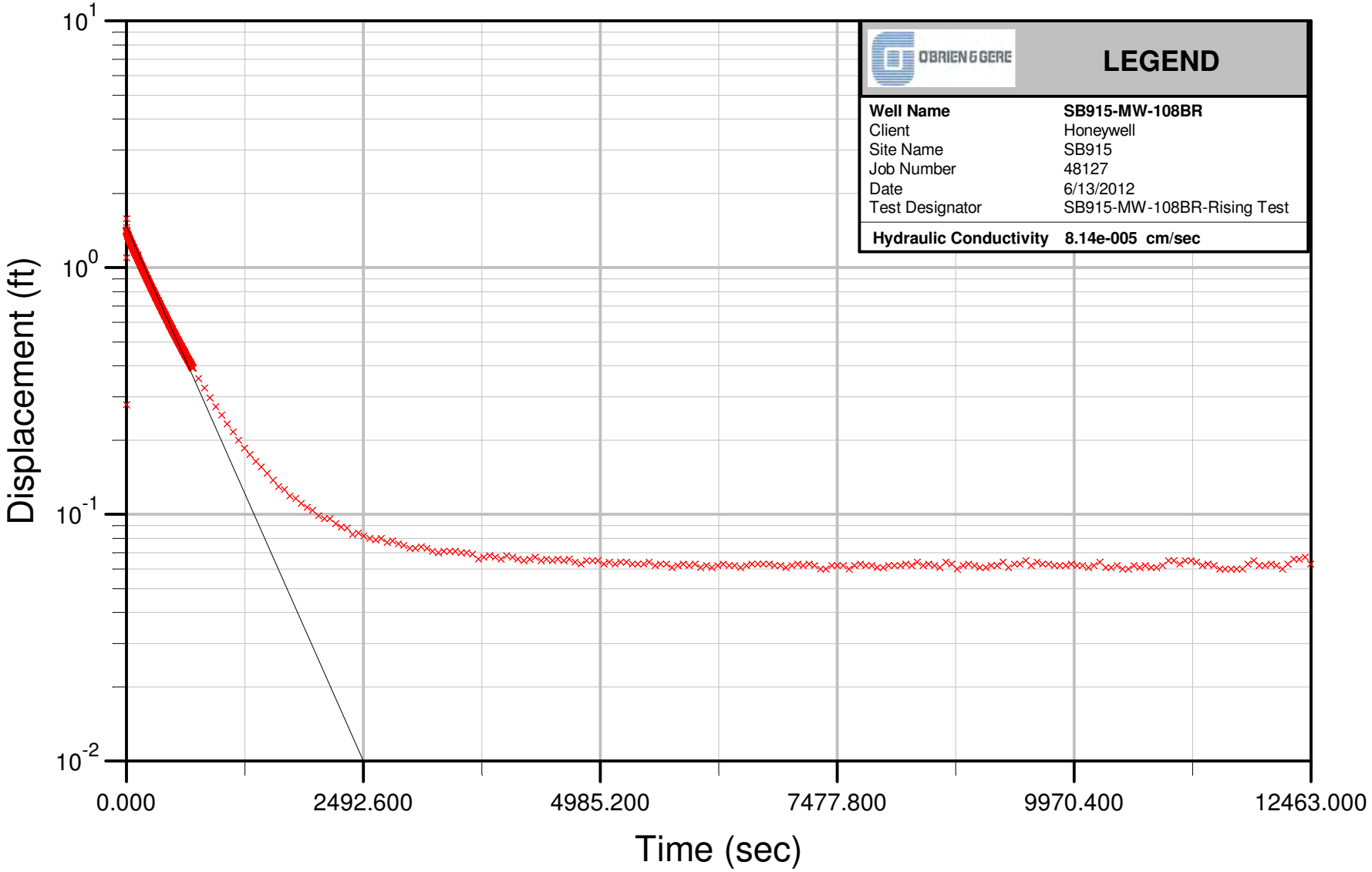
Bouwer & Rice


LEGEND
Well Name SB915-MW-107S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/9/12
Test Designator SB915-MW-107S-Rising Test
Hydraulic Conductivity 5.17158e-005 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.00
300.00
600.00
900.00
1200.00
1500.00
Time (sec)

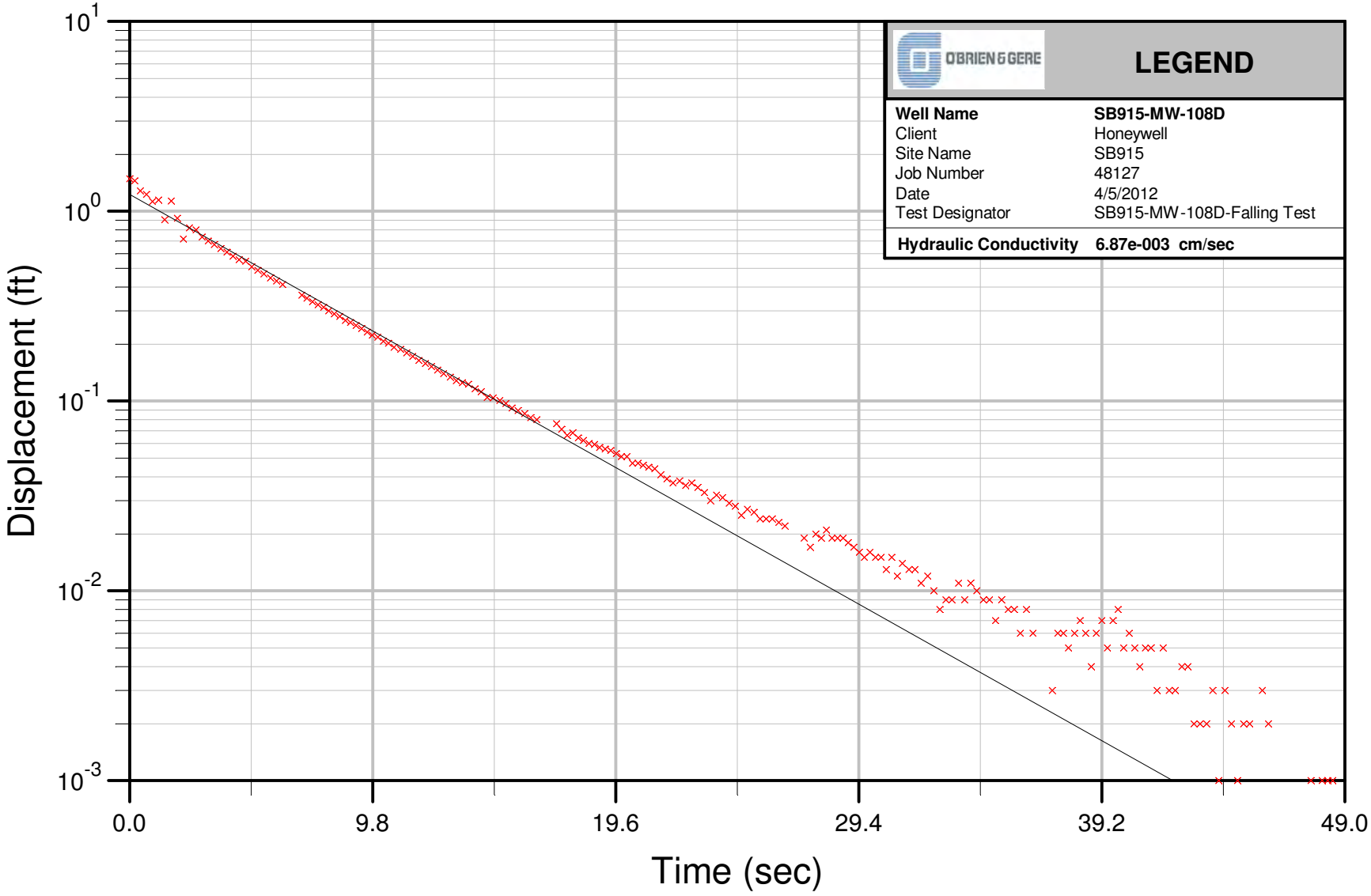
Bouwer & Rice


LEGEND
Well Name SB915-MW-108BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/12/2012
Test Designator SB915-MW-108BR-Falling Test
Hydraulic Conductivity 8.14e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.00
405.80
811.60
1217.40
1623.20
2029.00
Time (sec)

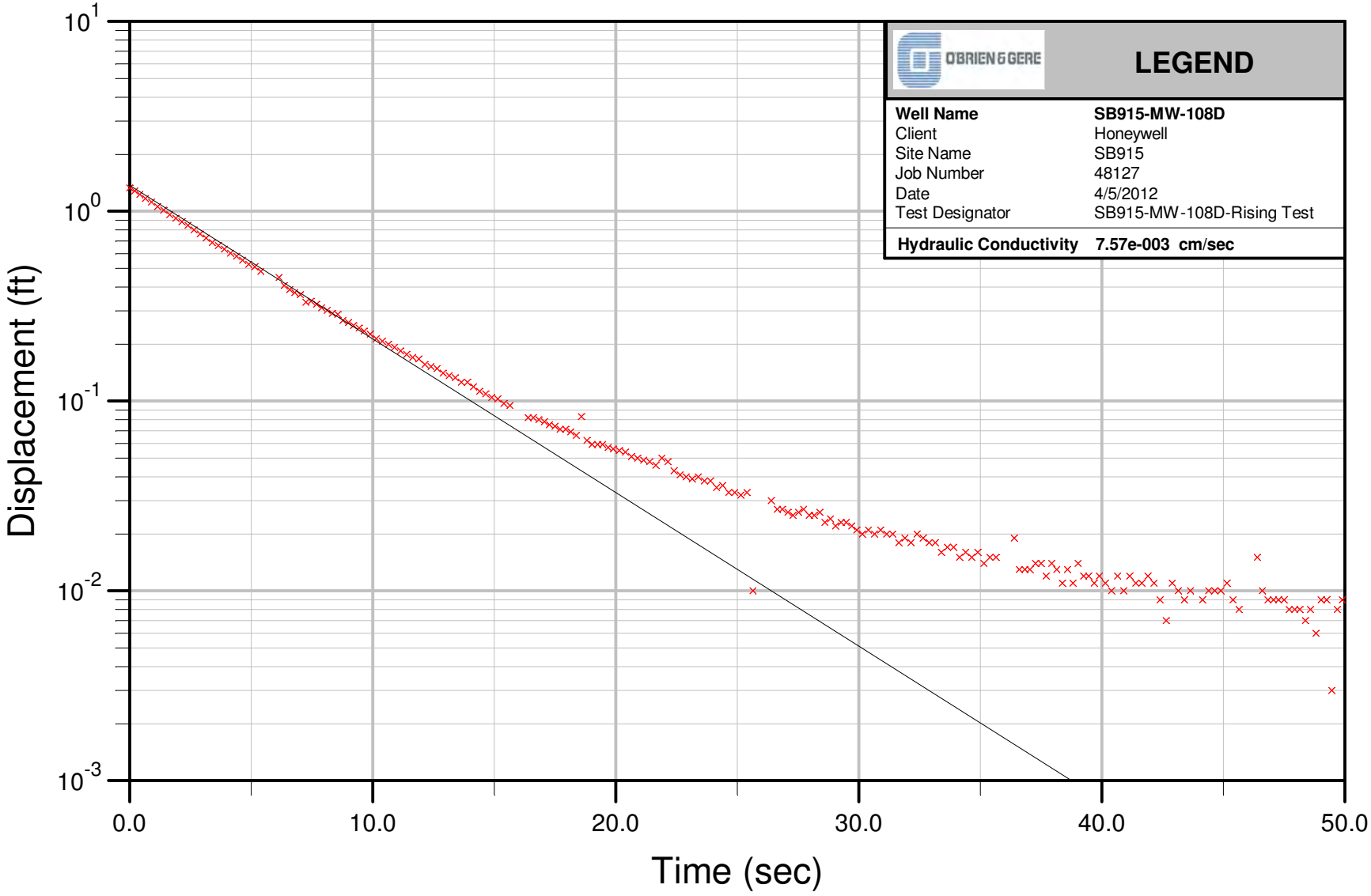
Bouwer & Rice


LEGEND
Well Name SB915-MW-108BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/13/2012
Test Designator SB915-MW-108BR-Rising Test
Hydraulic Conductivity 8.14e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
2492.600
4985.200
7477.800
9970.400
12463.000
Time (sec)

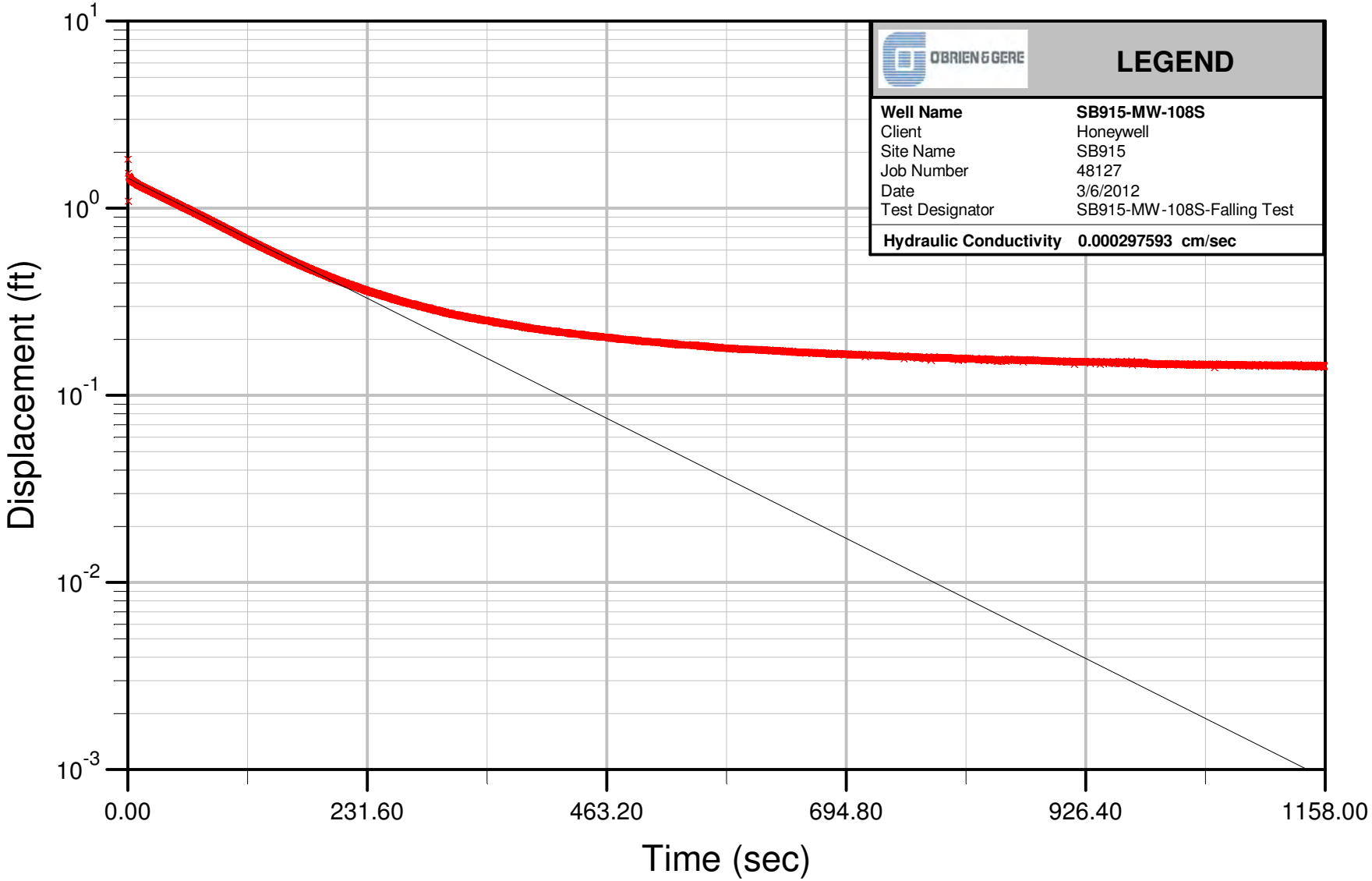
Bouwer & Rice


LEGEND
Well Name SB915-MW-108D
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/5/2012
Test Designator SB915-MW-108D-Falling Test
Hydraulic Conductivity 6.87e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
9.8
19.6
29.4
39.2
49.0

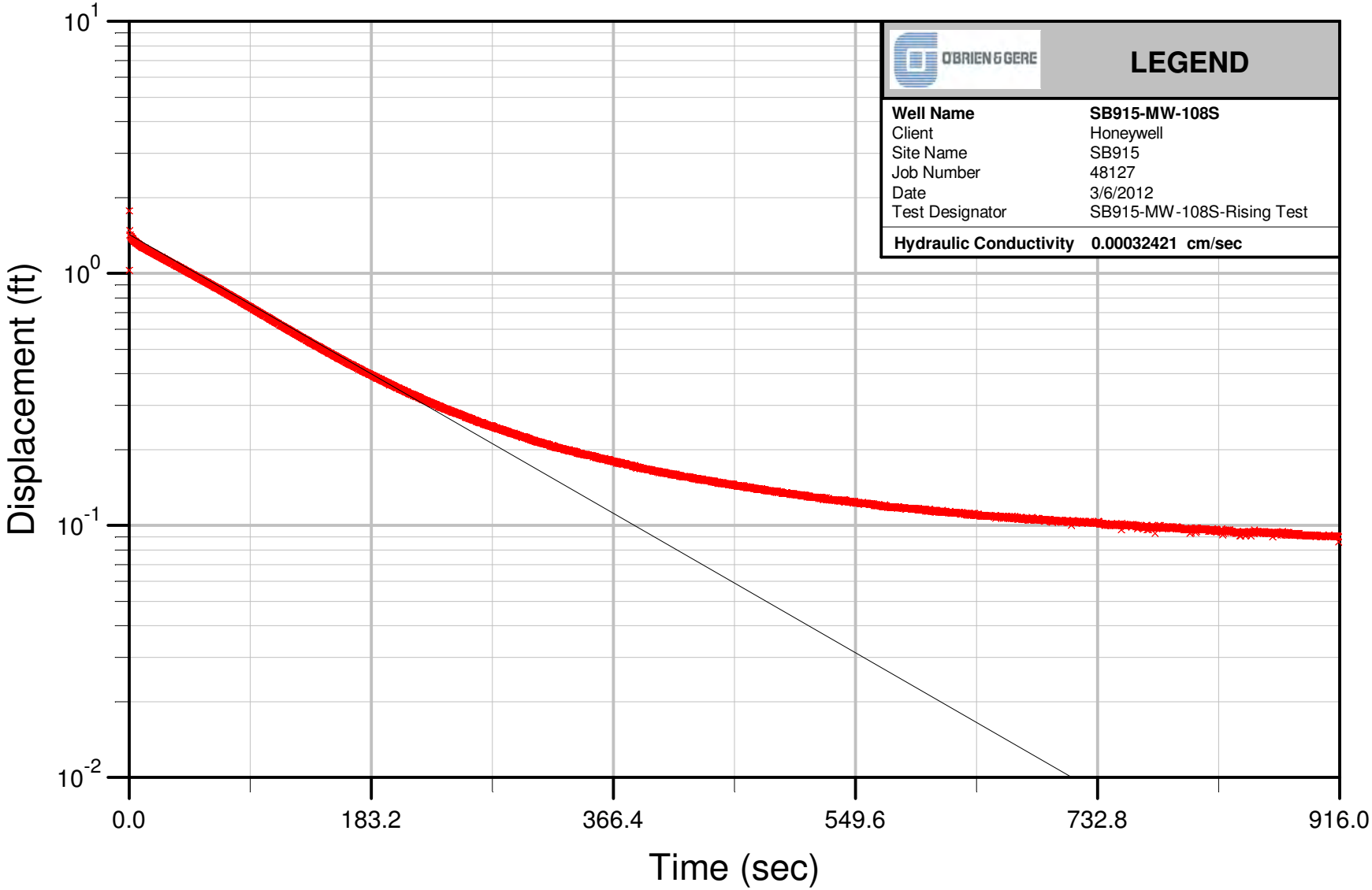
Bouwer & Rice


LEGEND
Well Name SB915-MW-108D
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/5/2012
Test Designator SB915-MW-108D-Rising Test
Hydraulic Conductivity 7.57e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
10.0
20.0
30.0
40.0
50.0

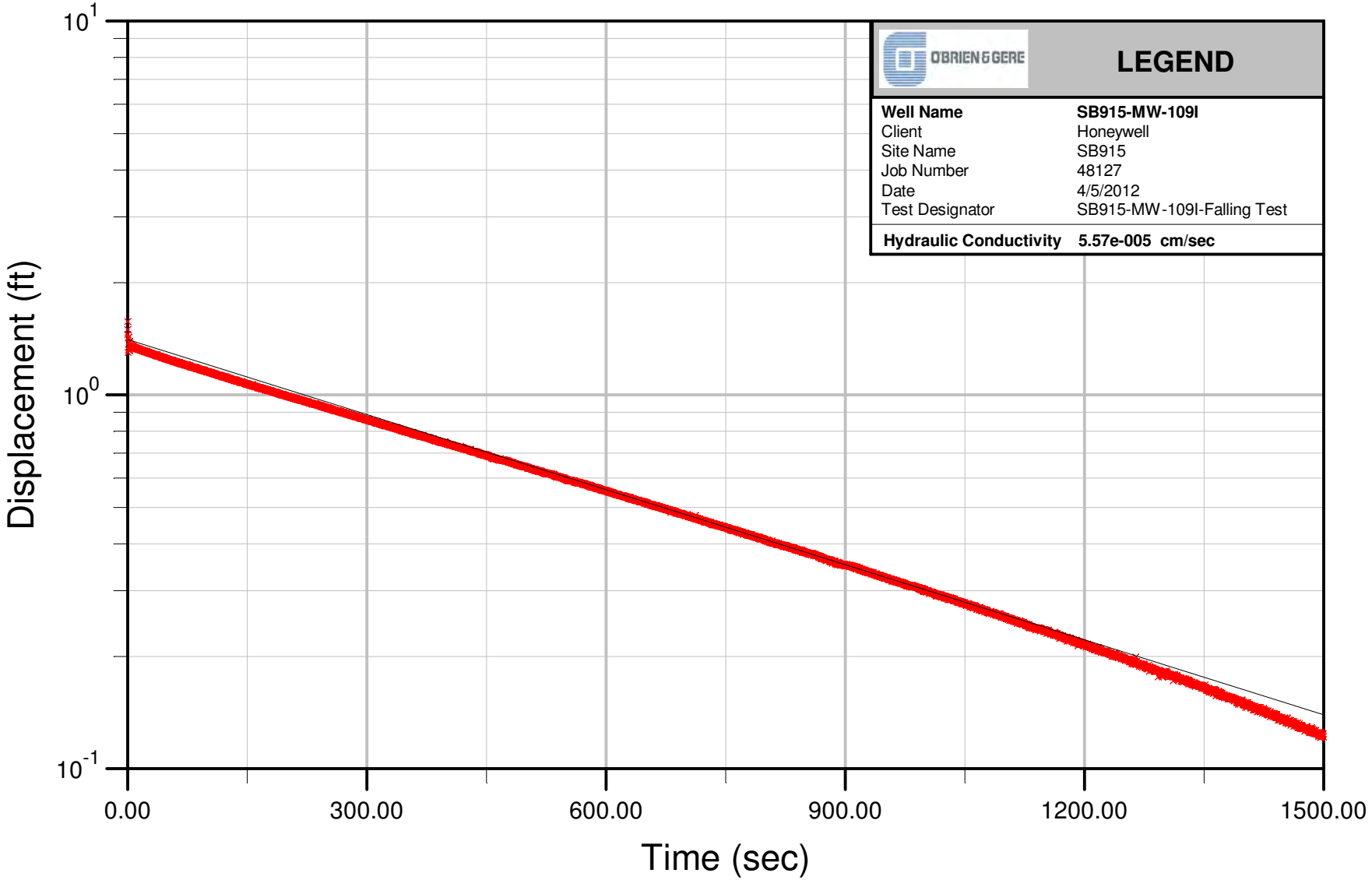
Bouwer & Rice


LEGEND
Well Name SB915-MW-108S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/6/2012
Test Designator SB915-MW-108S-Falling Test
Hydraulic Conductivity 0.000297593 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.00
231.60
463.20
694.80
926.40
1158.00
Time (sec)

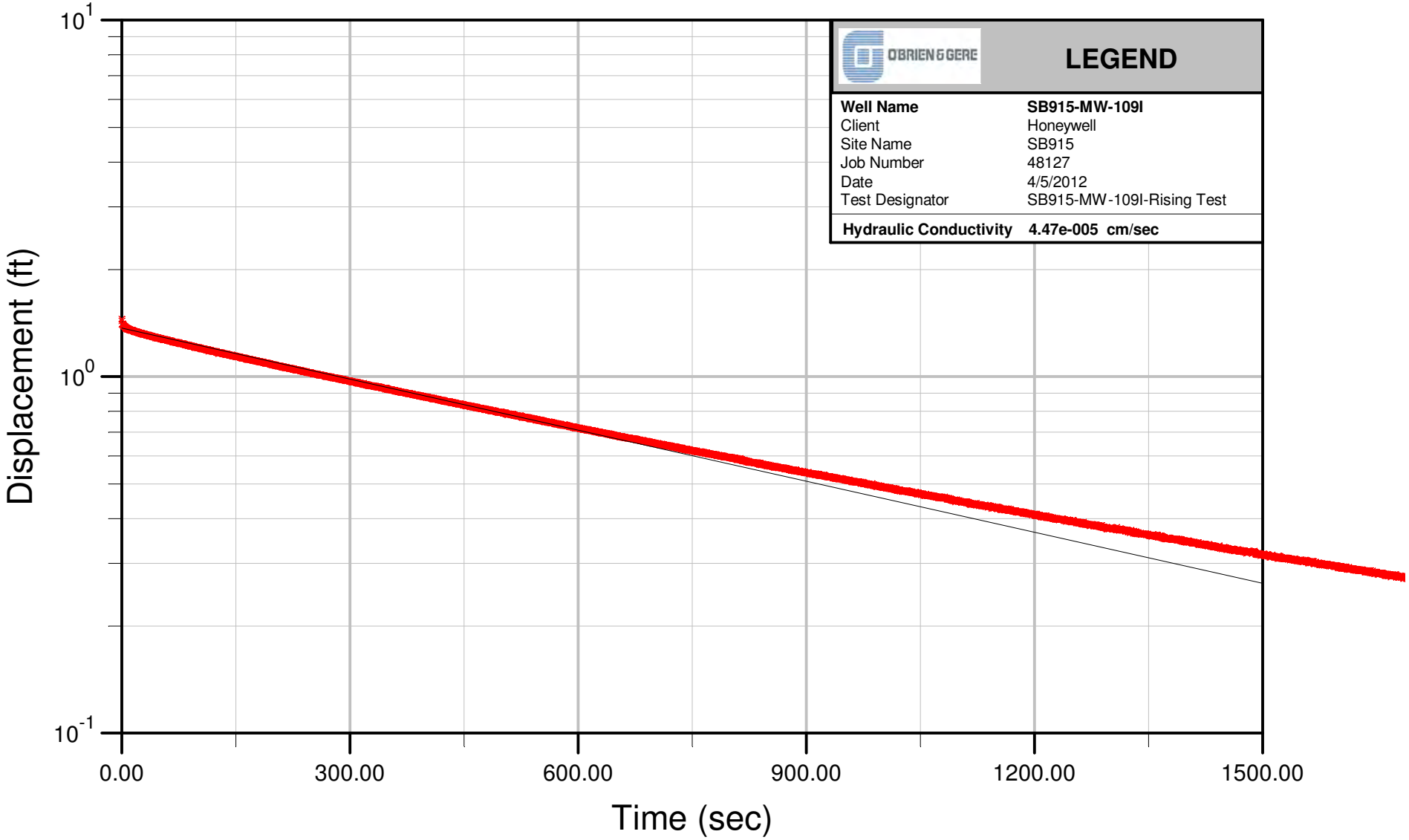
Bouwer & Rice


LEGEND
Well Name SB915-MW-108S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/6/2012
Test Designator SB915-MW-108S-Rising Test
Hydraulic Conductivity 0.00032421 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
183.2
366.4
549.6
732.8
916.0
Time (sec)

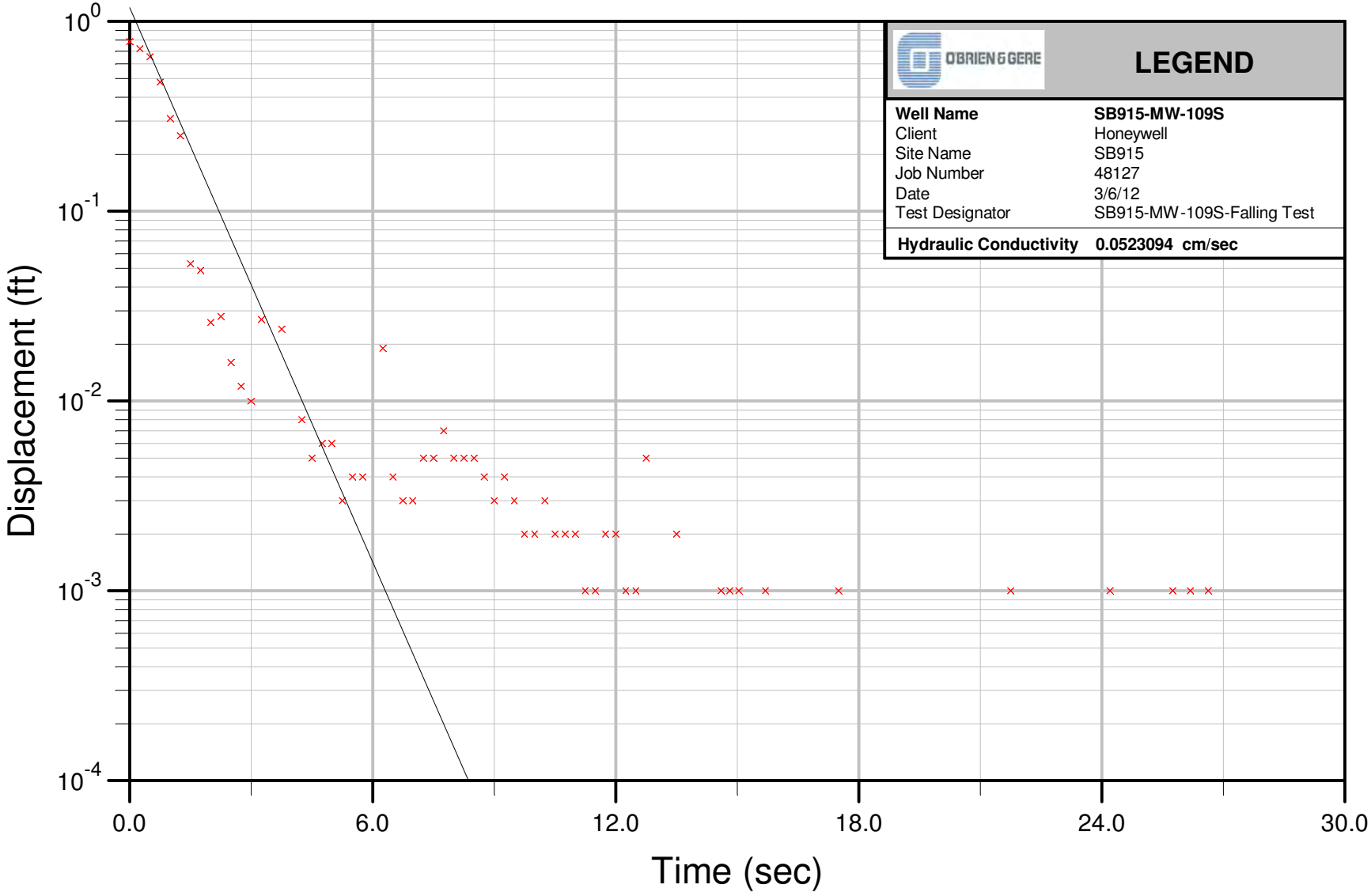
Bouwer & Rice


LEGEND
Well Name SB915-MW-109I
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/5/2012
Test Designator SB915-MW-109I-Falling Test
Hydraulic Conductivity 5.57e-005 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.00
300.00
600.00
900.00
1200.00
1500.00
Time (sec)

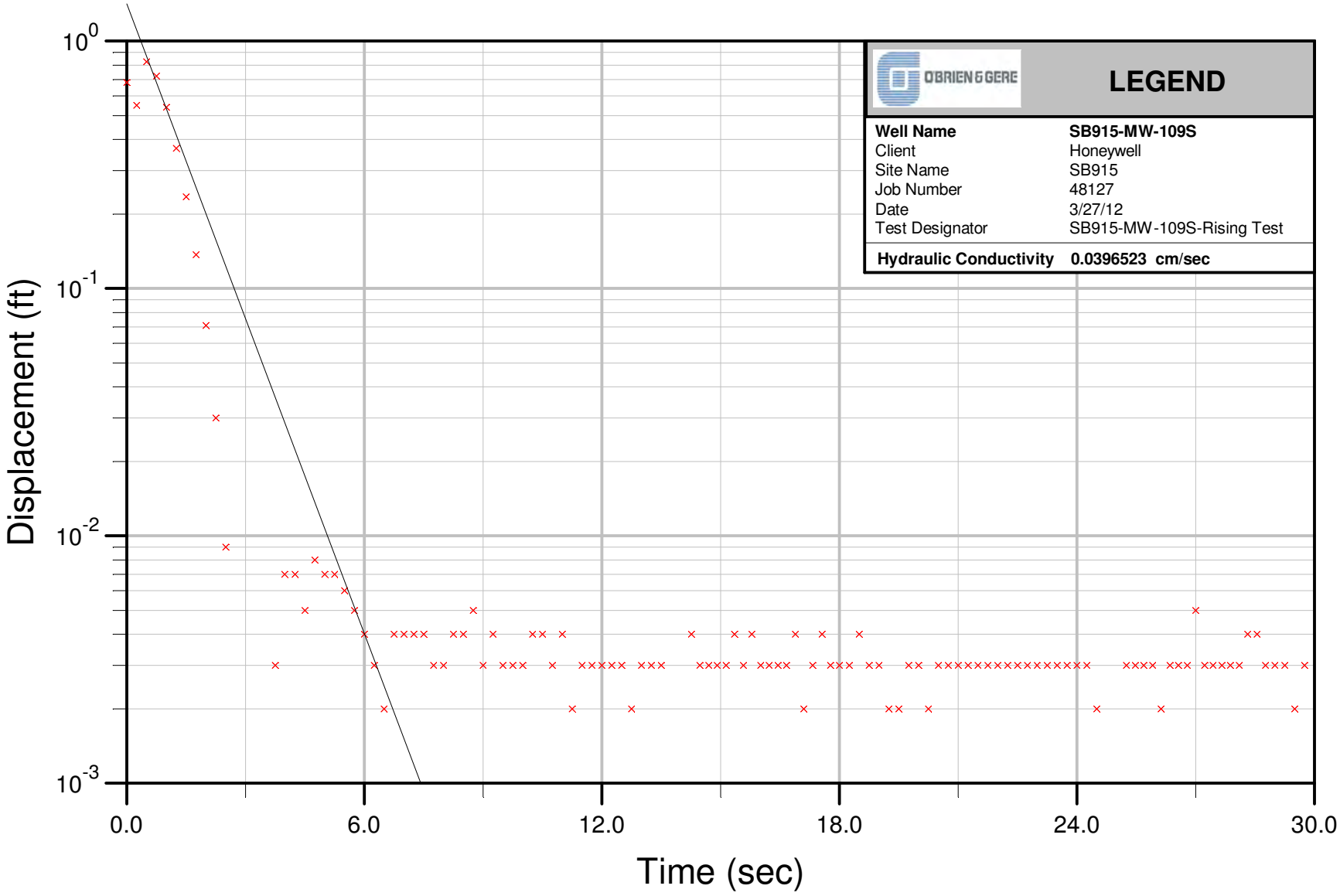
Bouwer & Rice


LEGEND
Well Name SB915-MW-109I
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/5/2012
Test Designator SB915-MW-109I-Rising Test
Hydraulic Conductivity 4.47e-005 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
300.00
600.00
900.00
1200.00
1500.00

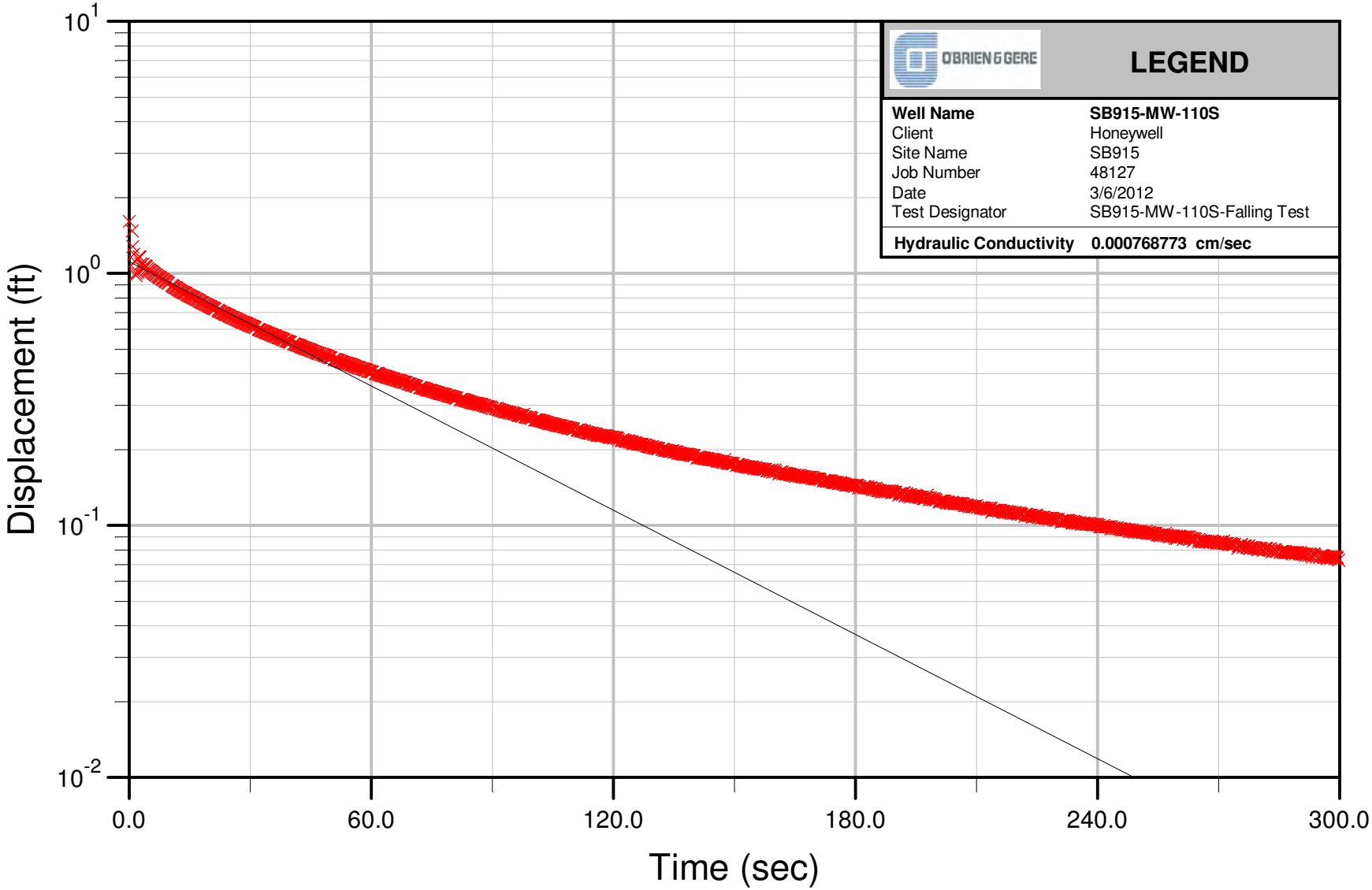
Bouwer & Rice


Displacement (ft)
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
0.0
6.0
12.0
18.0
24.0
30.0
Time (sec)
O'BRIEN & GERE
LEGEND
Well Name SB915-MW-109S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/6/12
Test Designator SB915-MW-109S-Falling Test
Hydraulic Conductivity 0.0523094 cm/sec

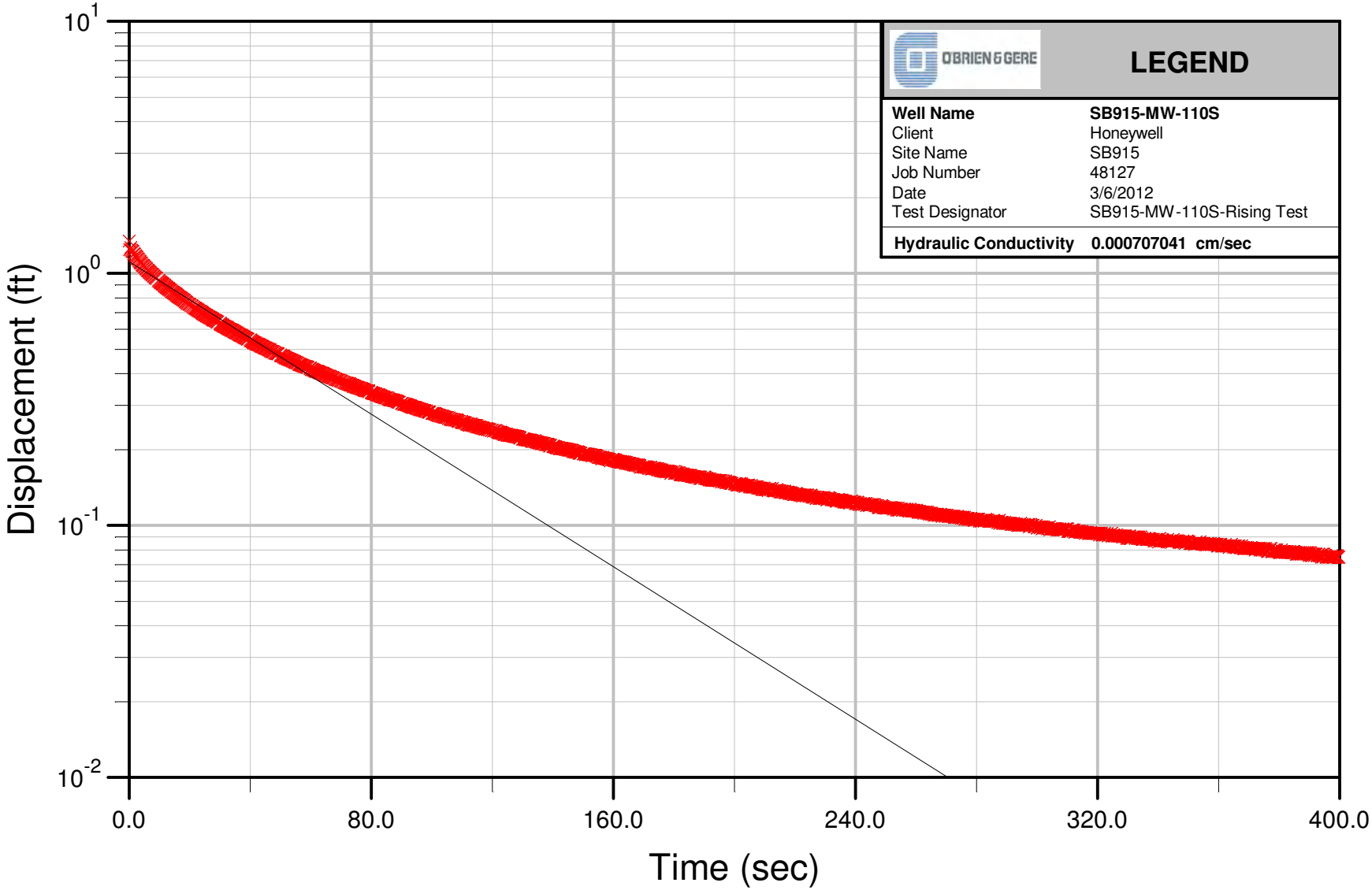
Bouwer & Rice


Displacement (ft)
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
6.0
12.0
18.0
24.0
30.0
Time (sec)
O'BRIEN & GERE
LEGEND
Well Name SB915-MW-109S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/27/12
Test Designator SB915-MW-109S-Rising Test
Hydraulic Conductivity 0.0396523 cm/sec

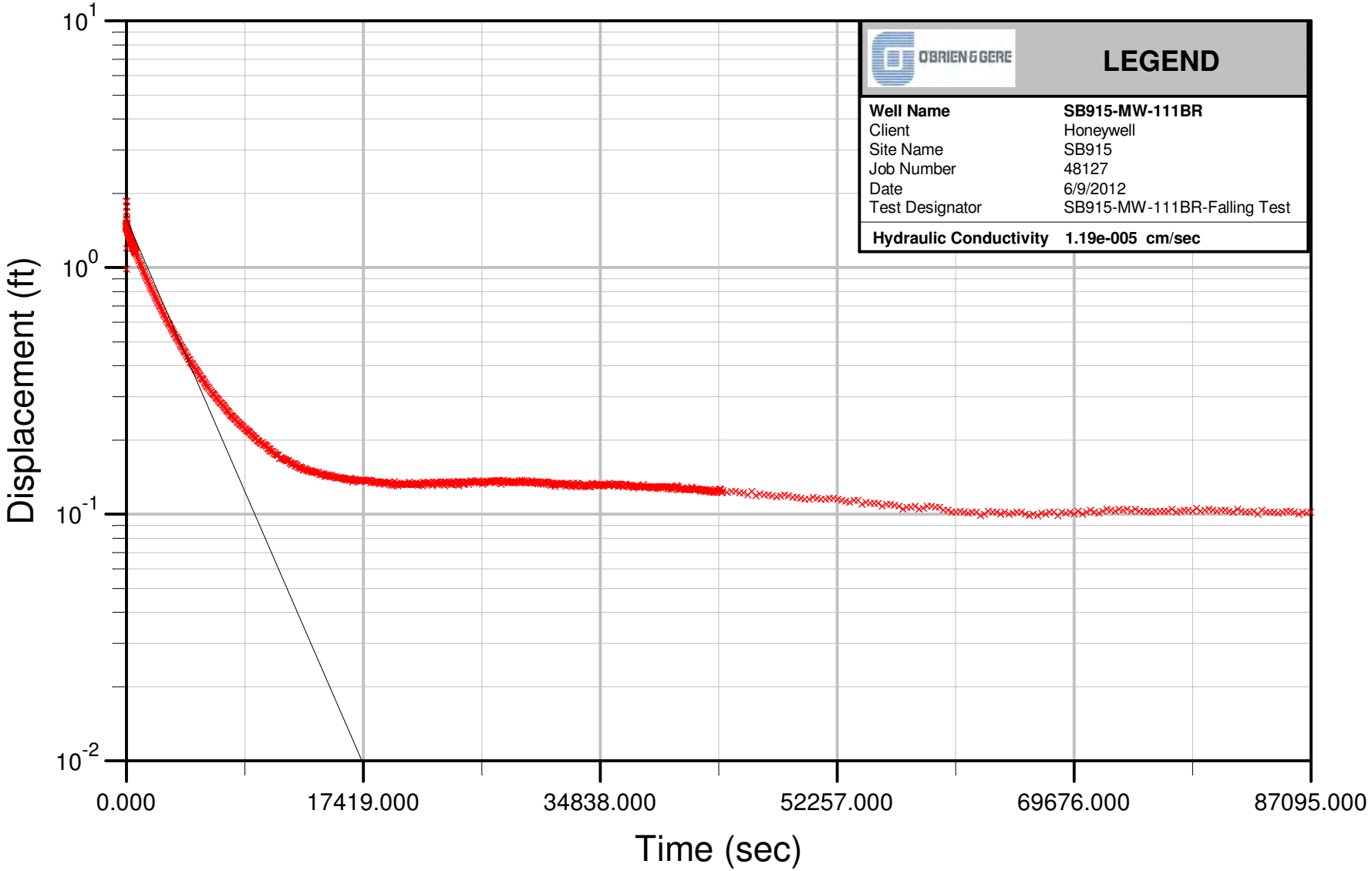
Bouwer & Rice


LEGEND
Well Name SB915-MW-110S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/6/2012
Test Designator SB915-MW-110S-Falling Test
Hydraulic Conductivity 0.000768773 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
60.0
120.0
180.0
240.0
300.0

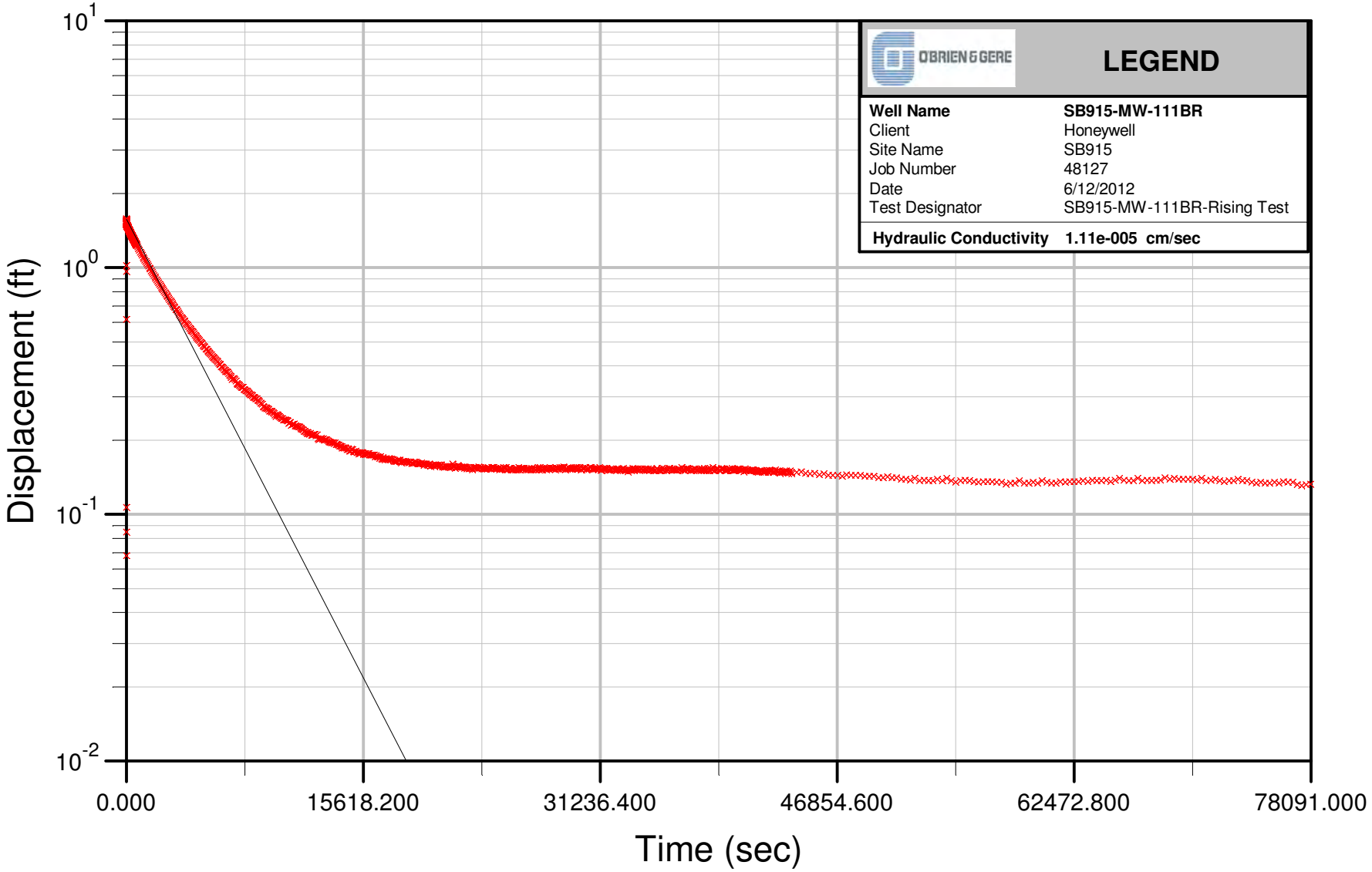
Bouwer & Rice


LEGEND
Well Name SB915-MW-110S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/6/2012
Test Designator SB915-MW-110S-Rising Test
Hydraulic Conductivity 0.000707041 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
80.0
160.0
240.0
320.0
400.0
Time (sec)

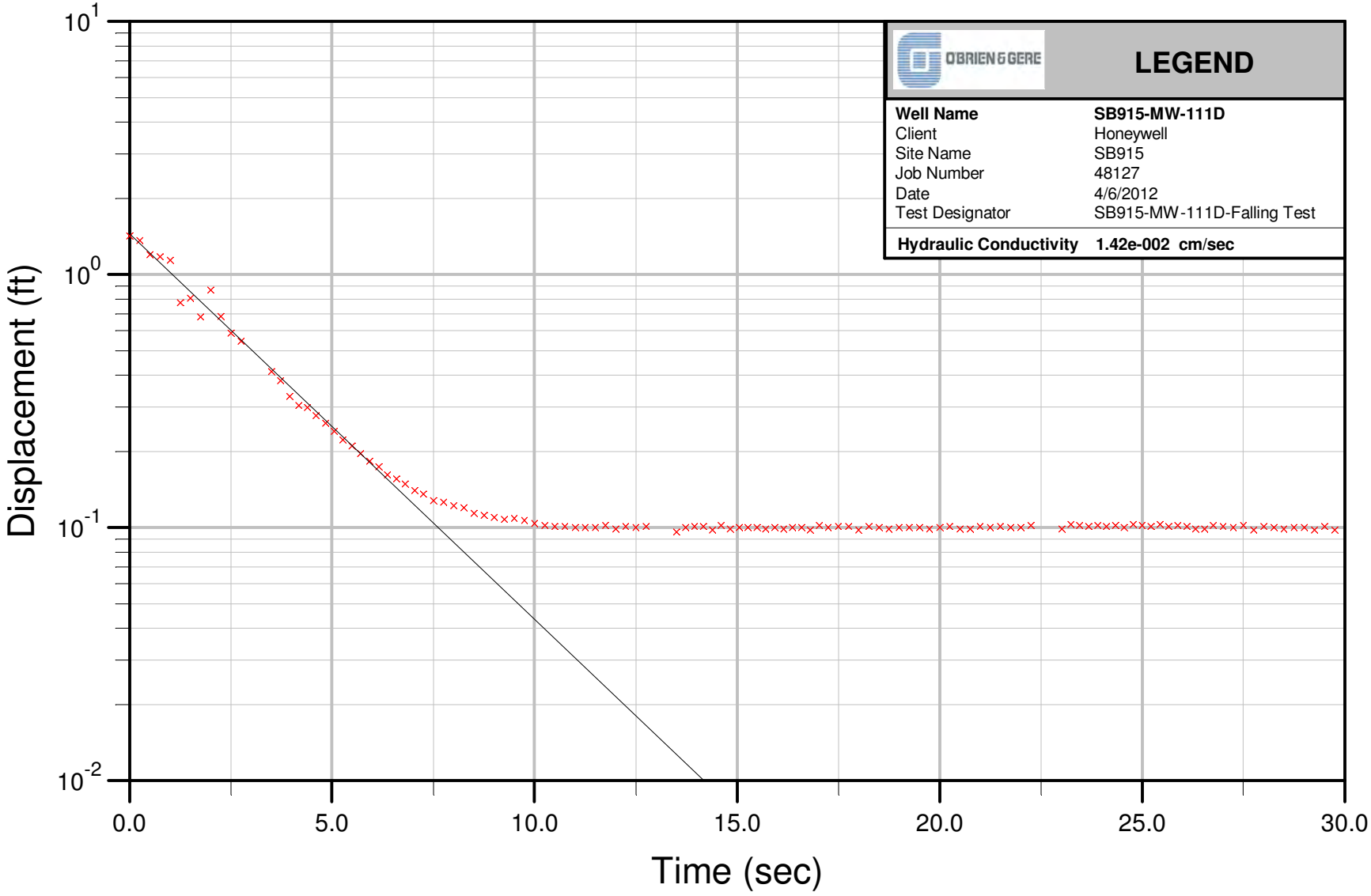
Bouwer & Rice


LEGEND
Well Name SB915-MW-111BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/9/2012
Test Designator SB915-MW-111BR-Falling Test
Hydraulic Conductivity 1.19e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
17419.000
34838.000
52257.000
69676.000
87095.000
Time (sec)

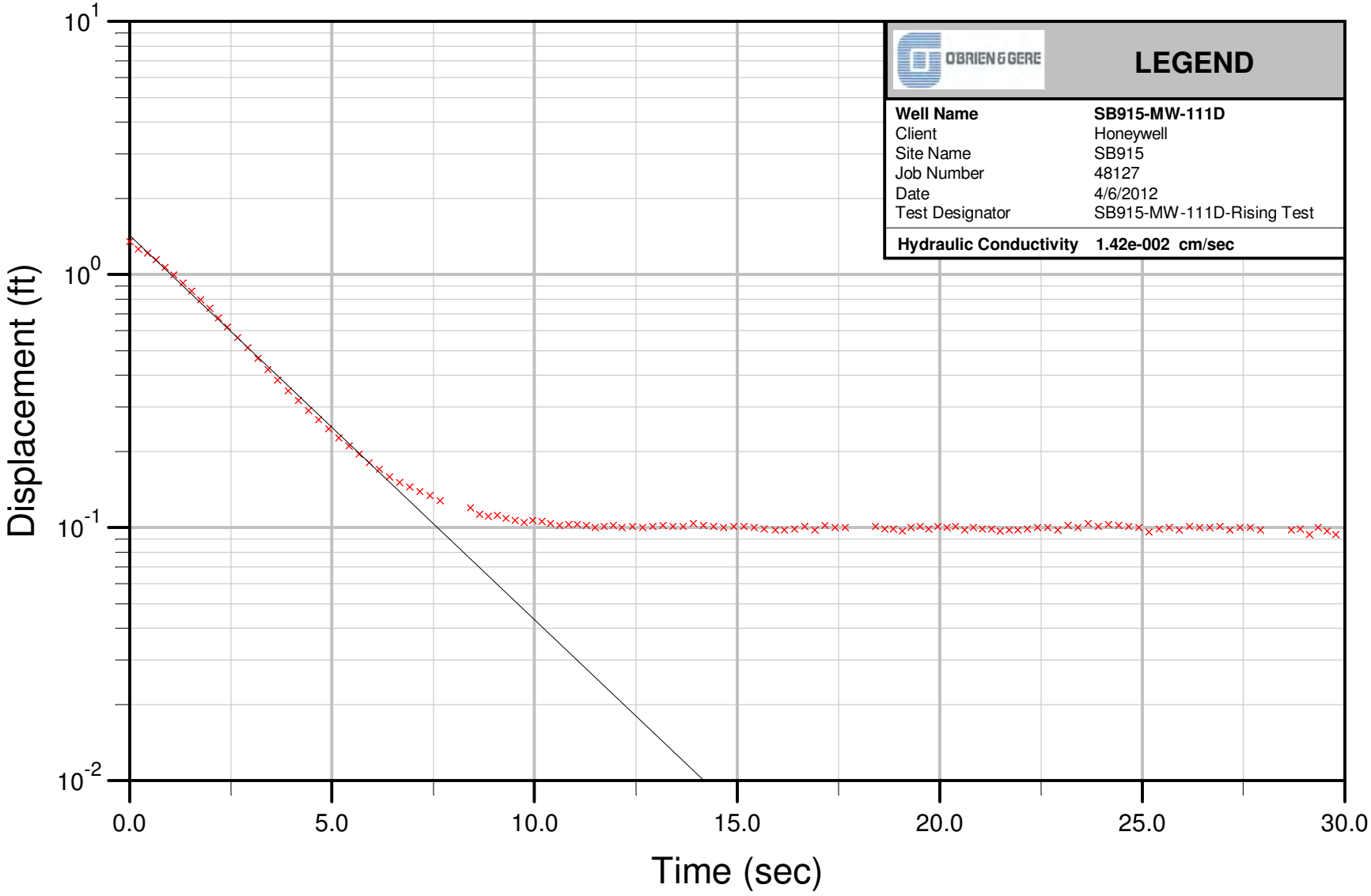
Bouwer & Rice


LEGEND
OBRIEN&GERE
Well Name SB915-MW-111BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/12/2012
Test Designator SB915-MW-111BR-Rising Test
Hydraulic Conductivity 1.11e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
15618.200
31236.400
46854.600
62472.800
78091.000
Time (sec)

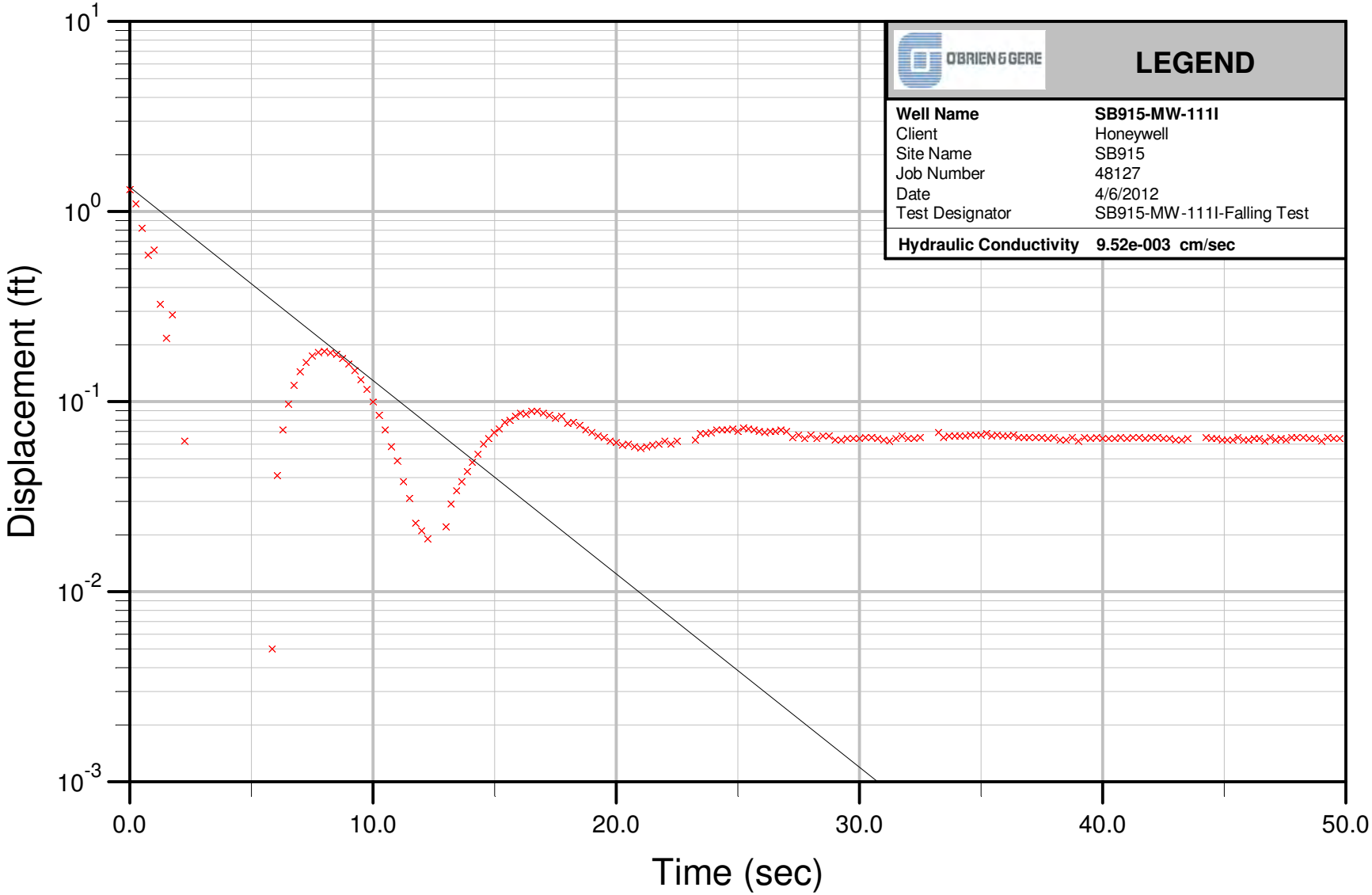
Bouwer & Rice


LEGEND
Well Name SB915-MW-111D
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/6/2012
Test Designator SB915-MW-111D-Falling Test
Hydraulic Conductivity 1.42e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
5.0
10.0
15.0
20.0
25.0
30.0

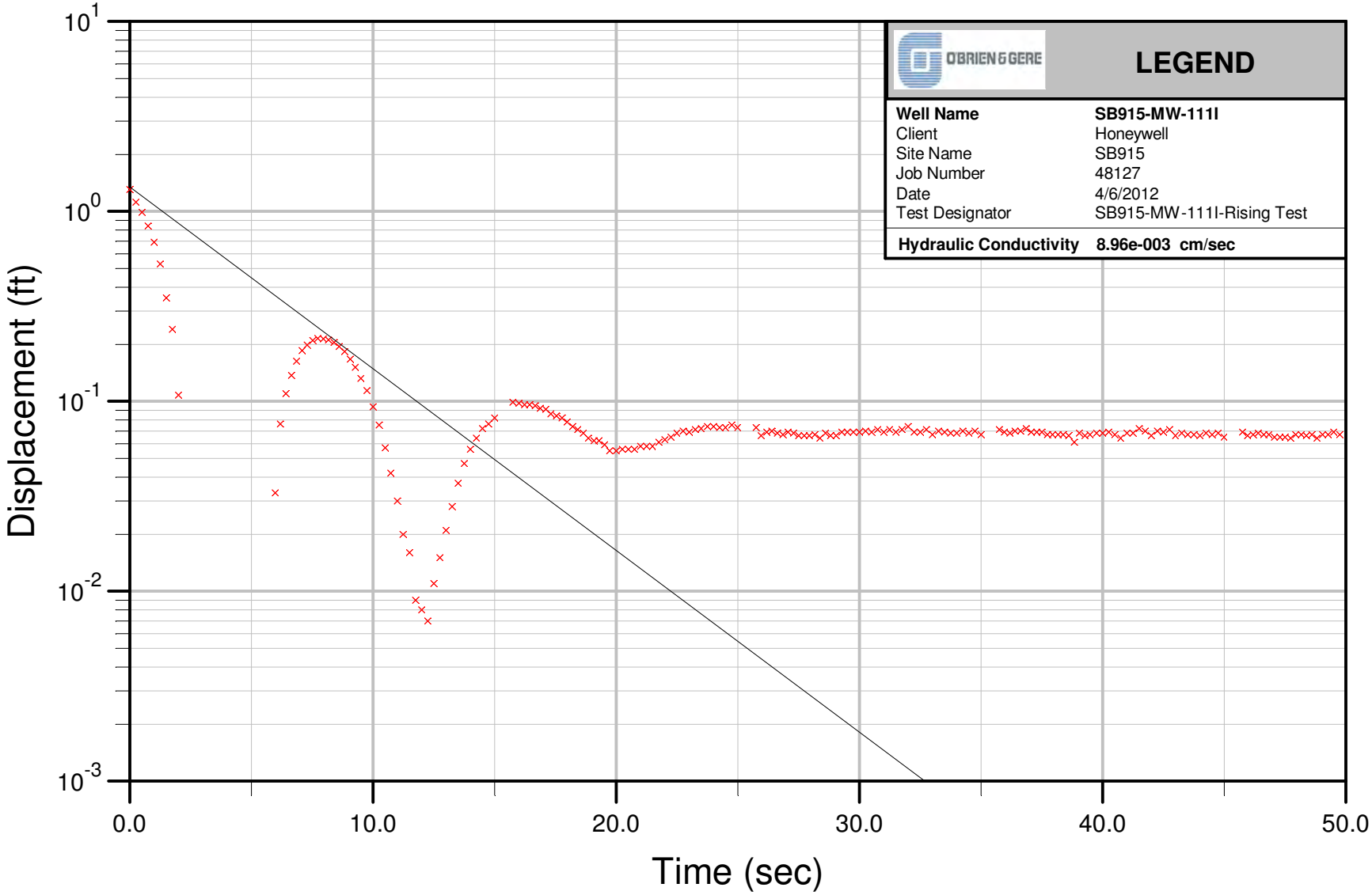
Bouwer & Rice


LEGEND
Well Name SB915-MW-111D
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/6/2012
Test Designator SB915-MW-111D-Rising Test
Hydraulic Conductivity 1.42e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
5.0
10.0
15.0
20.0
25.0
30.0

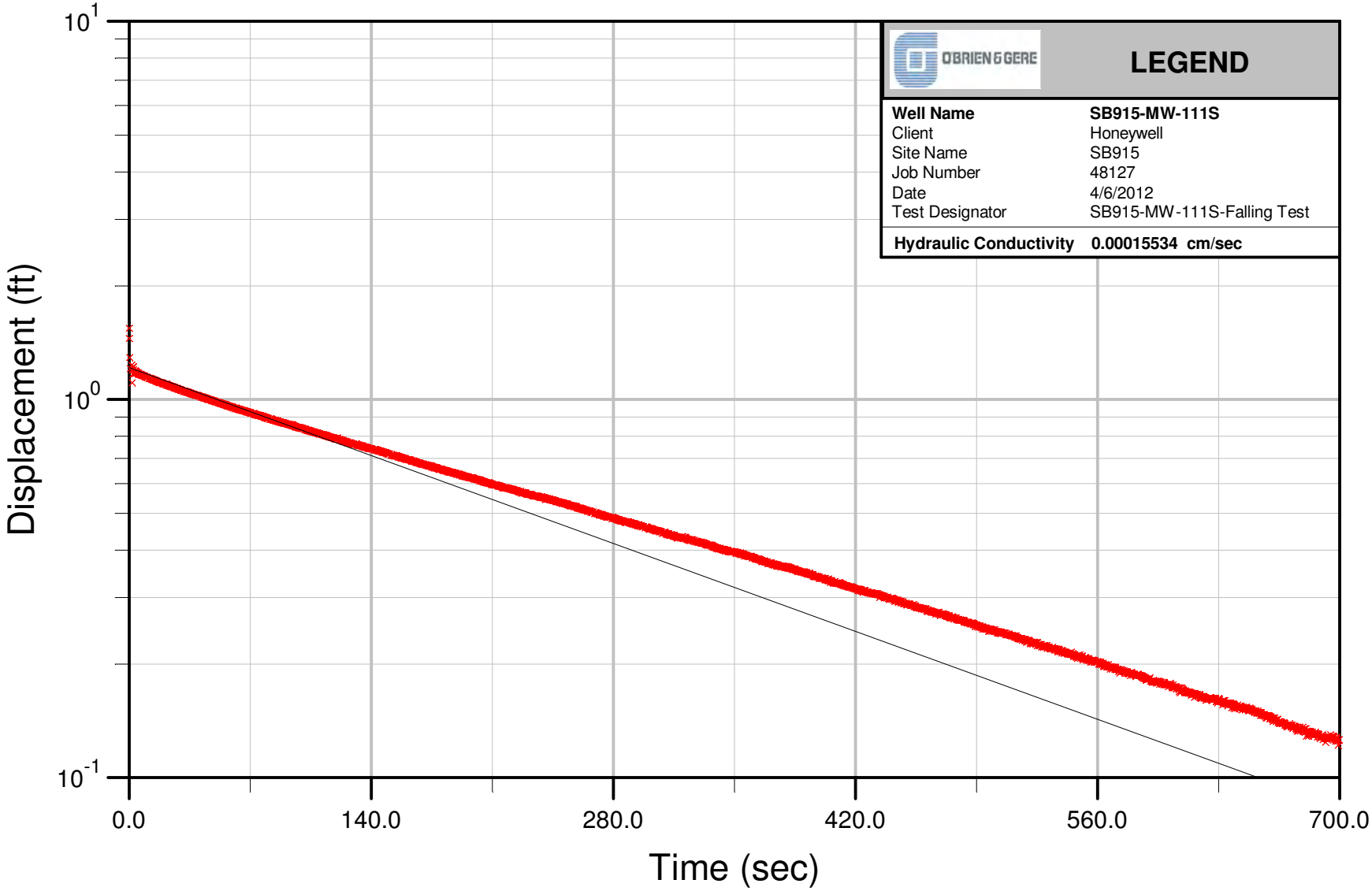
Bouwer & Rice


LEGEND
Well Name SB915-MW-111I
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/6/2012
Test Designator SB915-MW-111I-Falling Test
Hydraulic Conductivity 9.52e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
10.0
20.0
30.0
40.0
50.0

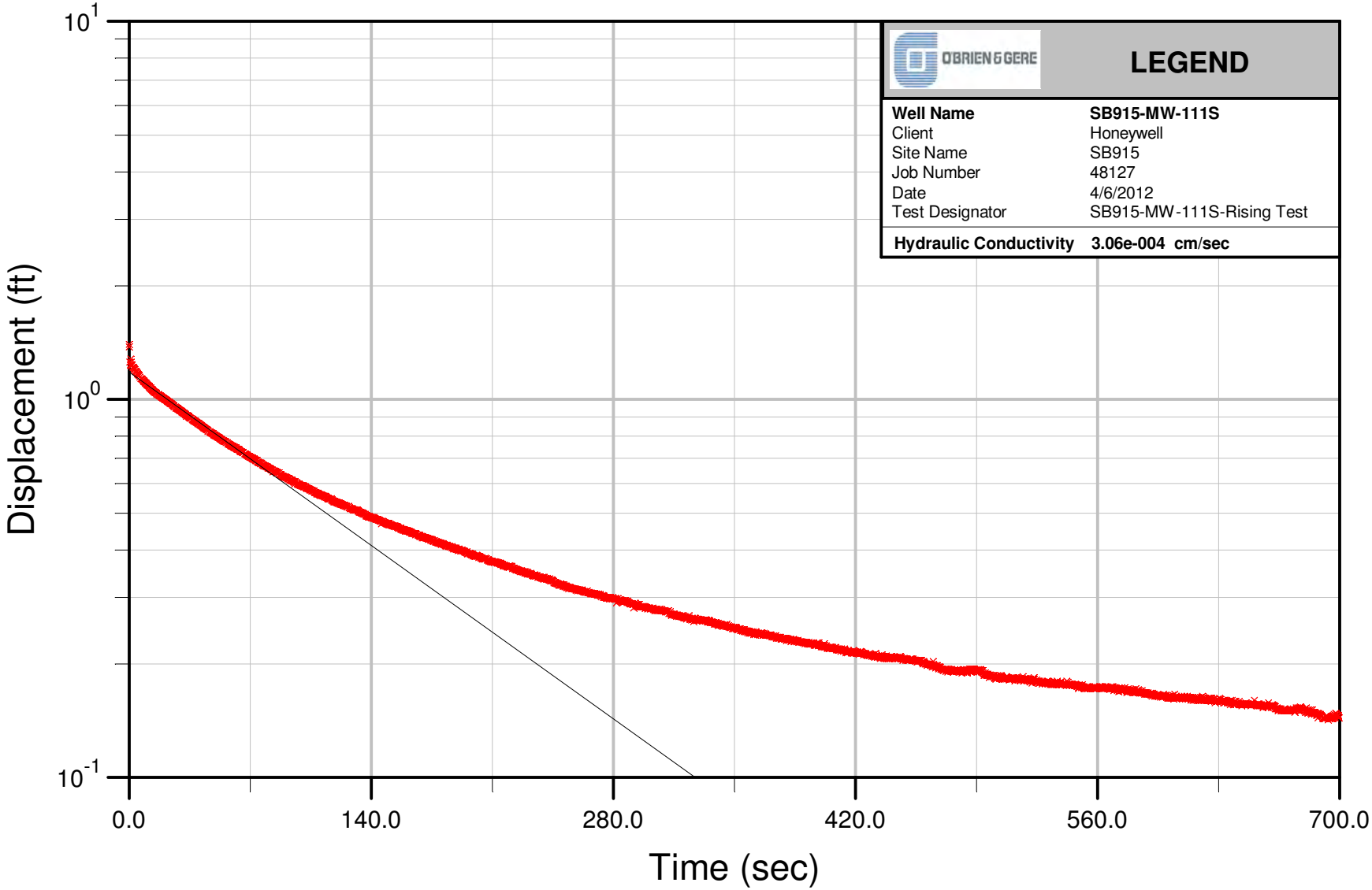
Bouwer & Rice


LEGEND
Well Name SB915-MW-111I
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/6/2012
Test Designator SB915-MW-111I-Rising Test
Hydraulic Conductivity 8.96e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
10.0
20.0
30.0
40.0
50.0

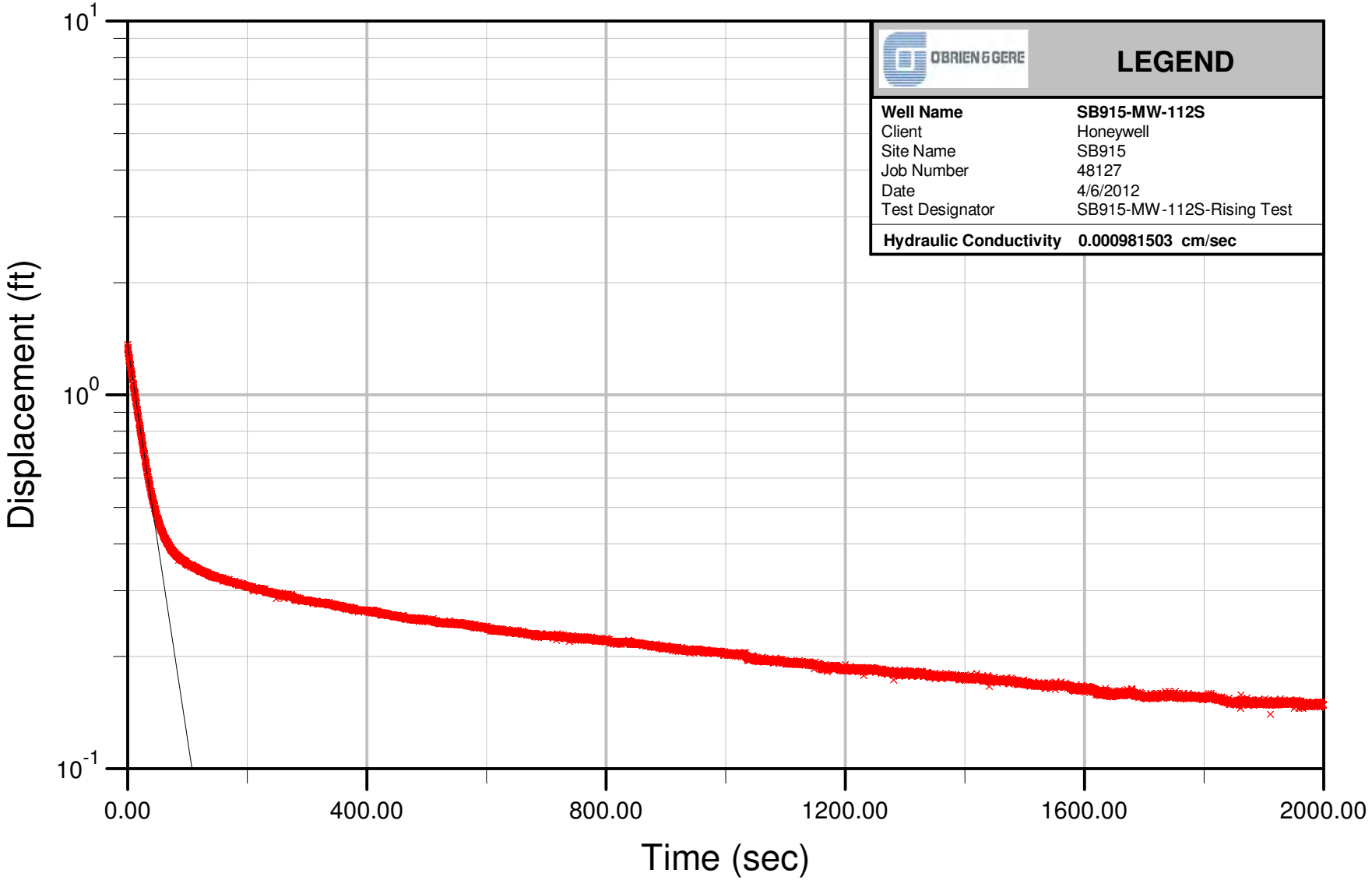
Bouwer & Rice


LEGEND
Well Name SB915-MW-111S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/6/2012
Test Designator SB915-MW-111S-Falling Test
Hydraulic Conductivity 0.00015534 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.0
140.0
280.0
420.0
560.0
700.0
Time (sec)

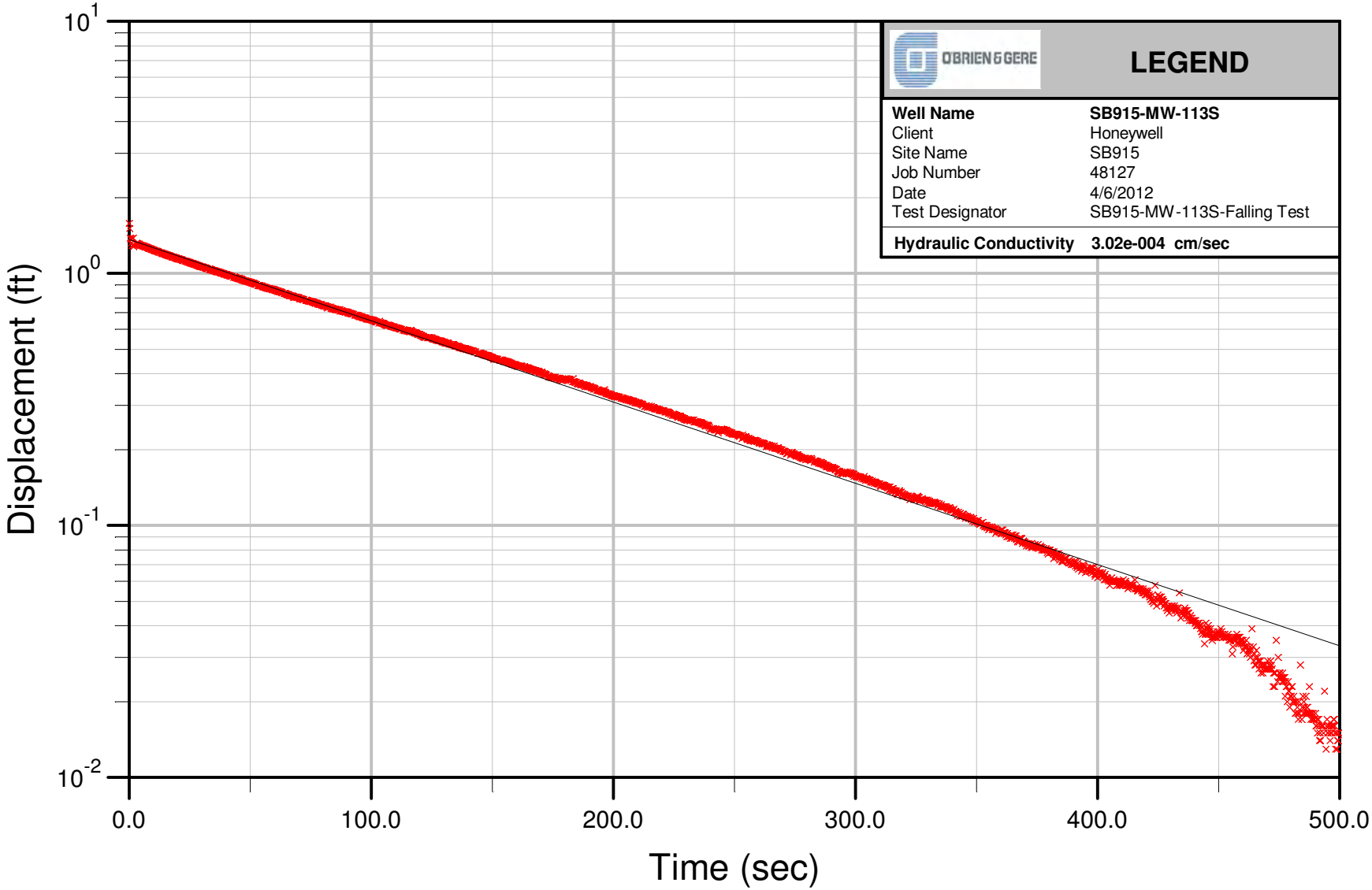
Bouwer & Rice


LEGEND
Well Name SB915-MW-111S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/6/2012
Test Designator SB915-MW-111S-Rising Test
Hydraulic Conductivity 3.06e-004 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.0
140.0
280.0
420.0
560.0
700.0
Time (sec)

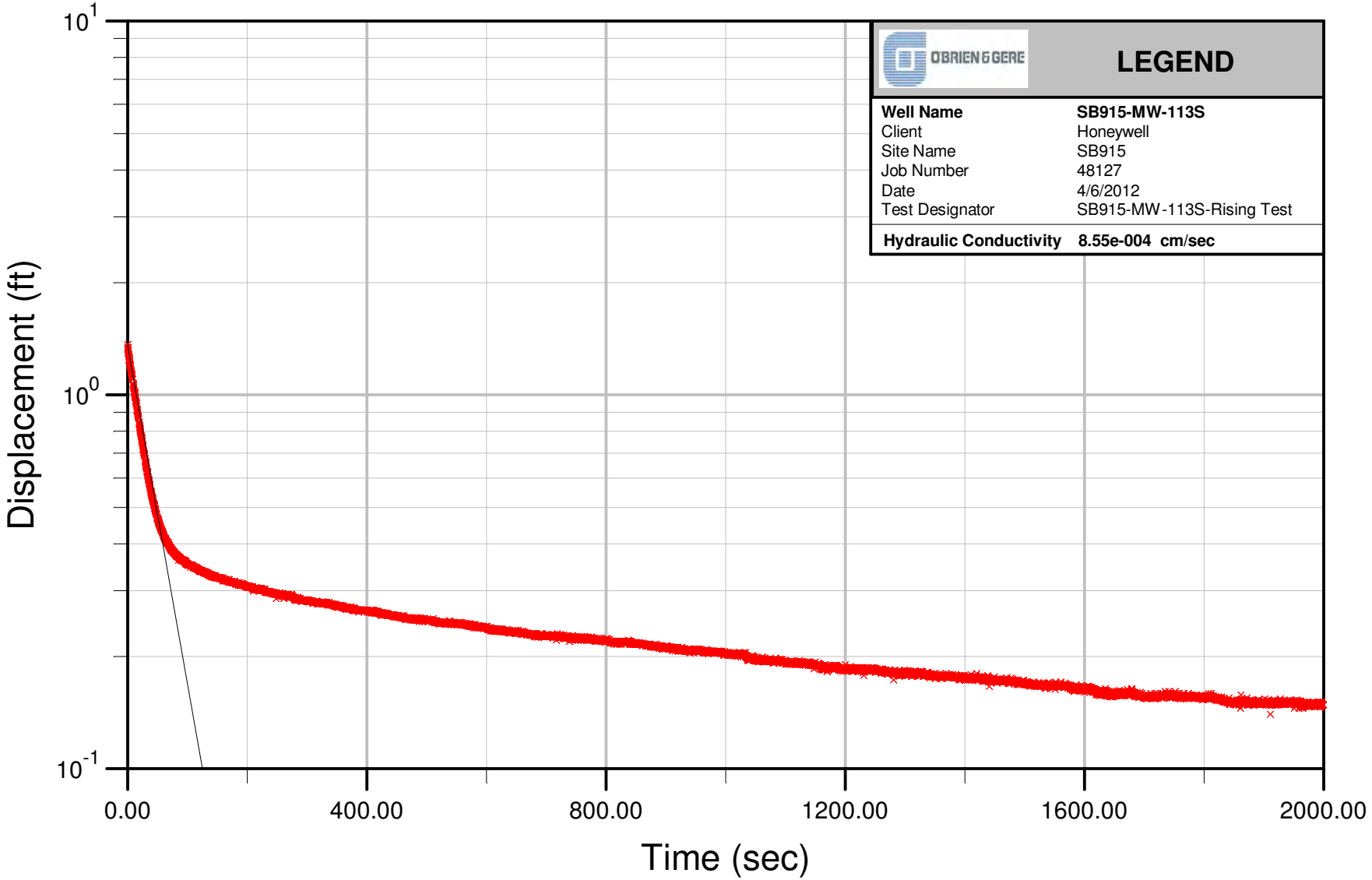
Bouwer & Rice


LEGEND
Well Name SB915-MW-112S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/6/2012
Test Designator SB915-MW-112S-Rising Test
Hydraulic Conductivity 0.000981503 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.00
400.00
800.00
1200.00
1600.00
2000.00
Time (sec)

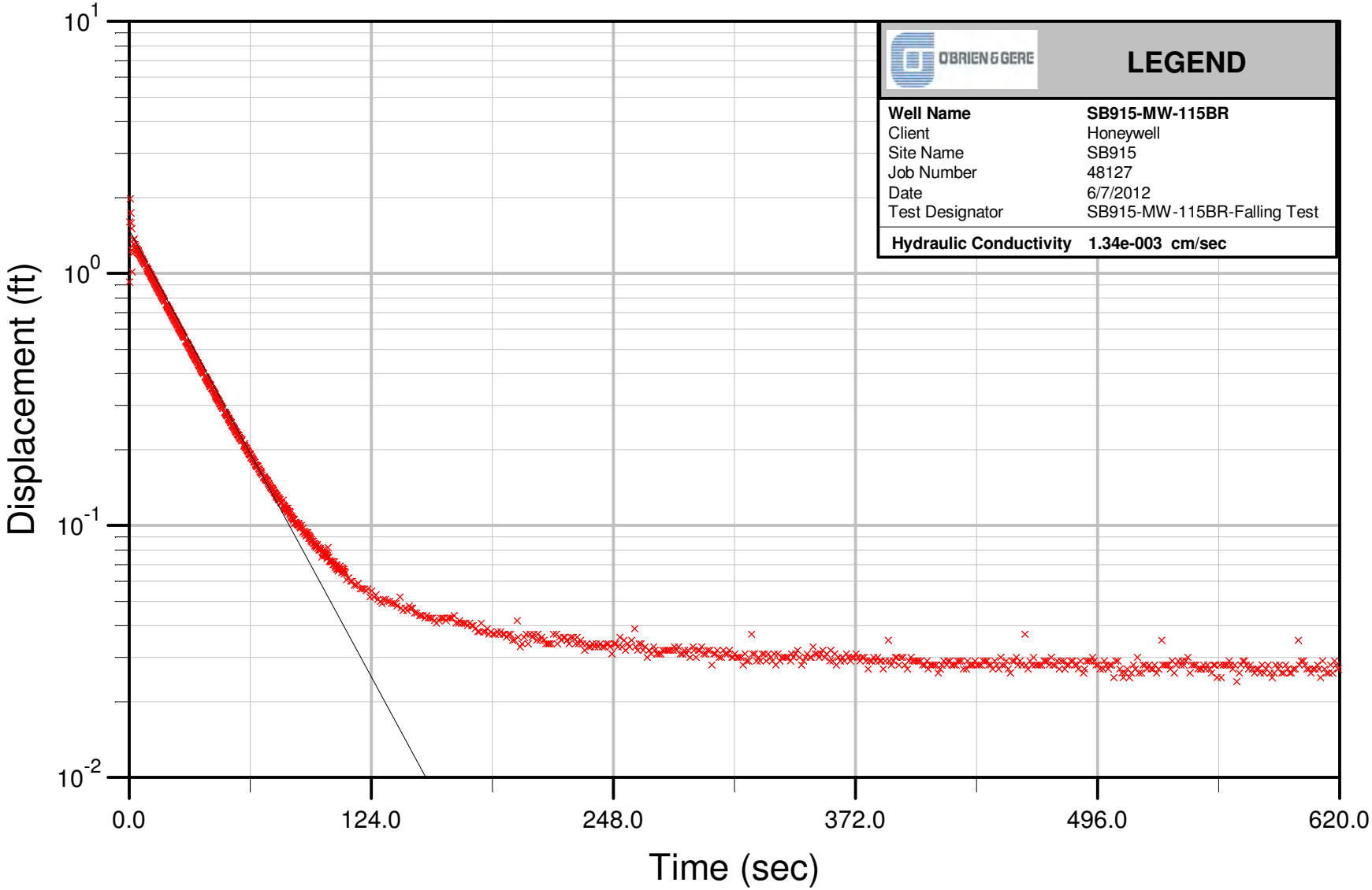
Bouwer & Rice


LEGEND
Well Name SB915-MW-113S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/6/2012
Test Designator SB915-MW-113S-Falling Test
Hydraulic Conductivity 3.02e-004 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
100.0
200.0
300.0
400.0
500.0

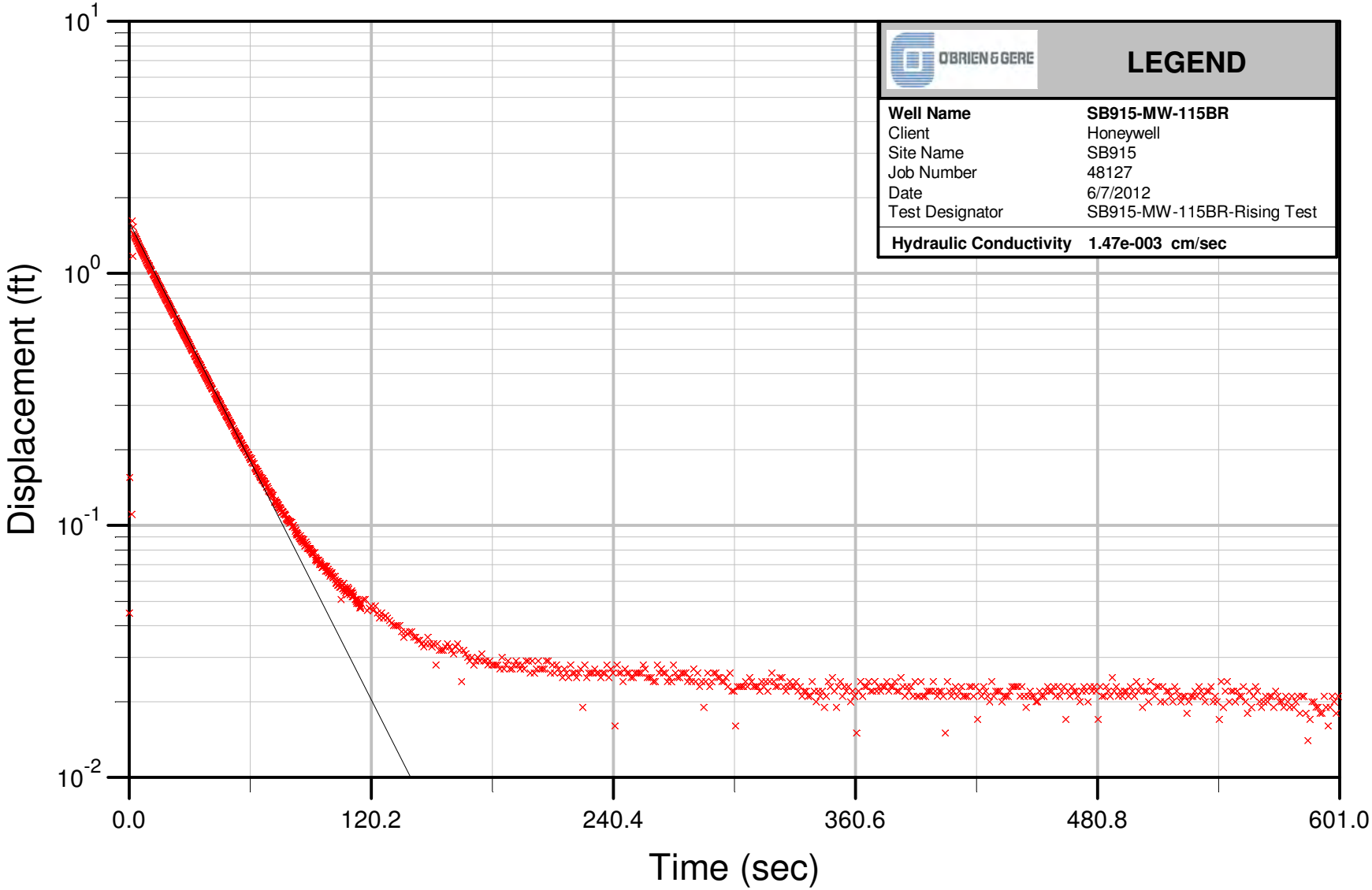
Bouwer & Rice


LEGEND
Well Name SB915-MW-113S
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/6/2012
Test Designator SB915-MW-113S-Rising Test
Hydraulic Conductivity 8.55e-004 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
400.00
800.00
1200.00
1600.00
2000.00

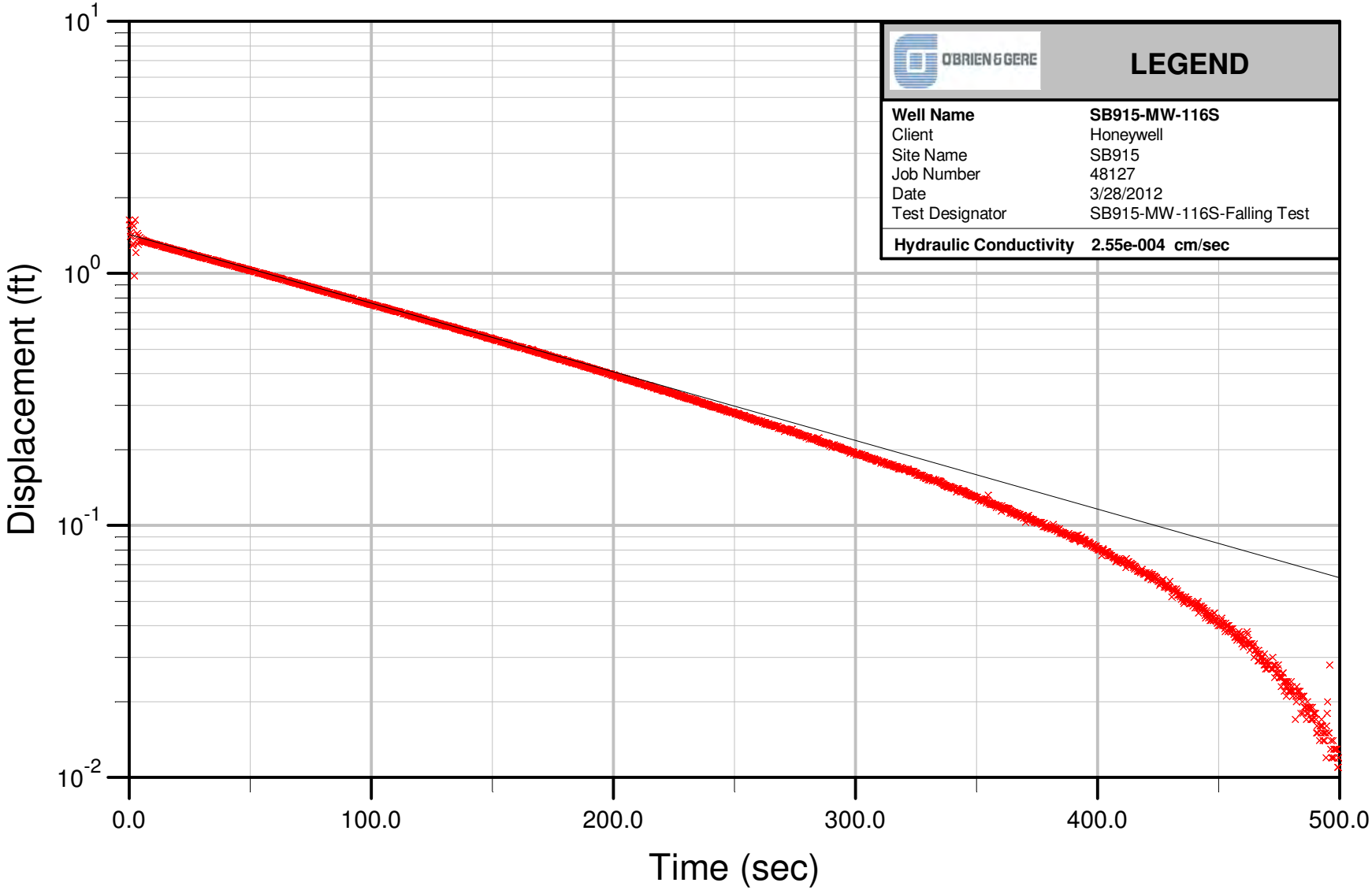
Bouwer & Rice


LEGEND
Well Name SB915-MW-115BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/7/2012
Test Designator SB915-MW-115BR-Falling Test
Hydraulic Conductivity 1.34e-003 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
124.0
248.0
372.0
496.0
620.0
Time (sec)

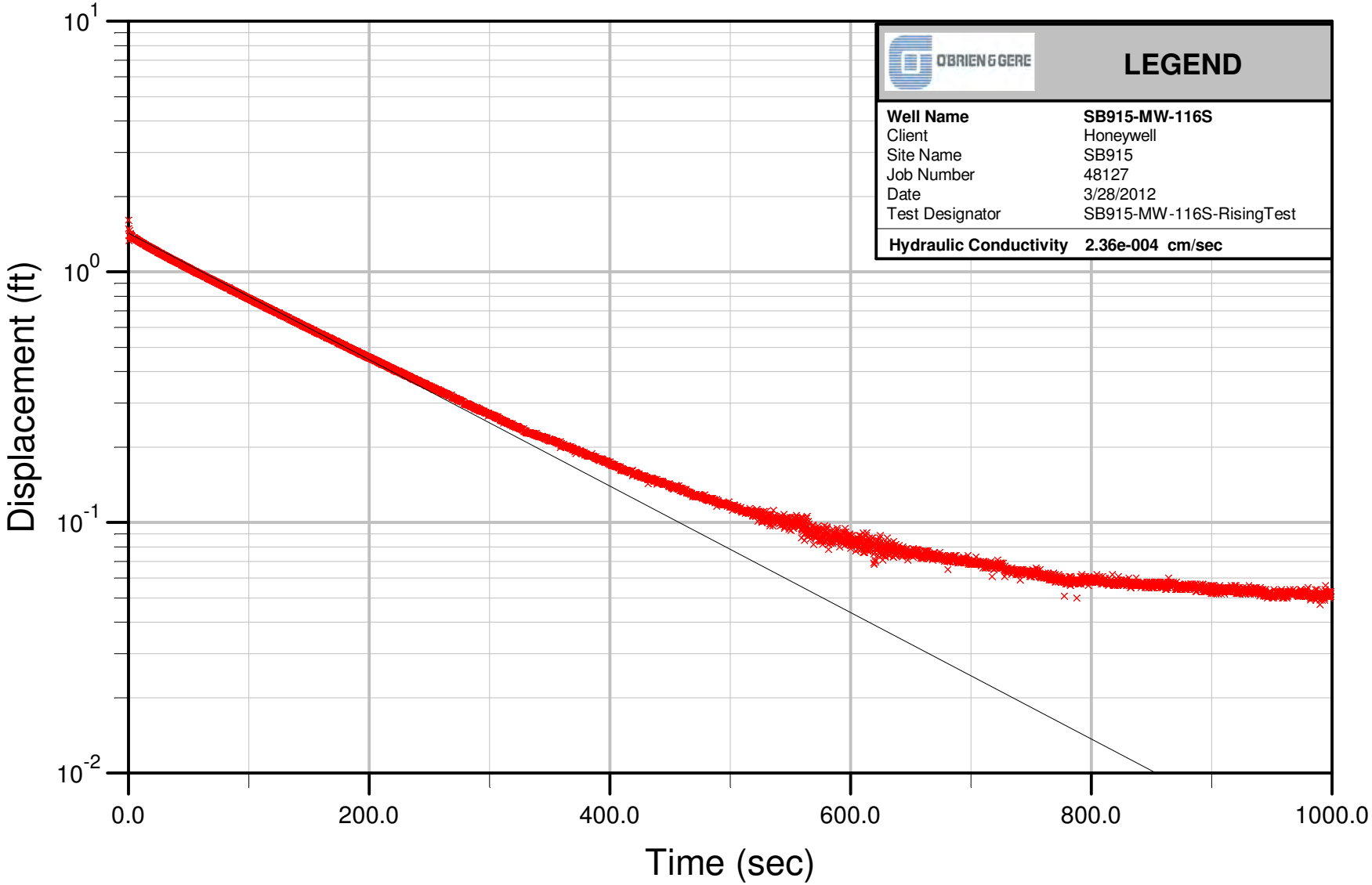
Bouwer & Rice


LEGEND
Well Name SB915-MW-115BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/7/2012
Test Designator SB915-MW-115BR-Rising Test
Hydraulic Conductivity 1.47e-003 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
120.2
240.4
360.6
480.8
601.0

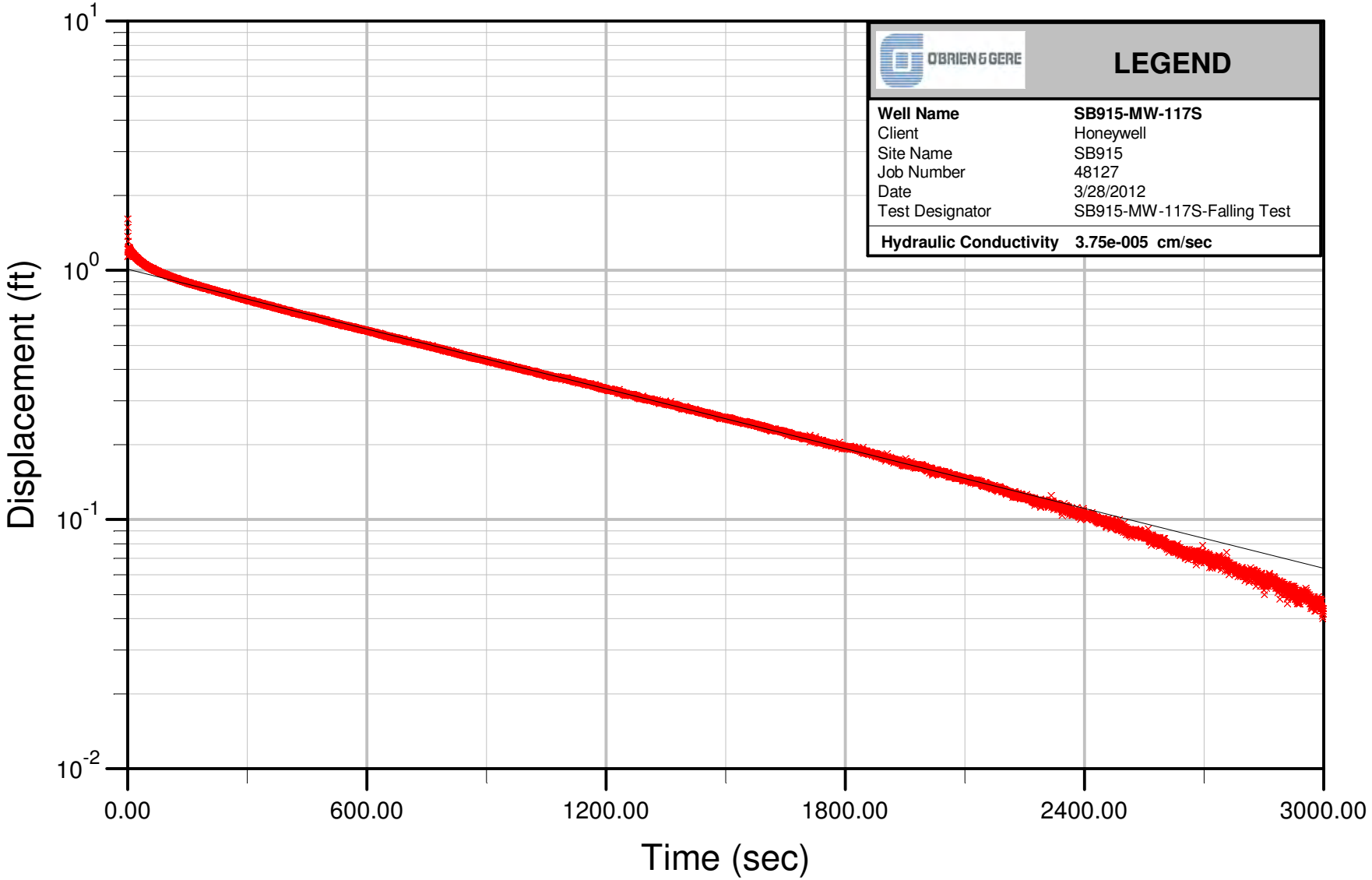
Bouwer & Rice


LEGEND
Well Name SB915-MW-116S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/28/2012
Test Designator SB915-MW-116S-Falling Test
Hydraulic Conductivity 2.55e-004 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
100.0
200.0
300.0
400.0
500.0

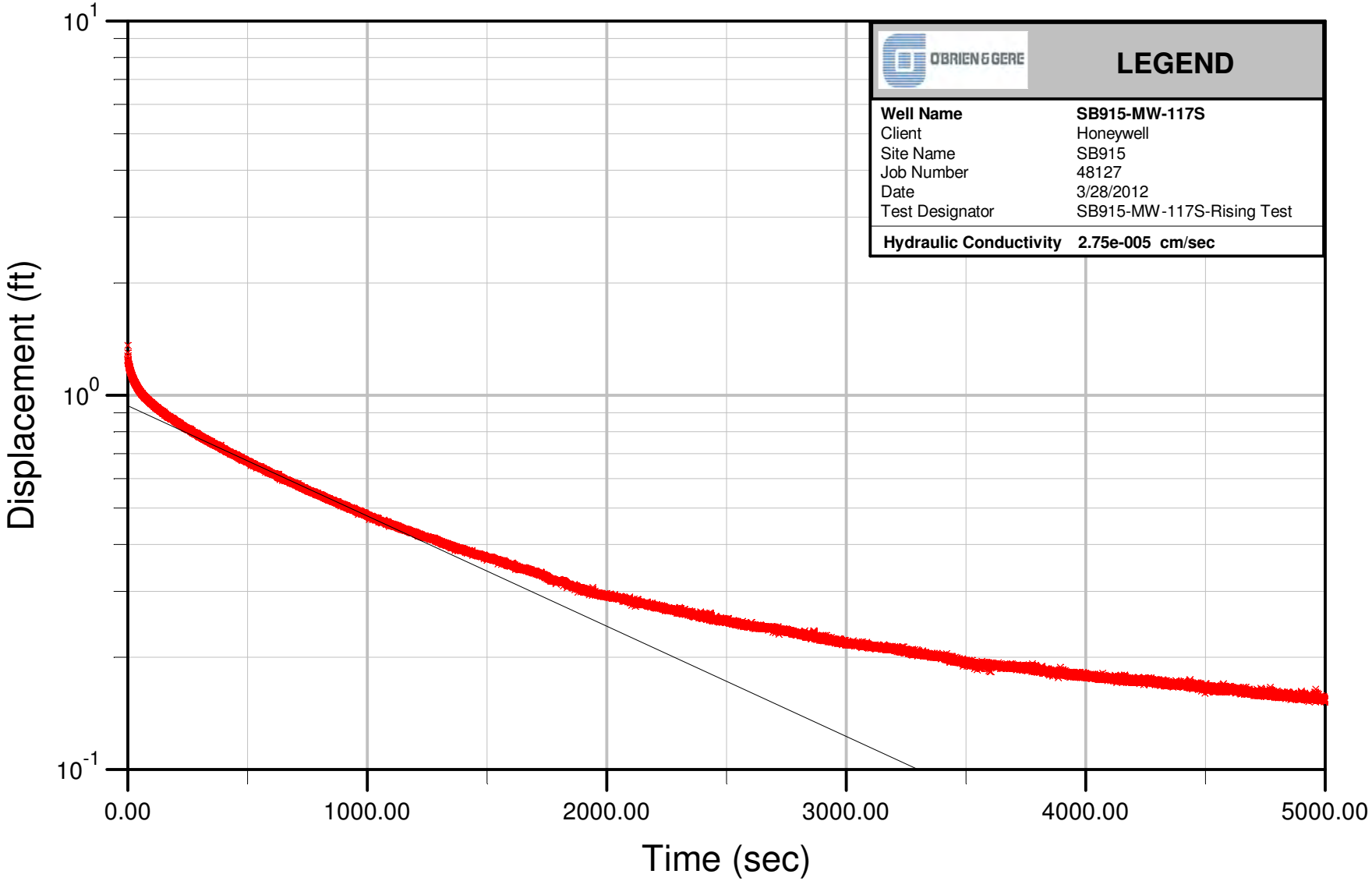
Bouwer & Rice


LEGEND
Well Name SB915-MW-116S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/28/2012
Test Designator SB915-MW-116S-RisingTest
Hydraulic Conductivity 2.36e-004 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
200.0
400.0
600.0
800.0
1000.0

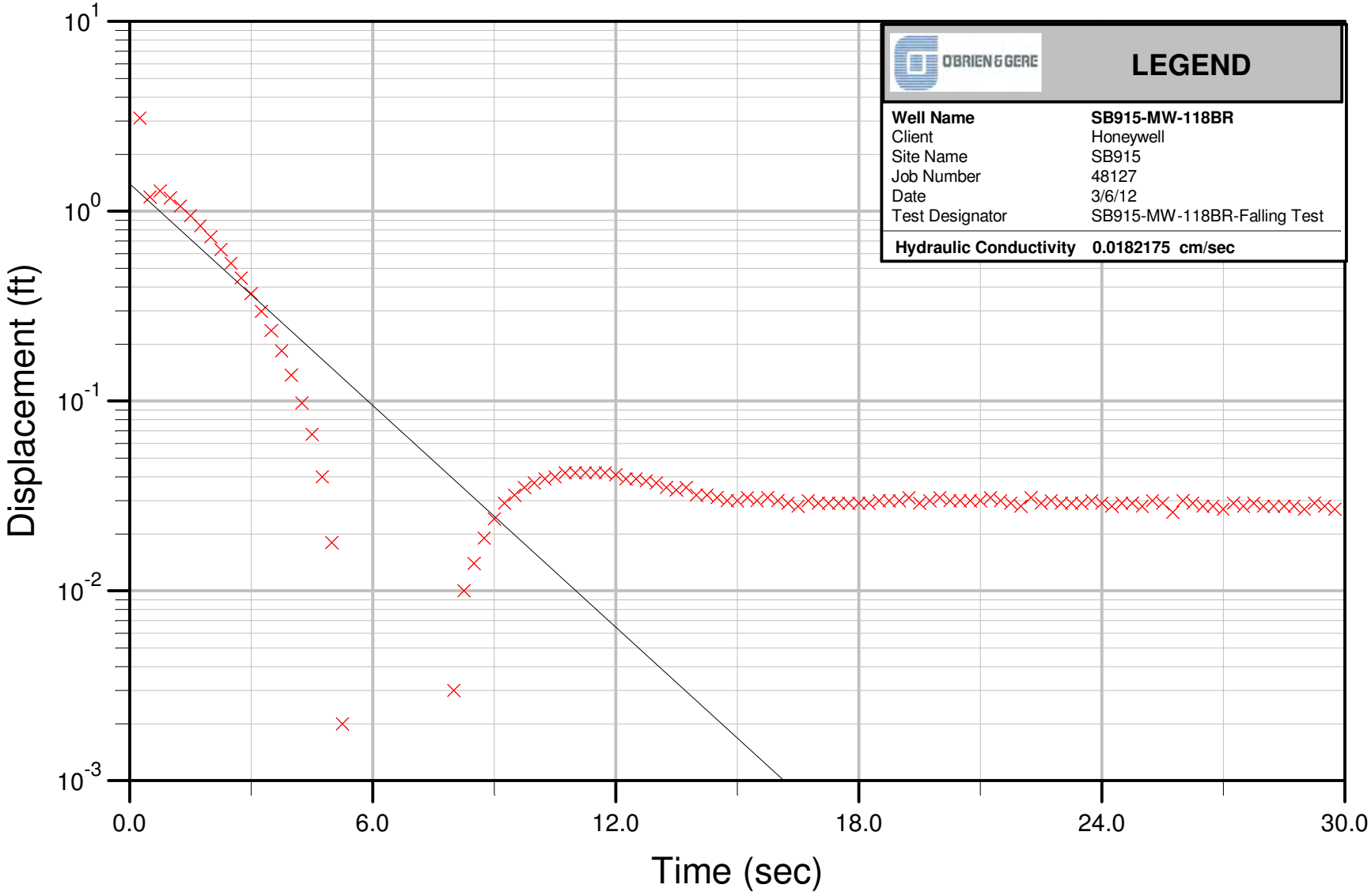
Bouwer & Rice


LEGEND
Well Name SB915-MW-117S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/28/2012
Test Designator SB915-MW-117S-Falling Test
Hydraulic Conductivity 3.75e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
600.00
1200.00
1800.00
2400.00
3000.00
Time (sec)

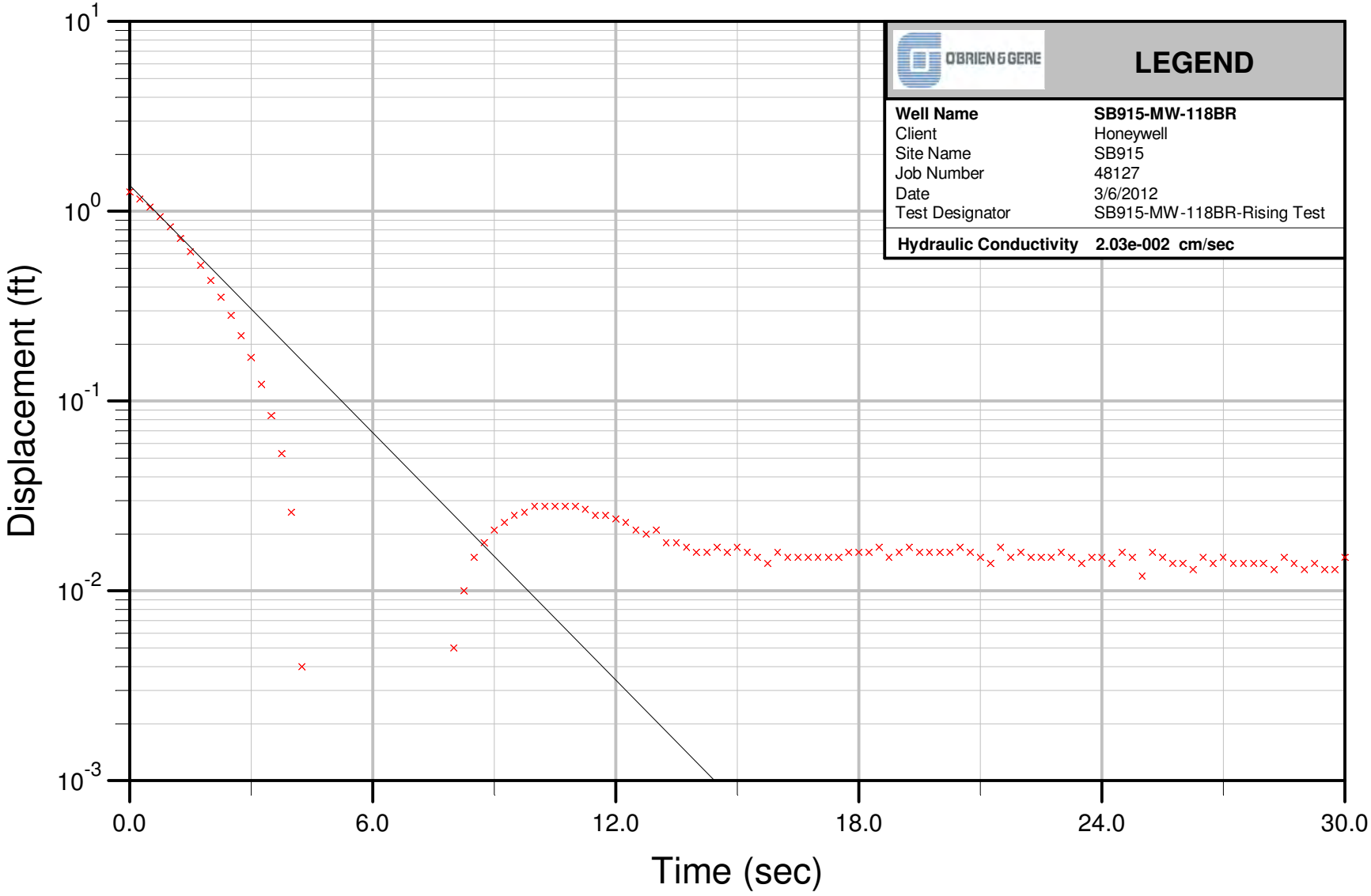
Bouwer & Rice


LEGEND
Well Name SB915-MW-117S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/28/2012
Test Designator SB915-MW-117S-Rising Test
Hydraulic Conductivity 2.75e-005 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
1000.00
2000.00
3000.00
4000.00
5000.00

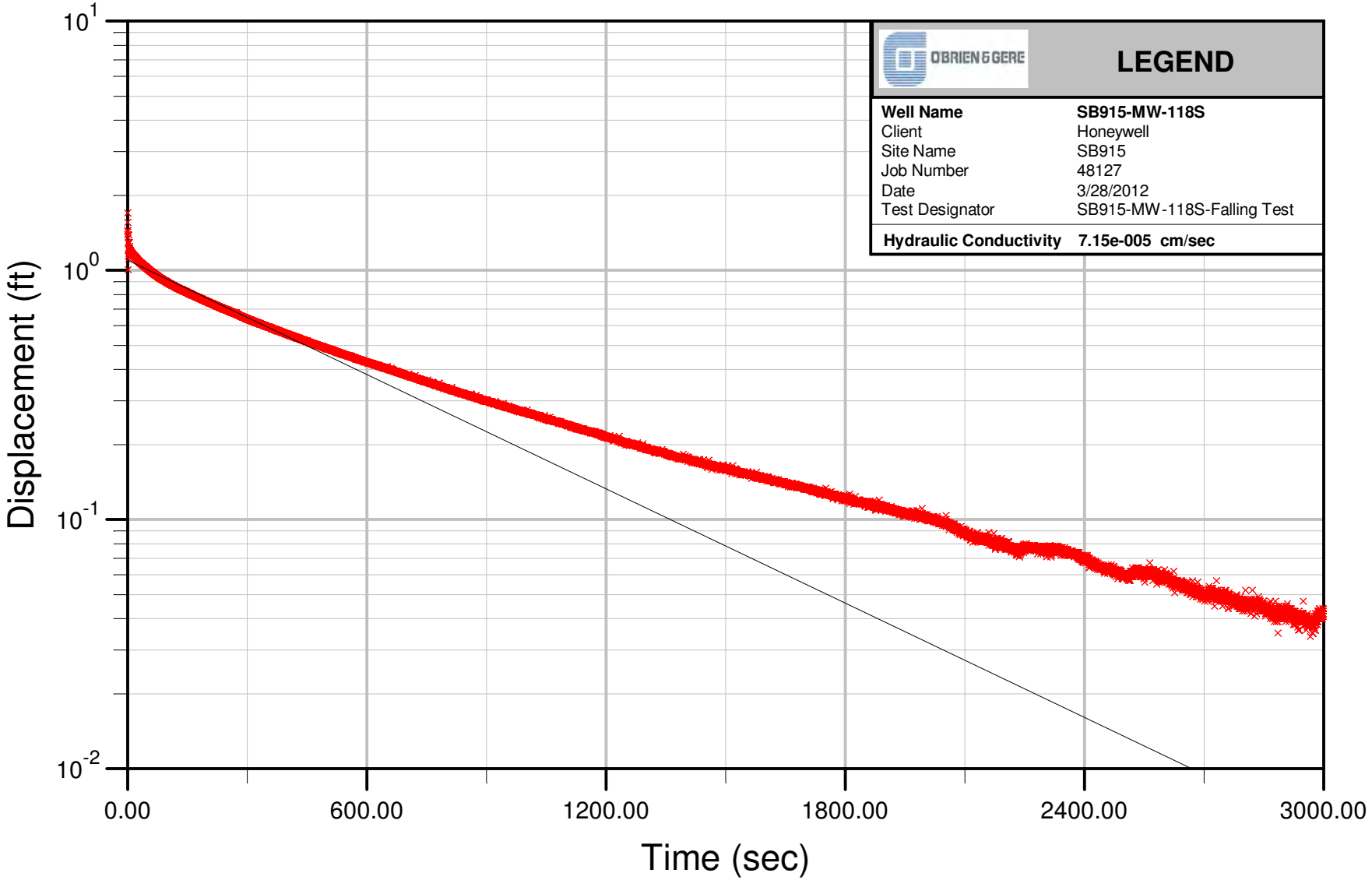
Bouwer & Rice


LEGEND
Well Name SB915-MW-118BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/6/12
Test Designator SB915-MW-118BR-Falling Test
Hydraulic Conductivity 0.0182175 cm/sec
Displacement (ft)
Time (sec)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
6.0
12.0
18.0
24.0
30.0

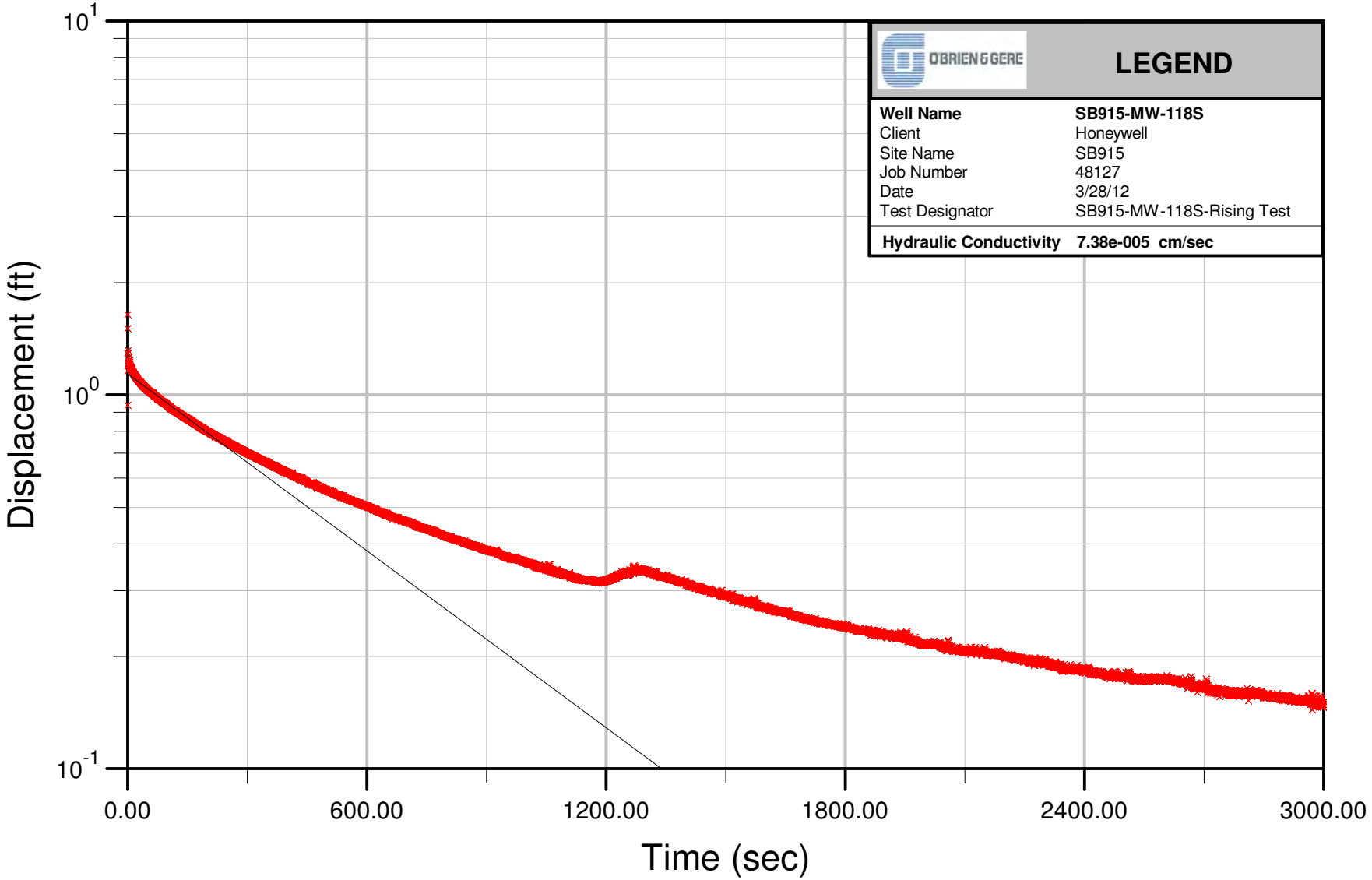
Bouwer & Rice


LEGEND
Well Name SB915-MW-118BR
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/6/2012
Test Designator SB915-MW-118BR-Rising Test
Hydraulic Conductivity 2.03e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
6.0
12.0
18.0
24.0
30.0

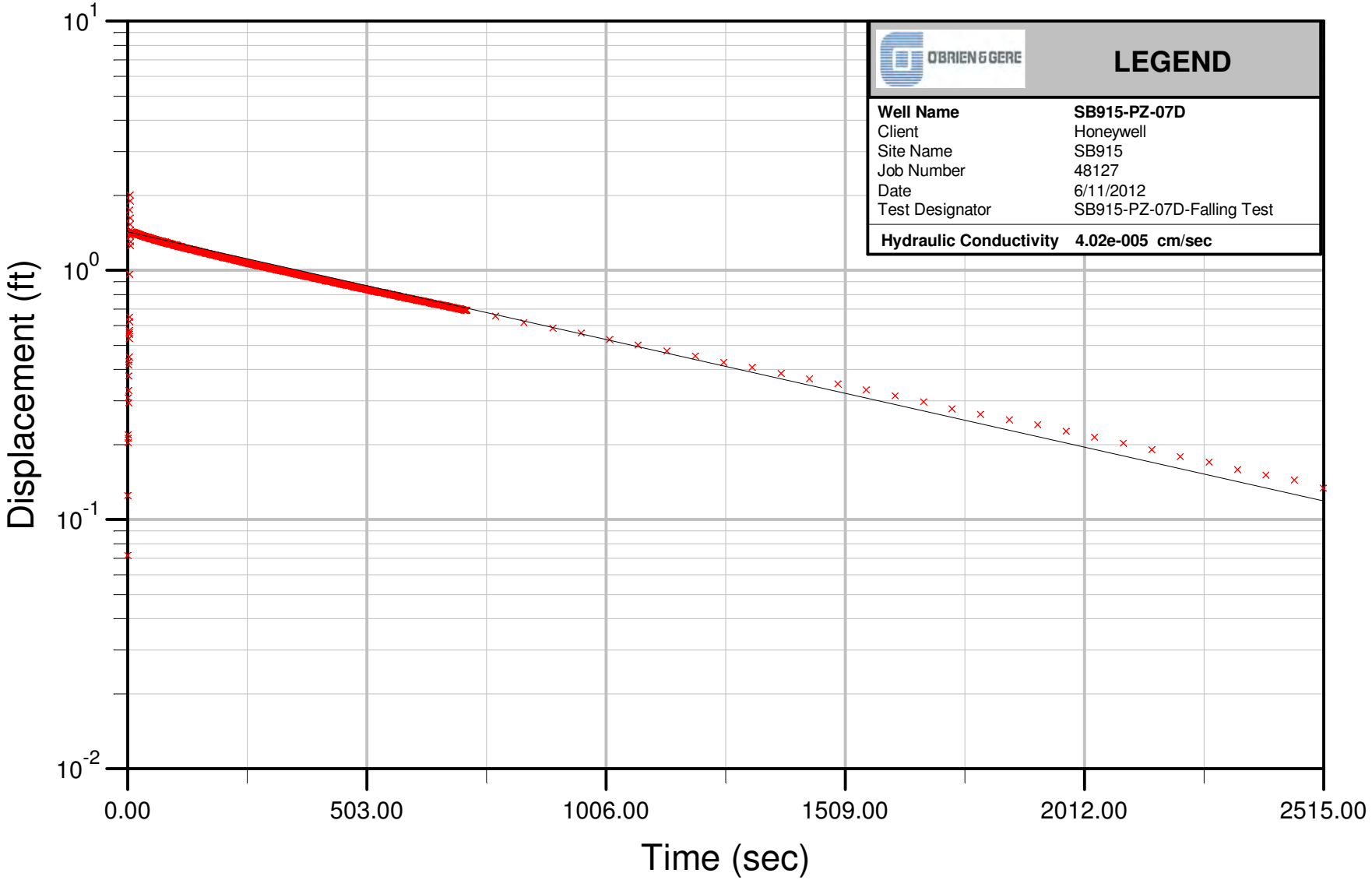
Bouwer & Rice


LEGEND
Well Name SB915-MW-118S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/28/2012
Test Designator SB915-MW-118S-Falling Test
Hydraulic Conductivity 7.15e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
600.00
1200.00
1800.00
2400.00
3000.00
Time (sec)

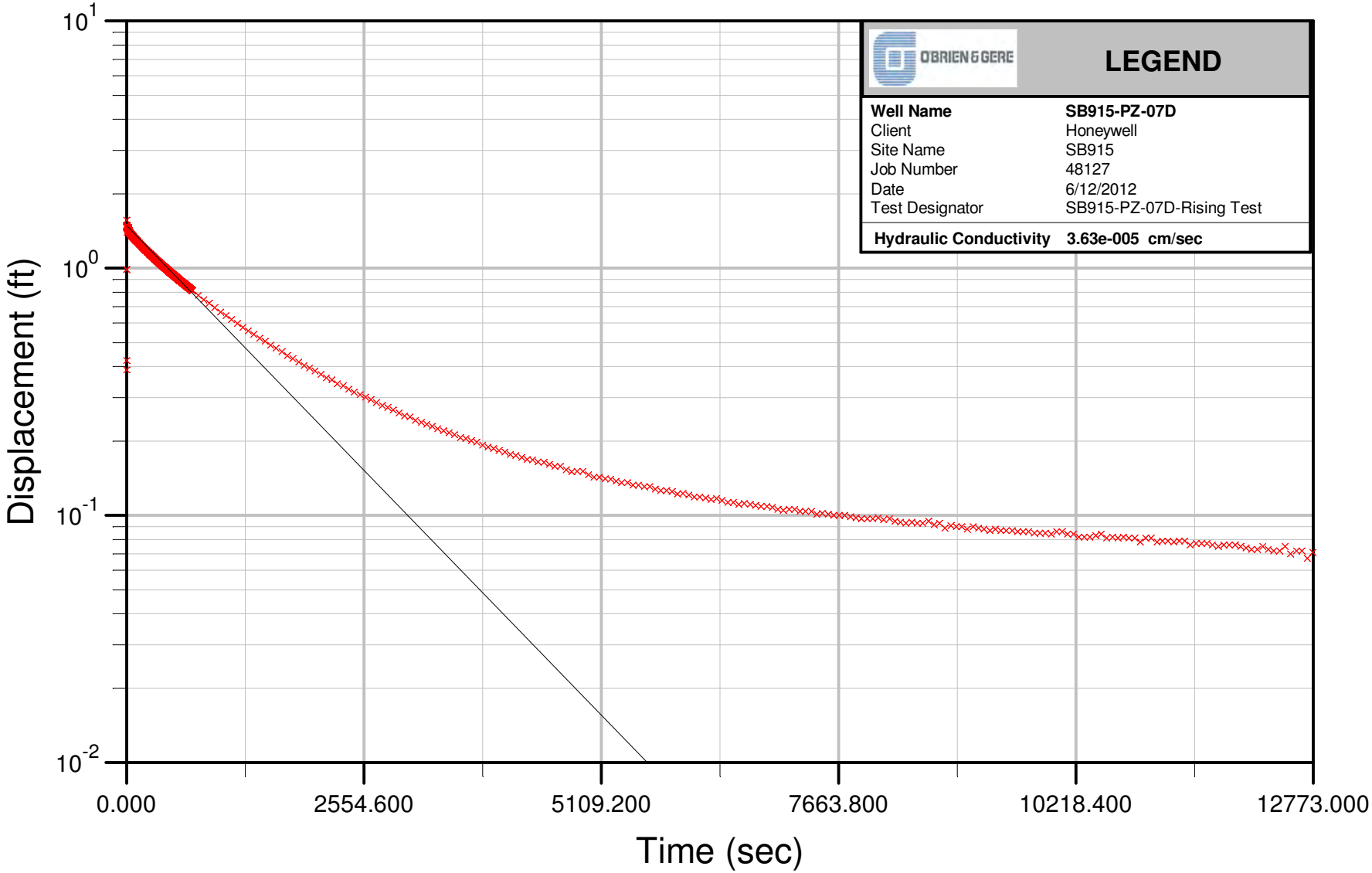
Bouwer & Rice


LEGEND
Well Name SB915-MW-118S
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/28/12
Test Designator SB915-MW-118S-Rising Test
Hydraulic Conductivity 7.38e-005 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.00
600.00
1200.00
1800.00
2400.00
3000.00
Time (sec)

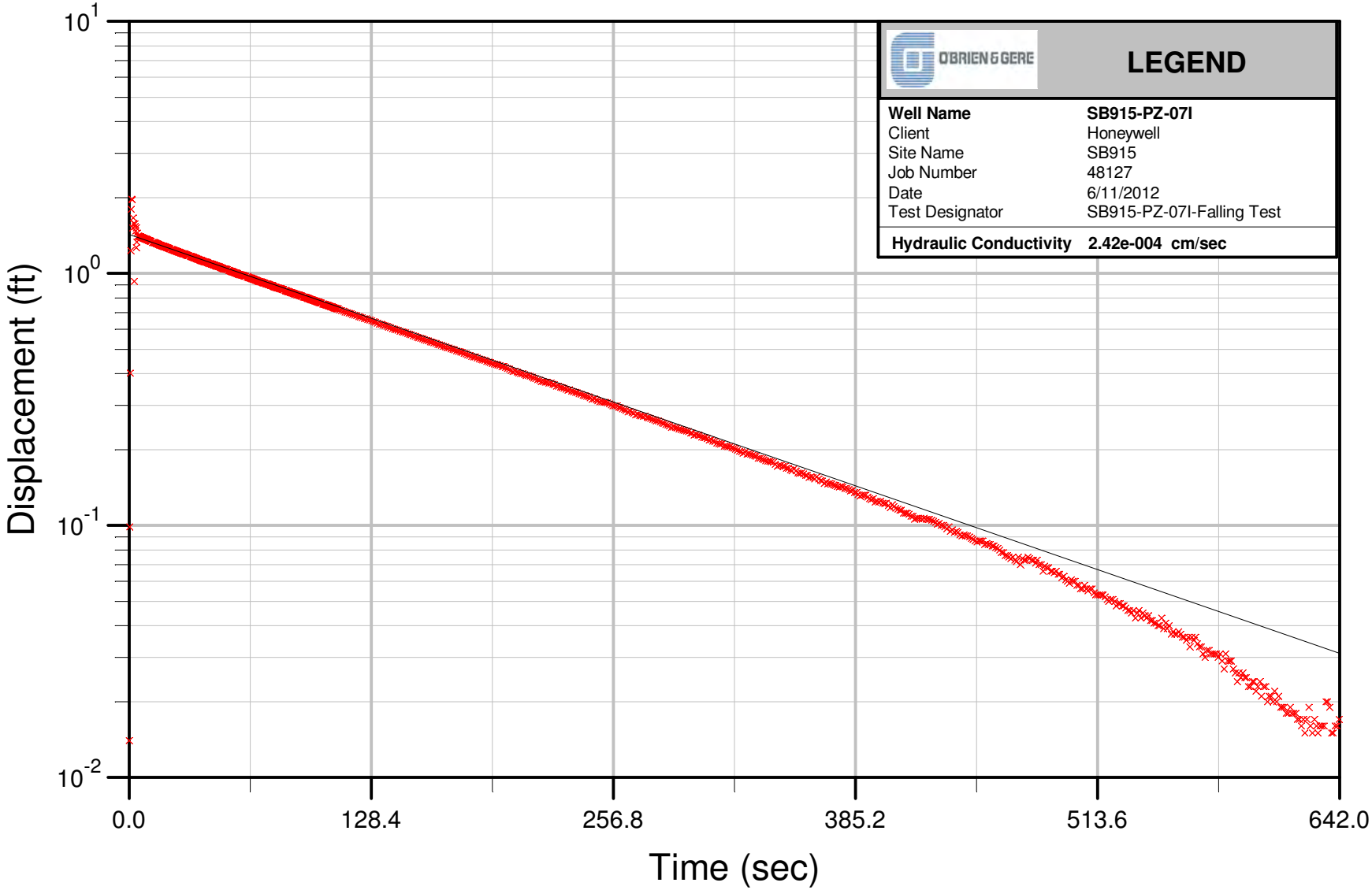
Bouwer & Rice


LEGEND
Well Name SB915-PZ-07D
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/11/2012
Test Designator SB915-PZ-07D-Falling Test
Hydraulic Conductivity 4.02e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
503.00
1006.00
1509.00
2012.00
2515.00
Time (sec)

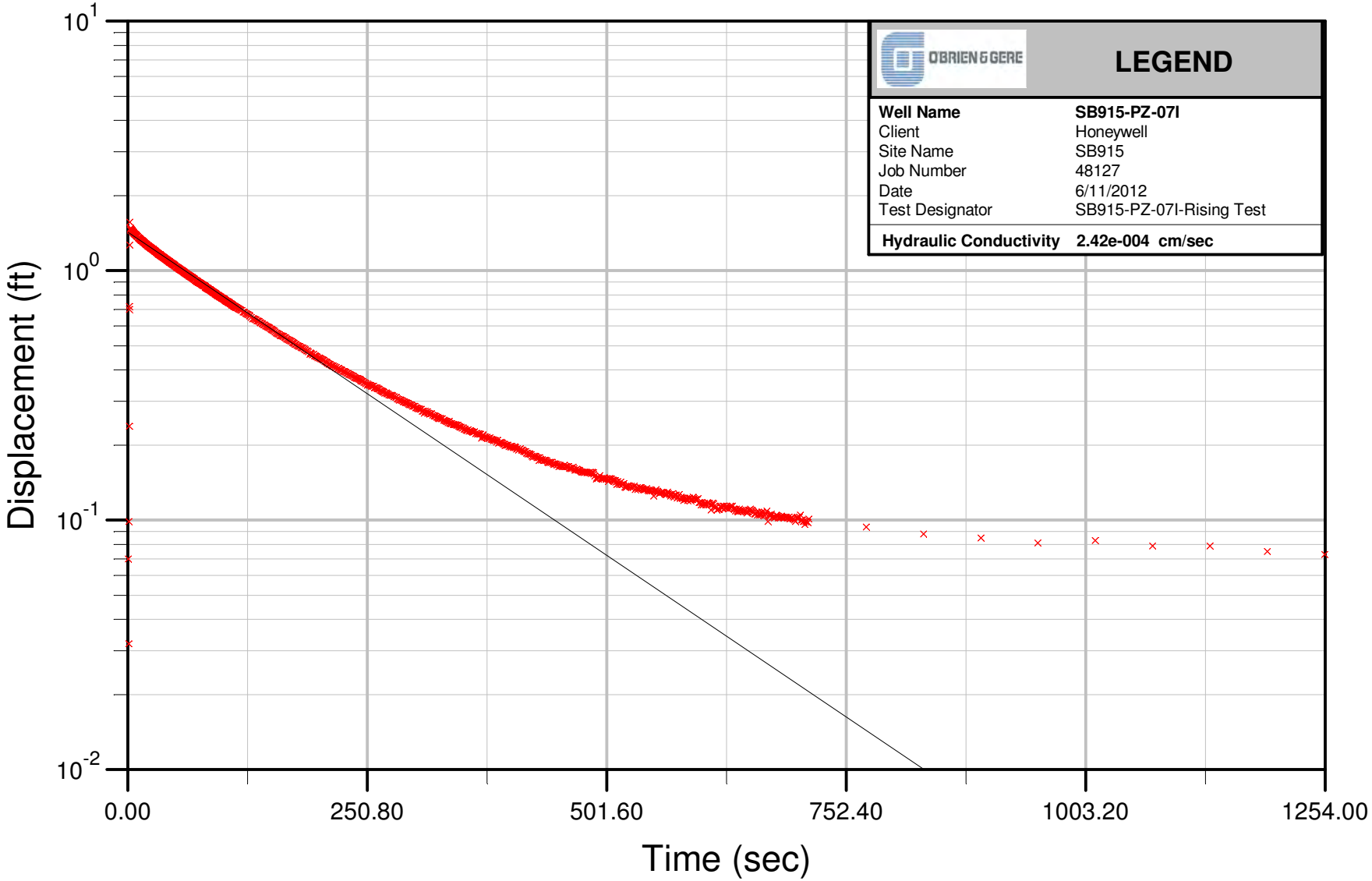
Bouwer & Rice


LEGEND
Well Name SB915-PZ-07D
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/12/2012
Test Designator SB915-PZ-07D-Rising Test
Hydraulic Conductivity 3.63e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
2554.600
5109.200
7663.800
10218.400
12773.000
Time (sec)

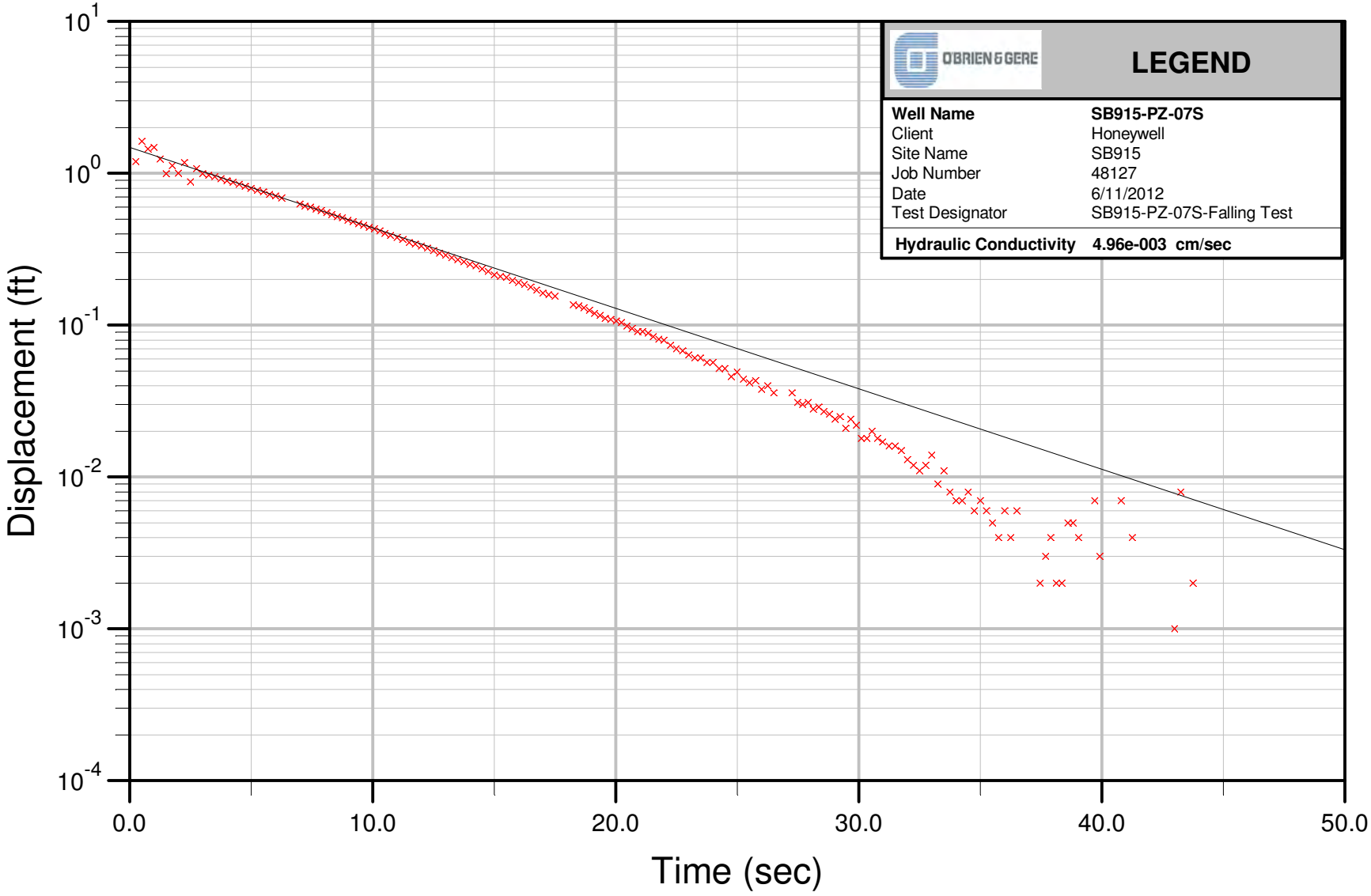
Bouwer & Rice


LEGEND
Well Name SB915-PZ-07I
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/11/2012
Test Designator SB915-PZ-07I-Falling Test
Hydraulic Conductivity 2.42e-004 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
128.4
256.8
385.2
513.6
642.0
Time (sec)

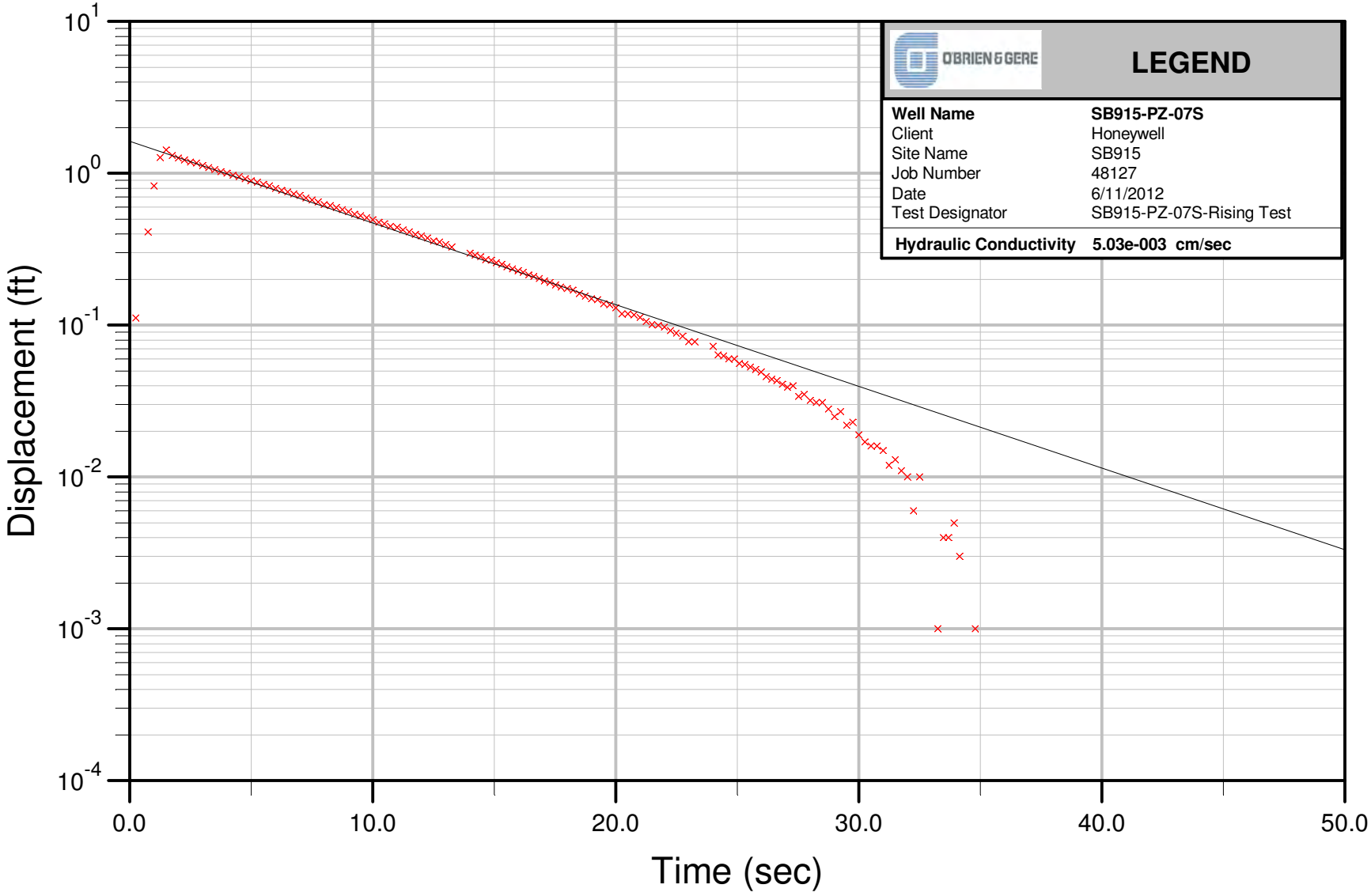
Bouwer & Rice


LEGEND
Well Name SB915-PZ-07I
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/11/2012
Test Designator SB915-PZ-07I-Rising Test
Hydraulic Conductivity 2.42e-004 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
250.80
501.60
752.40
1003.20
1254.00
Time (sec)

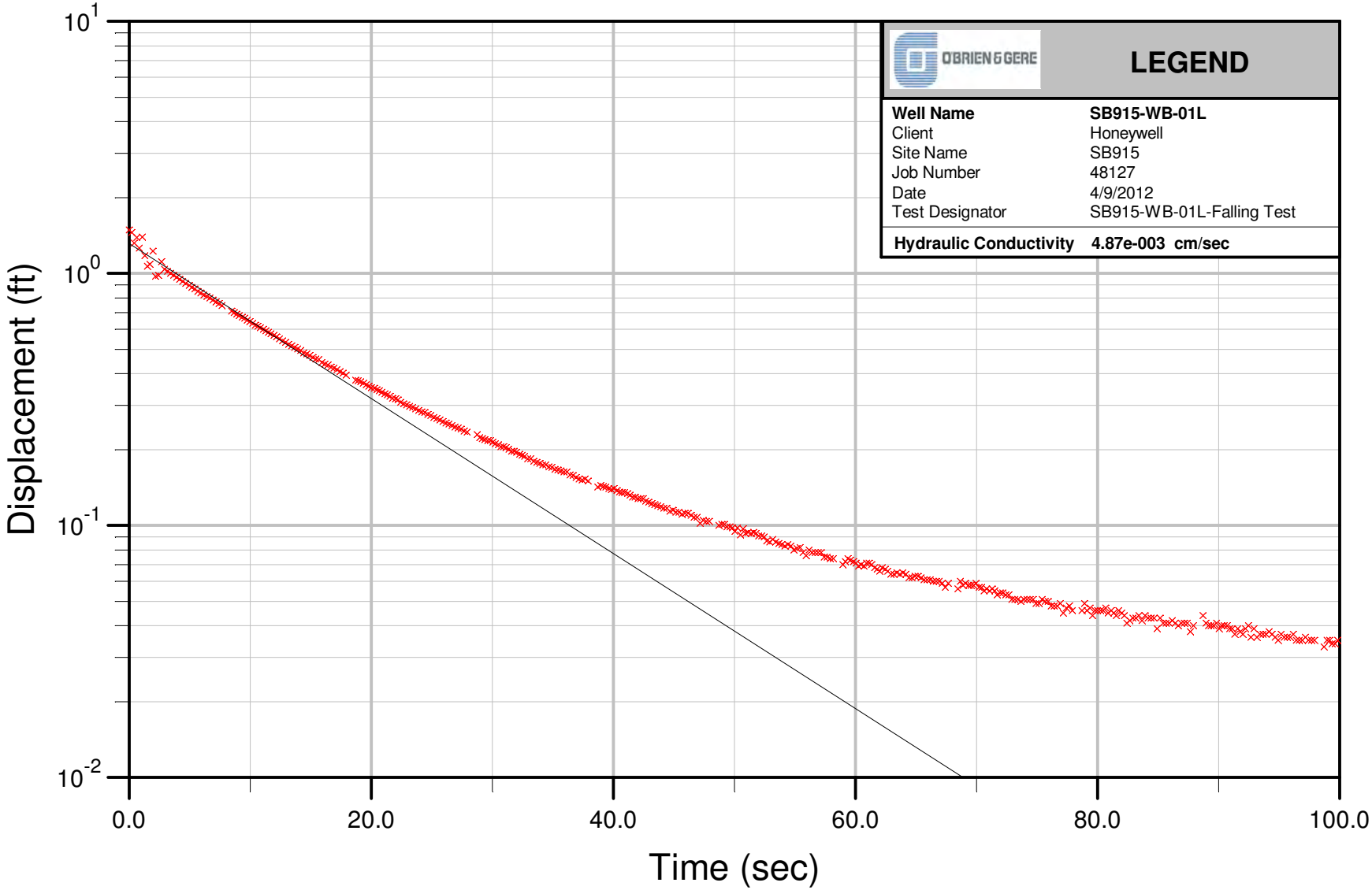
Bouwer & Rice


LEGEND
Well Name SB915-PZ-07S
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/11/2012
Test Designator SB915-PZ-07S-Falling Test
Hydraulic Conductivity 4.96e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
10.0
20.0
30.0
40.0
50.0

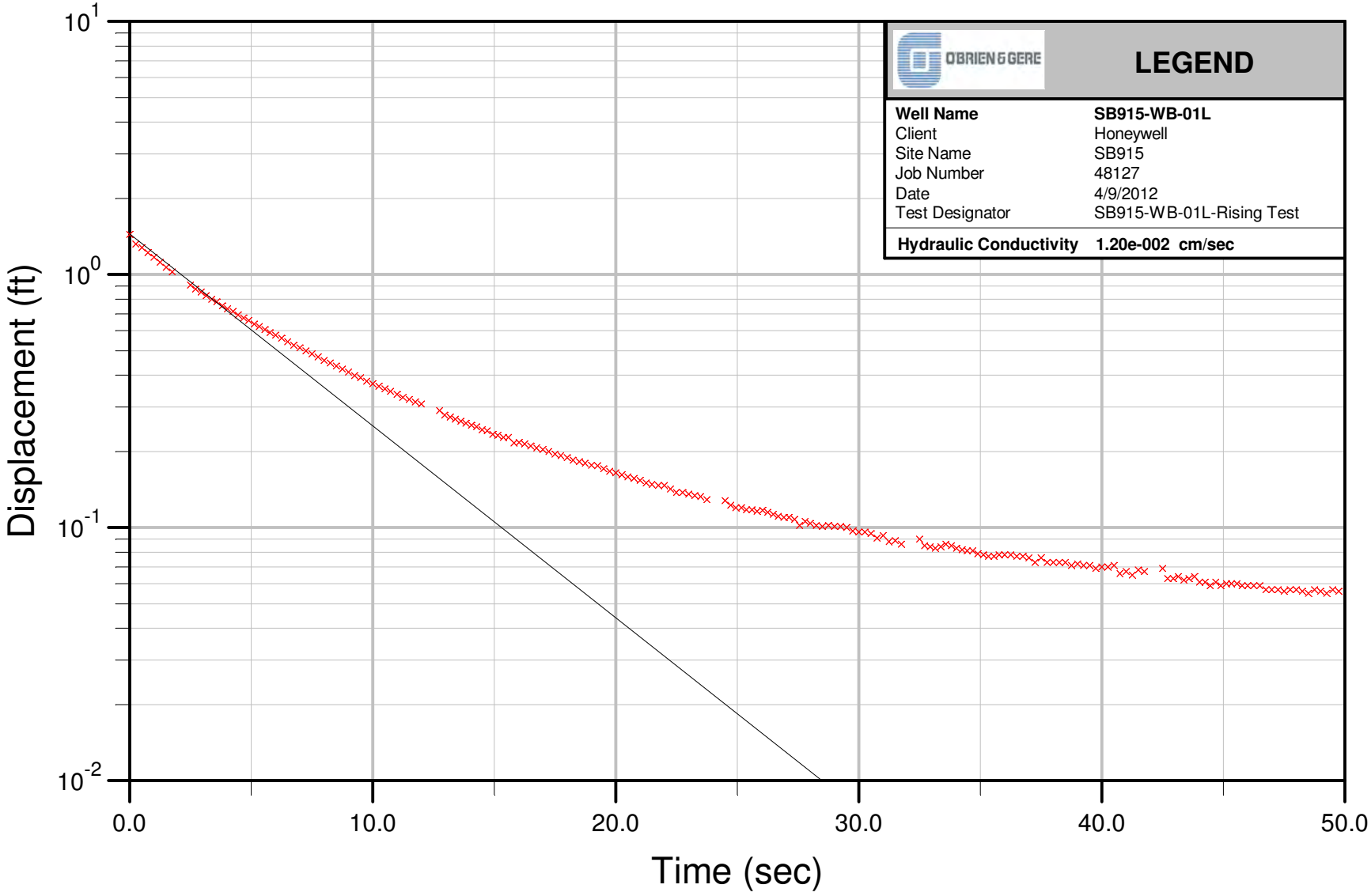
Bouwer & Rice

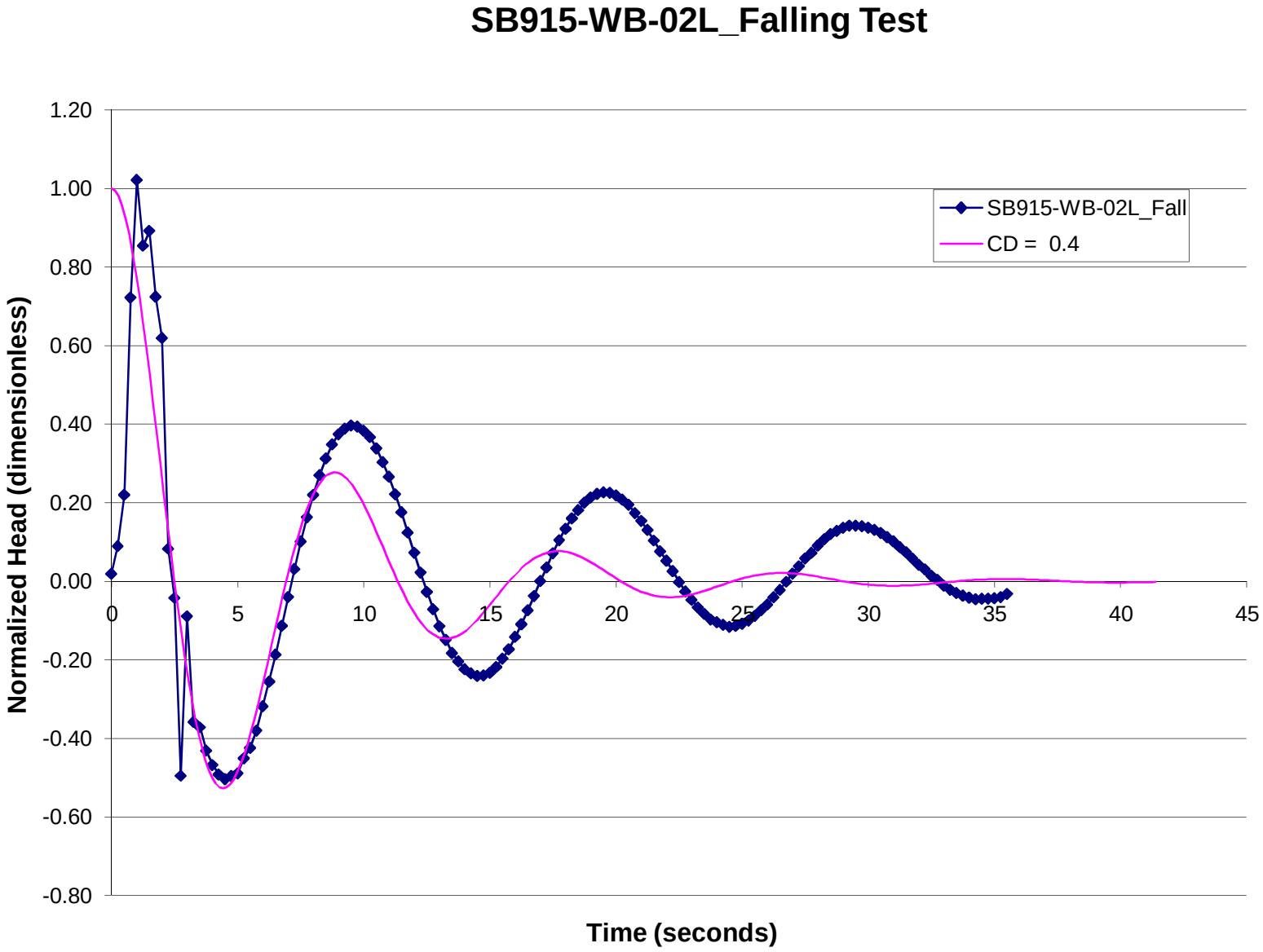

LEGEND
Well Name SB915-PZ-07S
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/11/2012
Test Designator SB915-PZ-07S-Rising Test
Hydraulic Conductivity 5.03e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
10.0
20.0
30.0
40.0
50.0

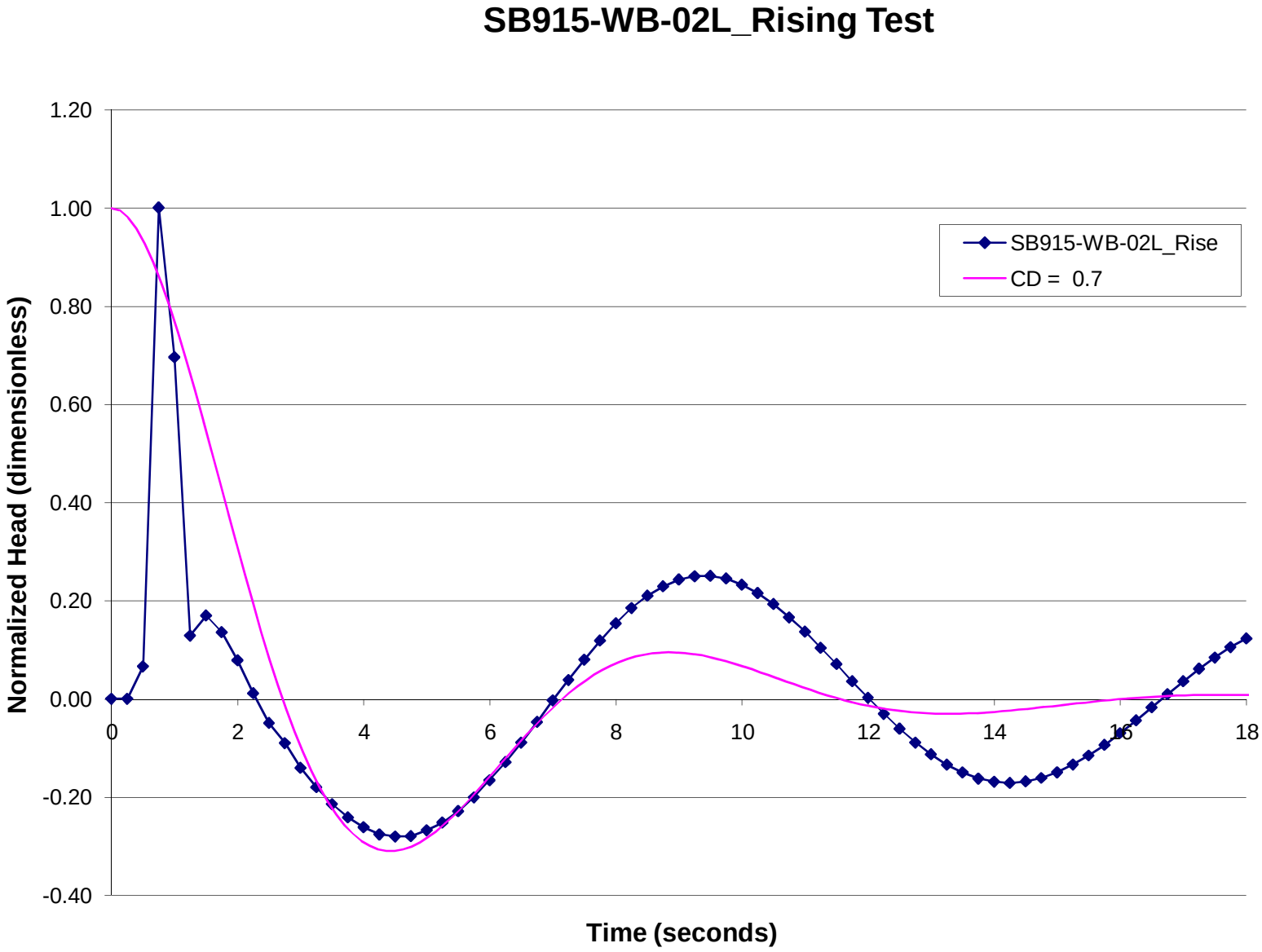
Bouwer & Rice

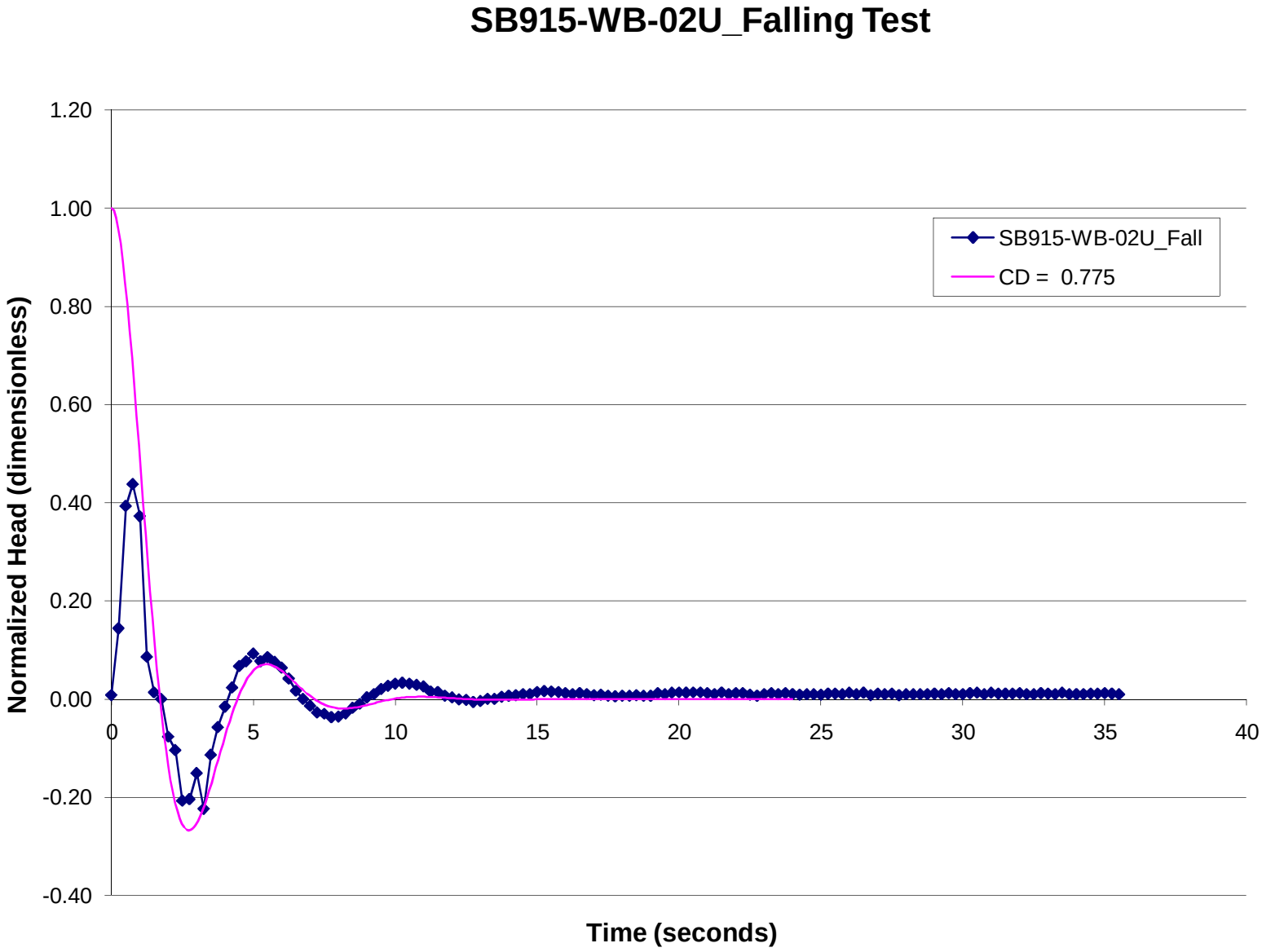

LEGEND
Well Name SB915-WB-01L
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/9/2012
Test Designator SB915-WB-01L-Falling Test
Hydraulic Conductivity 4.87e-003 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
20.0
40.0
60.0
80.0
100.0
Time (sec)

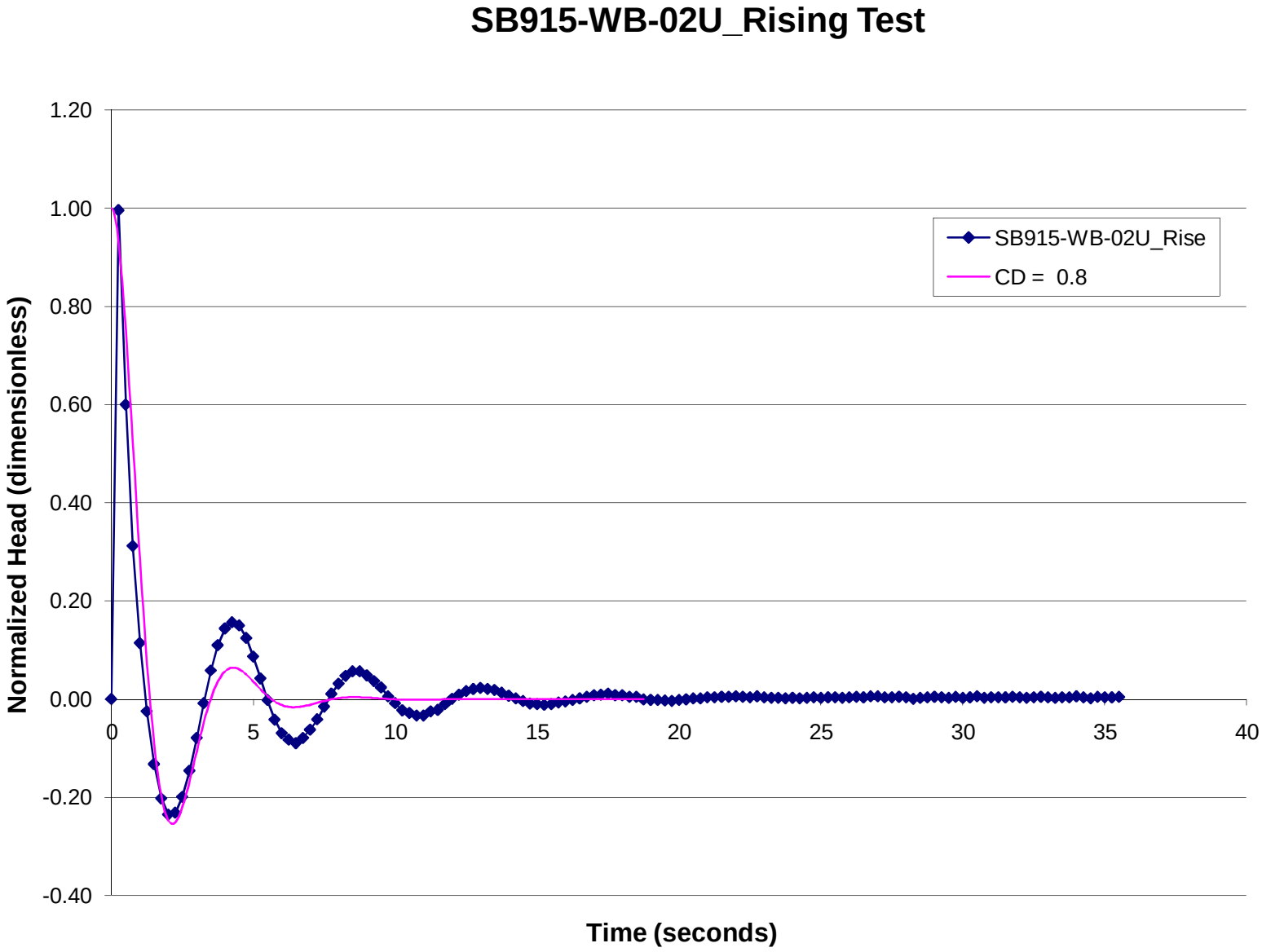
Bouwer & Rice


LEGEND
Well Name SB915-WB-01L
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/9/2012
Test Designator SB915-WB-01L-Rising Test
Hydraulic Conductivity 1.20e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
10.0
20.0
30.0
40.0
50.0

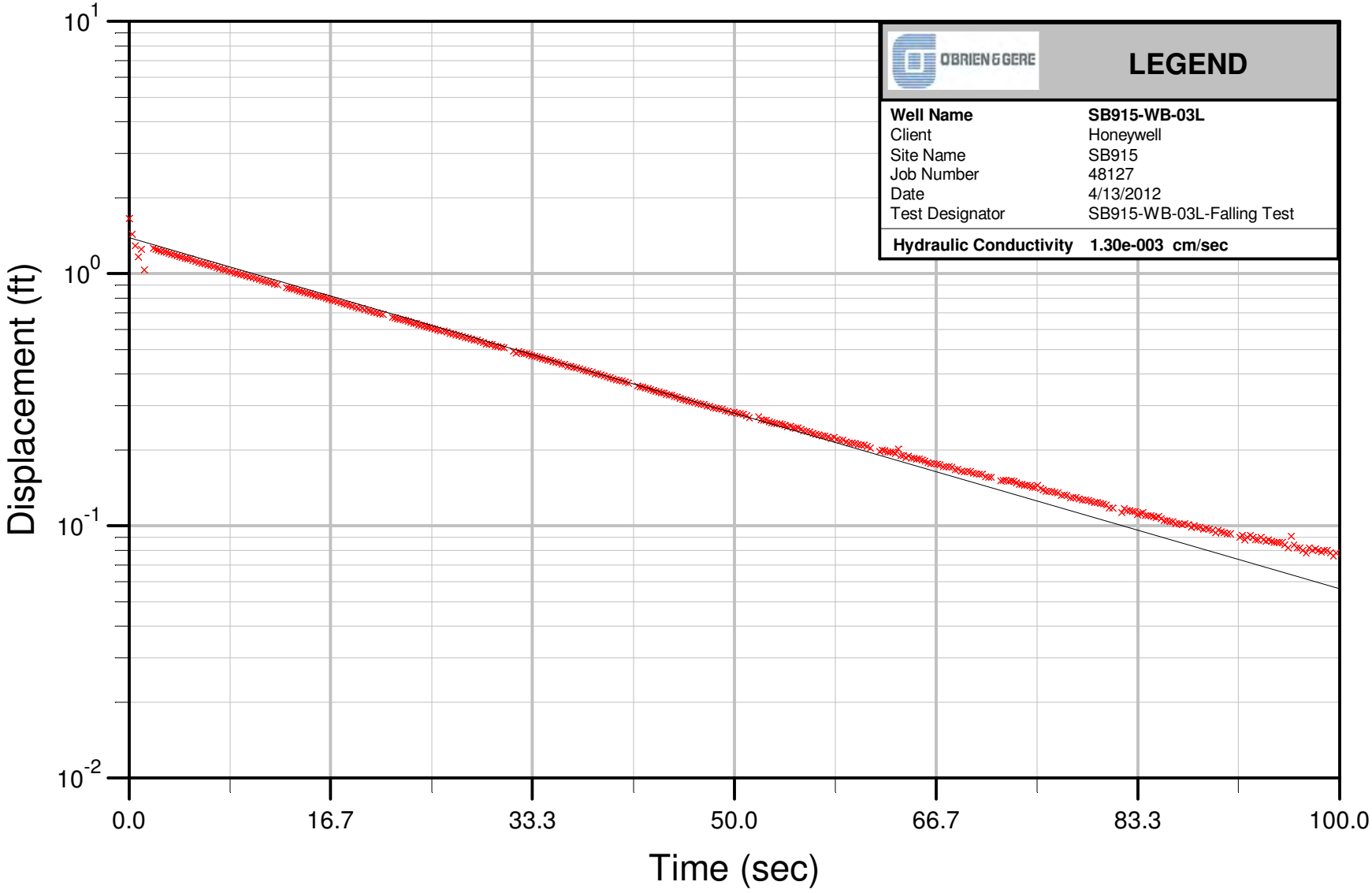

SB915-WB-02L_Falling Test
Normalized Head (dimensionless)
Time (seconds)
SB915-WB-02L_Fall
CD = 0.4
1.20
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
-0.40
-0.60
-0.80
0
5
10
15
20
25
30
35
40
45


SB915-WB-02L_Rising Test
1.20
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
-0.40
Normalized Head (dimensionless)
0
2
4
6
8
10
12
14
16
18
Time (seconds)
SB915-WB-02L_Rise
CD = 0.7

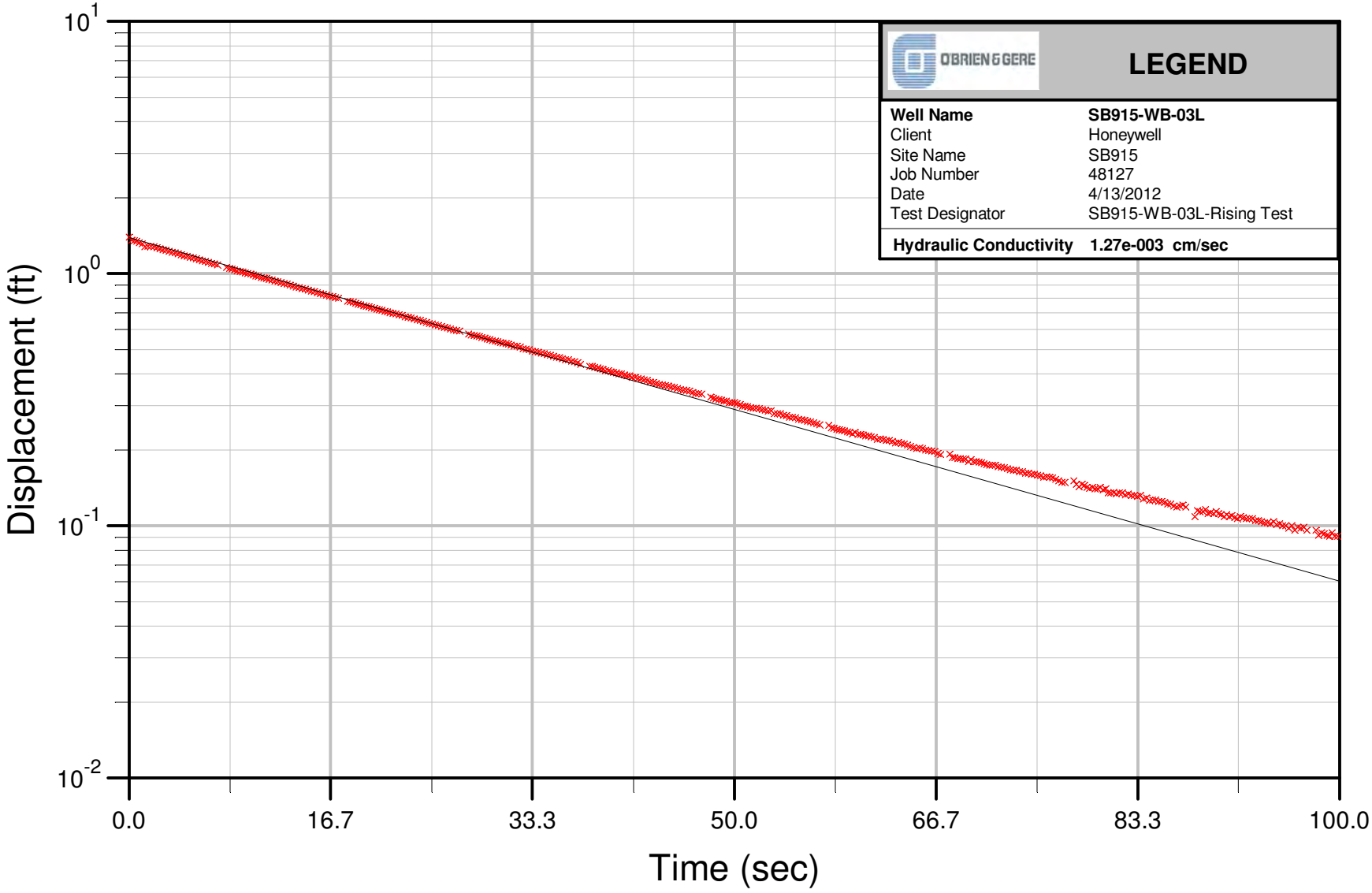

SB915-WB-02U_Falling Test
Normalized Head (dimensionless)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
-0.40
0
5
10
15
20
25
30
35
40
Time (seconds)
SB915-WB-02U_Fall
CD = 0.775


SB915-WB-02U_Rising Test
1.20
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
-0.40
Normalized Head (dimensionless)
0
5
10
15
20
25
30
35
40
Time (seconds)
SB915-WB-02U_Rise
CD = 0.8

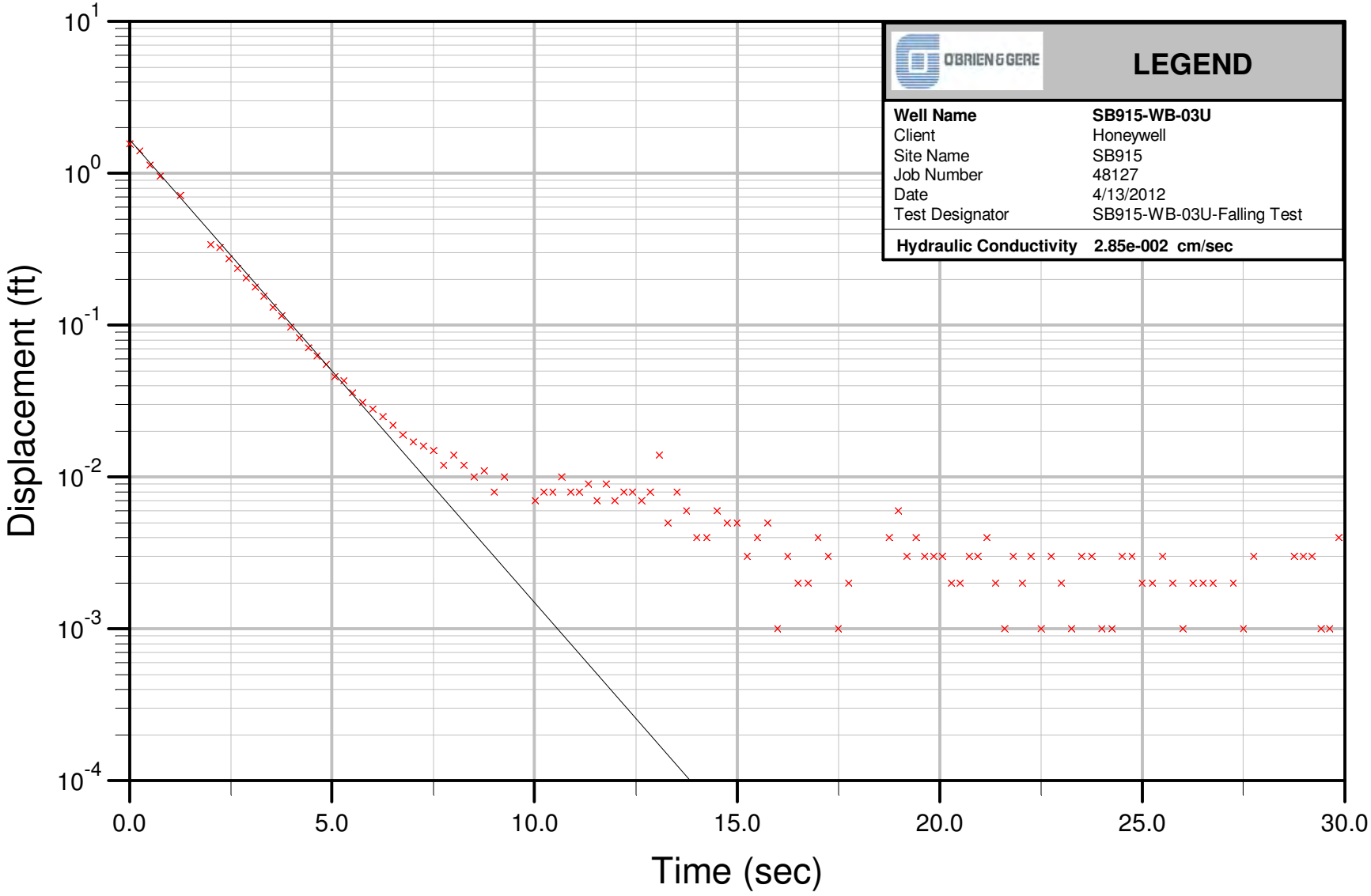
Bouwer & Rice


LEGEND
Well Name SB915-WB-03L
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/13/2012
Test Designator SB915-WB-03L-Falling Test
Hydraulic Conductivity 1.30e-003 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
16.7
33.3
50.0
66.7
83.3
100.0
Time (sec)

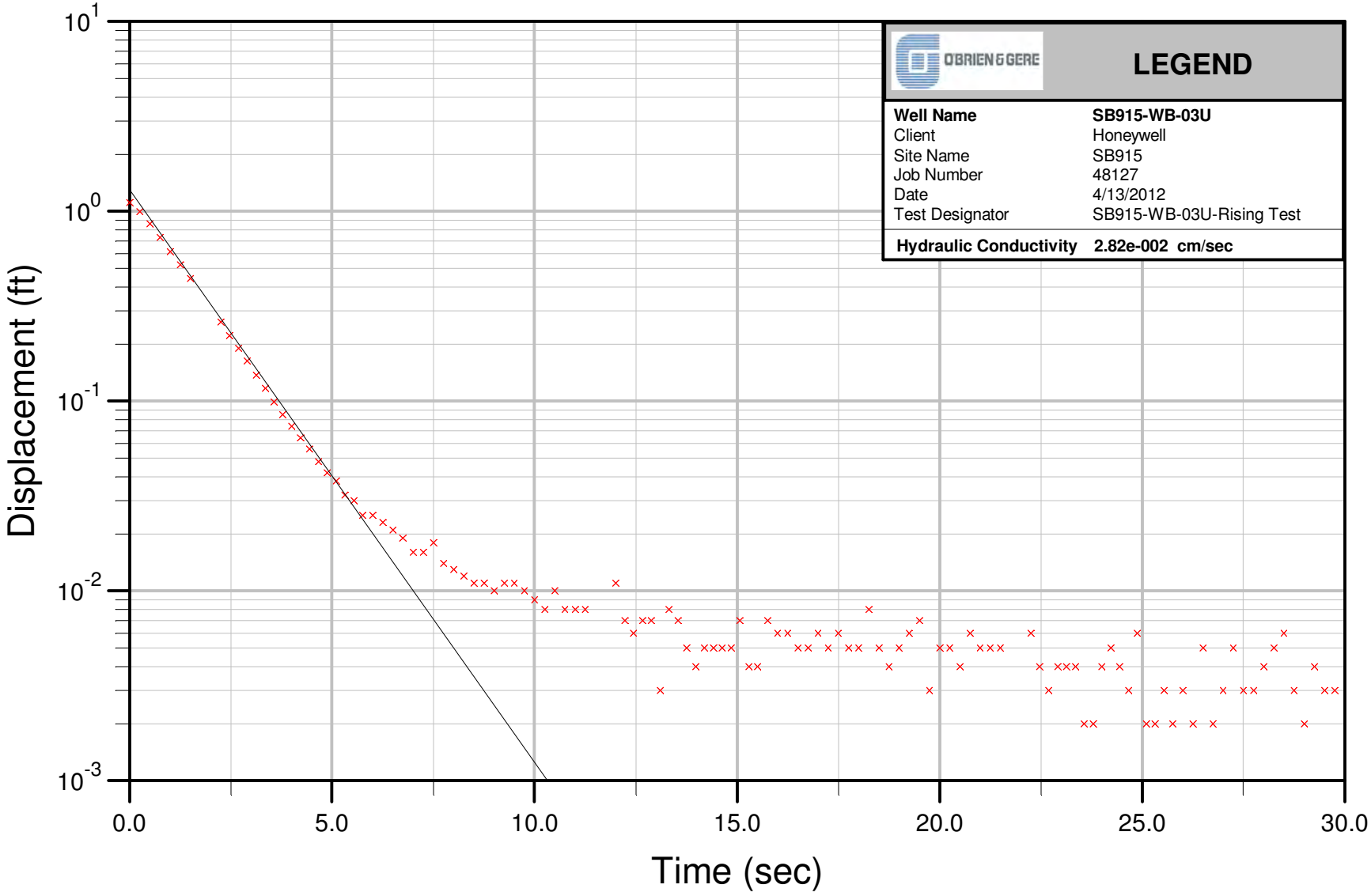
Bouwer & Rice

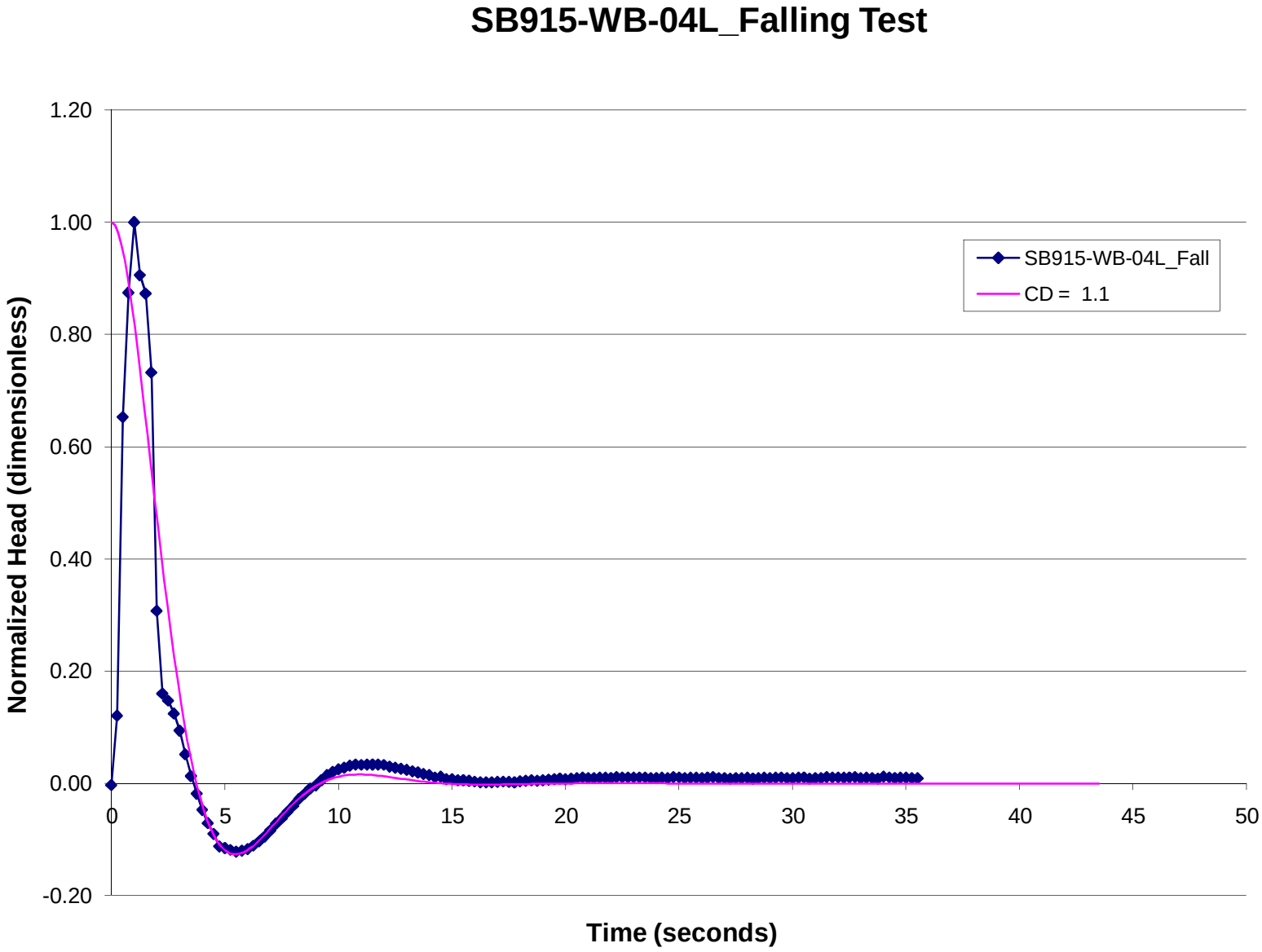

LEGEND
Well Name SB915-WB-03L
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/13/2012
Test Designator SB915-WB-03L-Rising Test
Hydraulic Conductivity 1.27e-003 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
16.7
33.3
50.0
66.7
83.3
100.0
Time (sec)

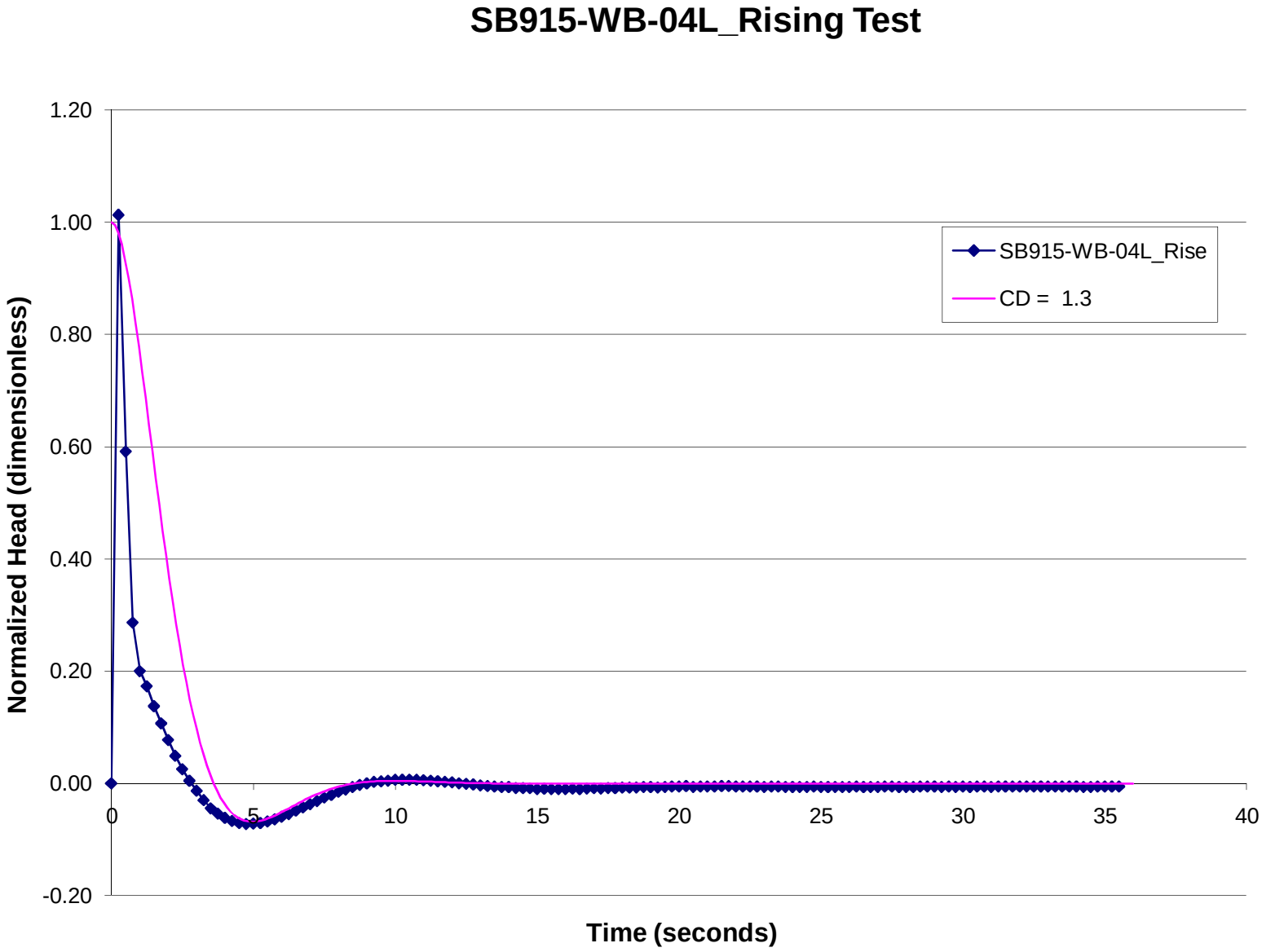
Bouwer & Rice

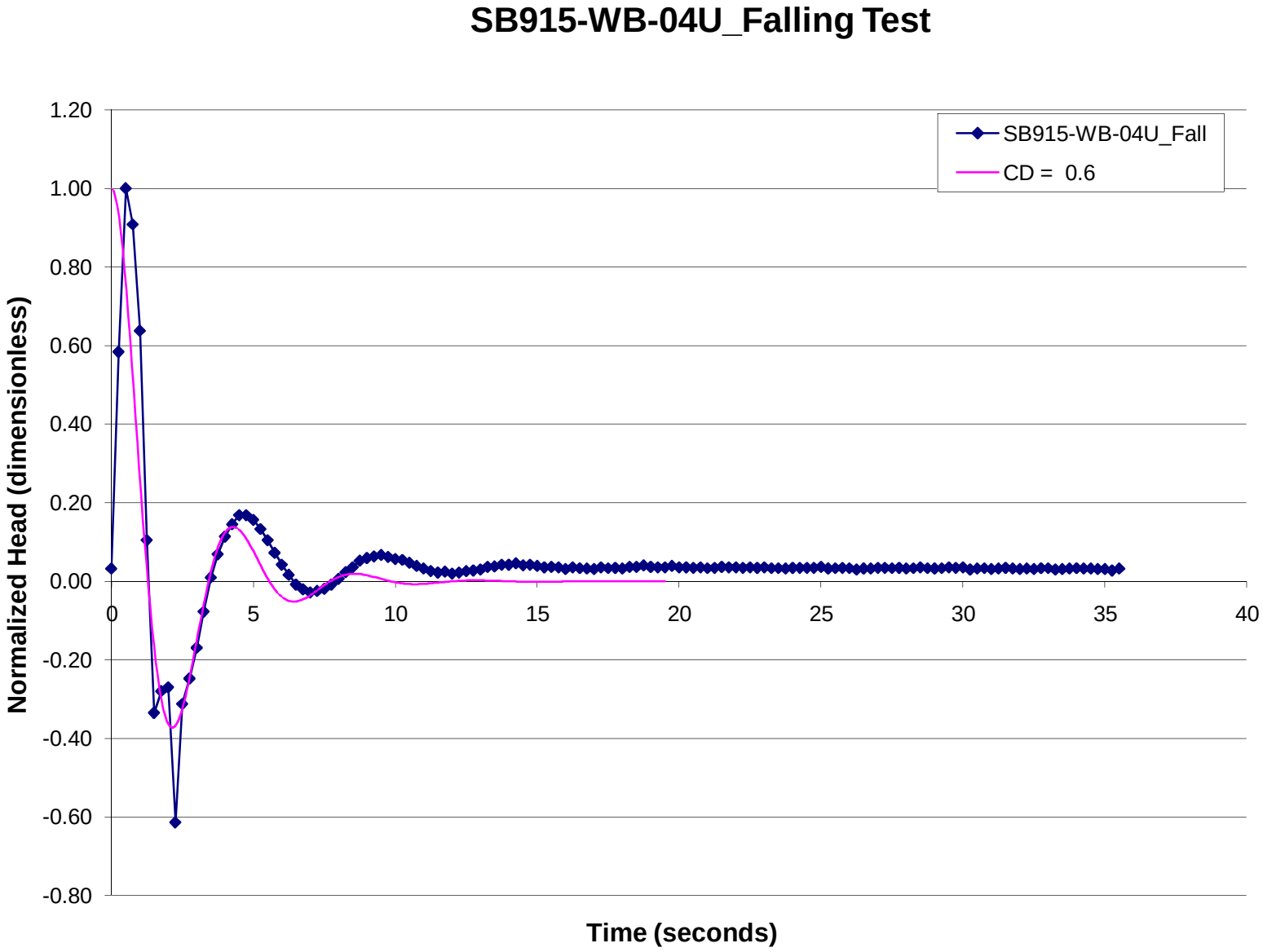

LEGEND
Well Name SB915-WB-03U
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/13/2012
Test Designator SB915-WB-03U-Falling Test
Hydraulic Conductivity 2.85e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
5.0
10.0
15.0
20.0
25.0
30.0

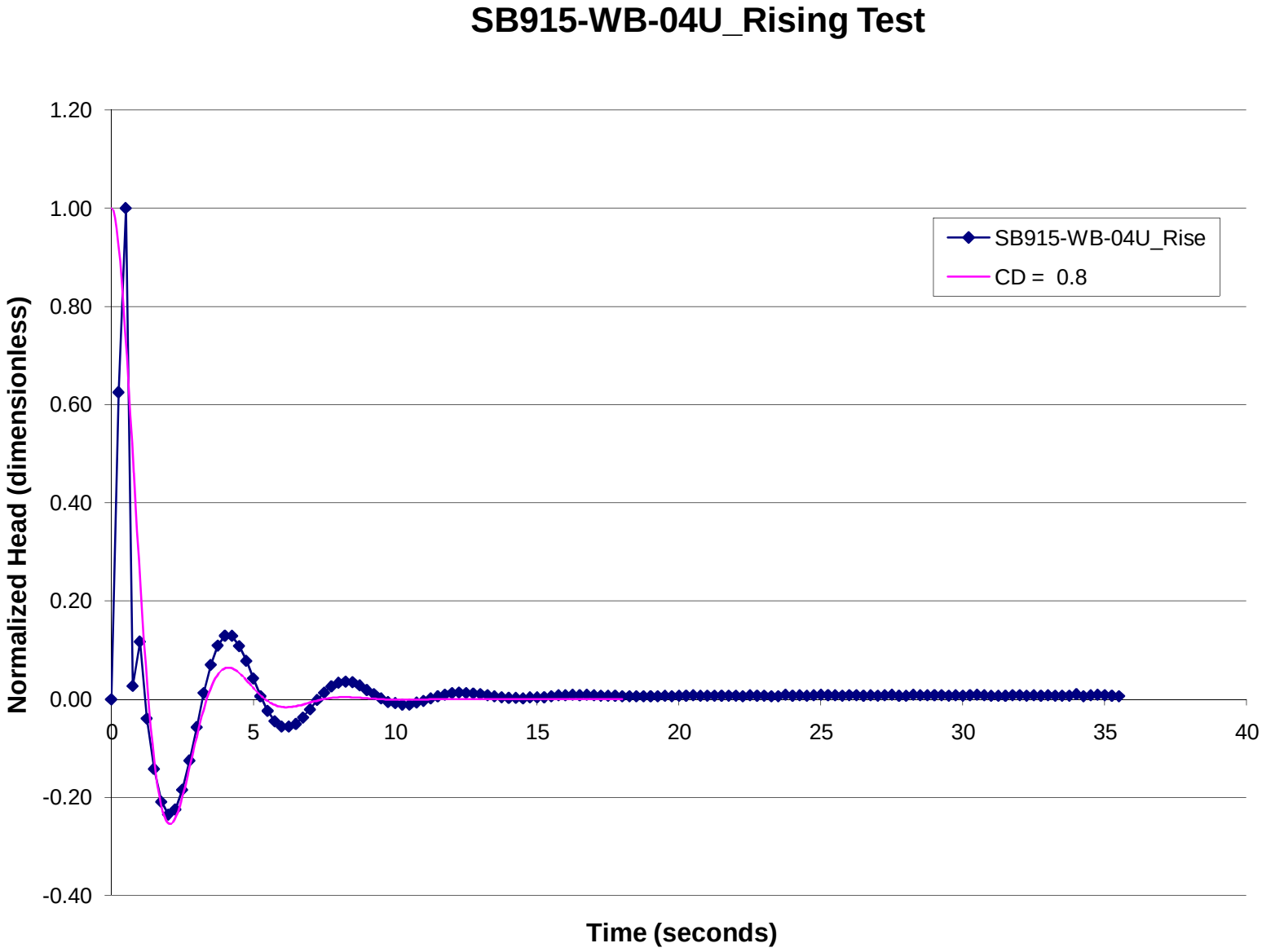
Bouwer & Rice


LEGEND
Well Name SB915-WB-03U
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/13/2012
Test Designator SB915-WB-03U-Rising Test
Hydraulic Conductivity 2.82e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
5.0
10.0
15.0
20.0
25.0
30.0

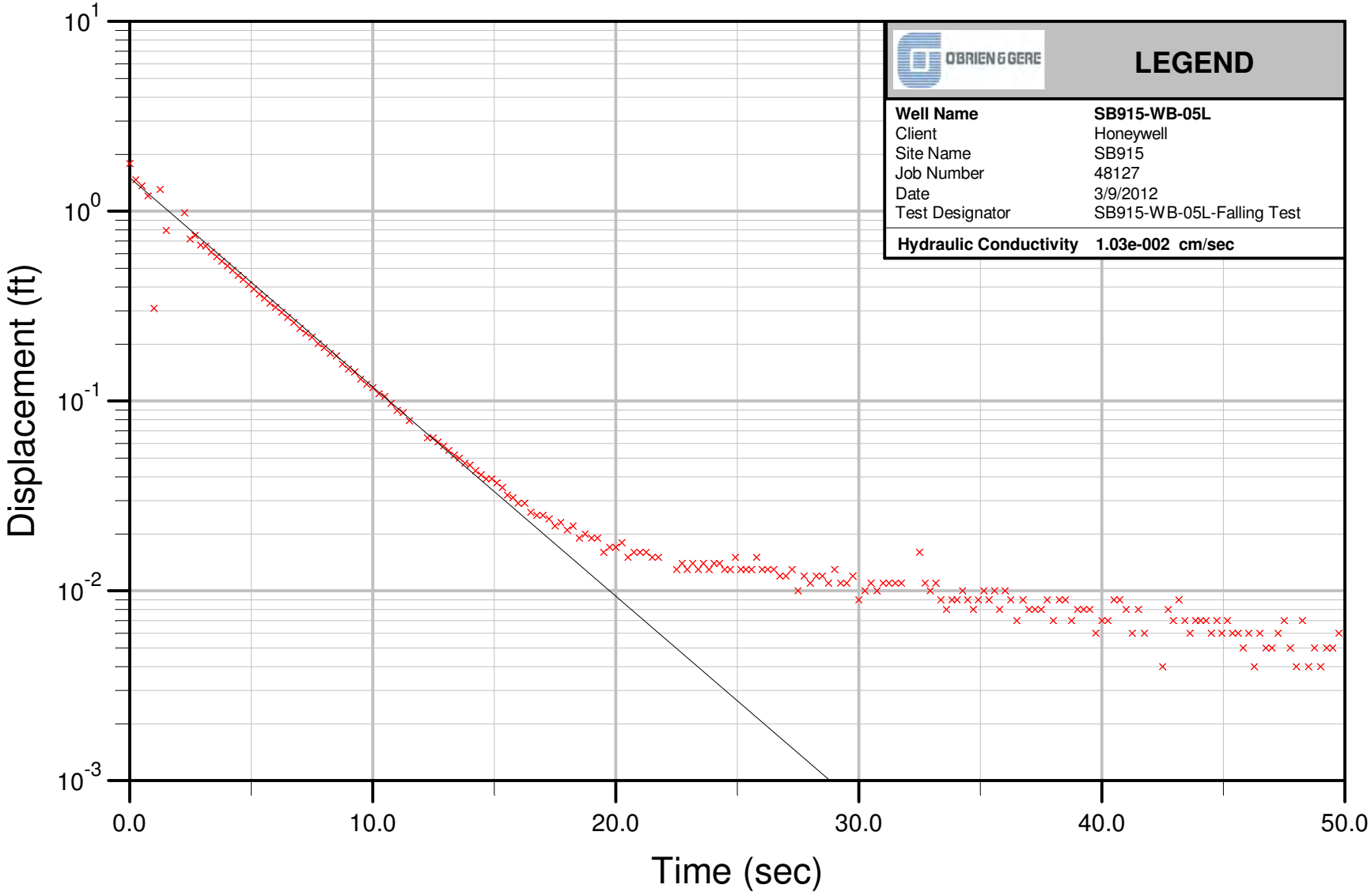

SB915-WB-04L_Falling Test
1.20
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
Normalized Head (dimensionless)
0
5
10
15
20
25
30
35
40
45
50
Time (seconds)
SB915-WB-04L_Fall
CD = 1.1


SB915-WB-04L_Rising Test
1.20
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
Normalized Head (dimensionless)
0
5
10
15
20
25
30
35
40
Time (seconds)
SB915-WB-04L_Rise
CD = 1.3

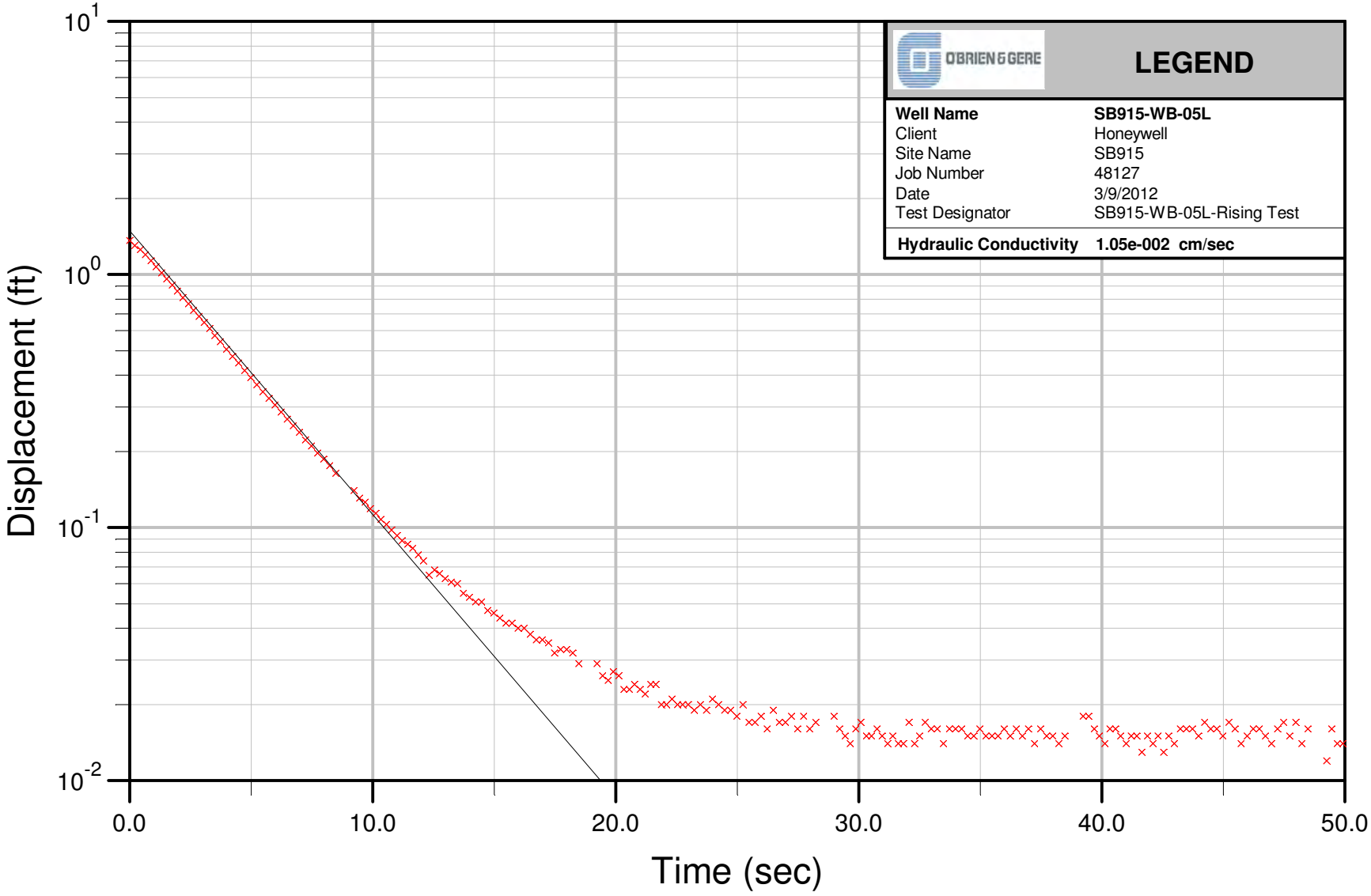

SB915-WB-04U_Falling Test
SB915-WB-04U_Fall
CD = 0.6
Normalized Head (dimensionless)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
-0.40
-0.60
-0.80
0
5
10
15
20
25
30
35
40
Time (seconds)


SB915-WB-04U_Rising Test
Normalized Head (dimensionless)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
-0.20
-0.40
0
5
10
15
20
25
30
35
40
Time (seconds)
SB915-WB-04U_Rise
CD = 0.8

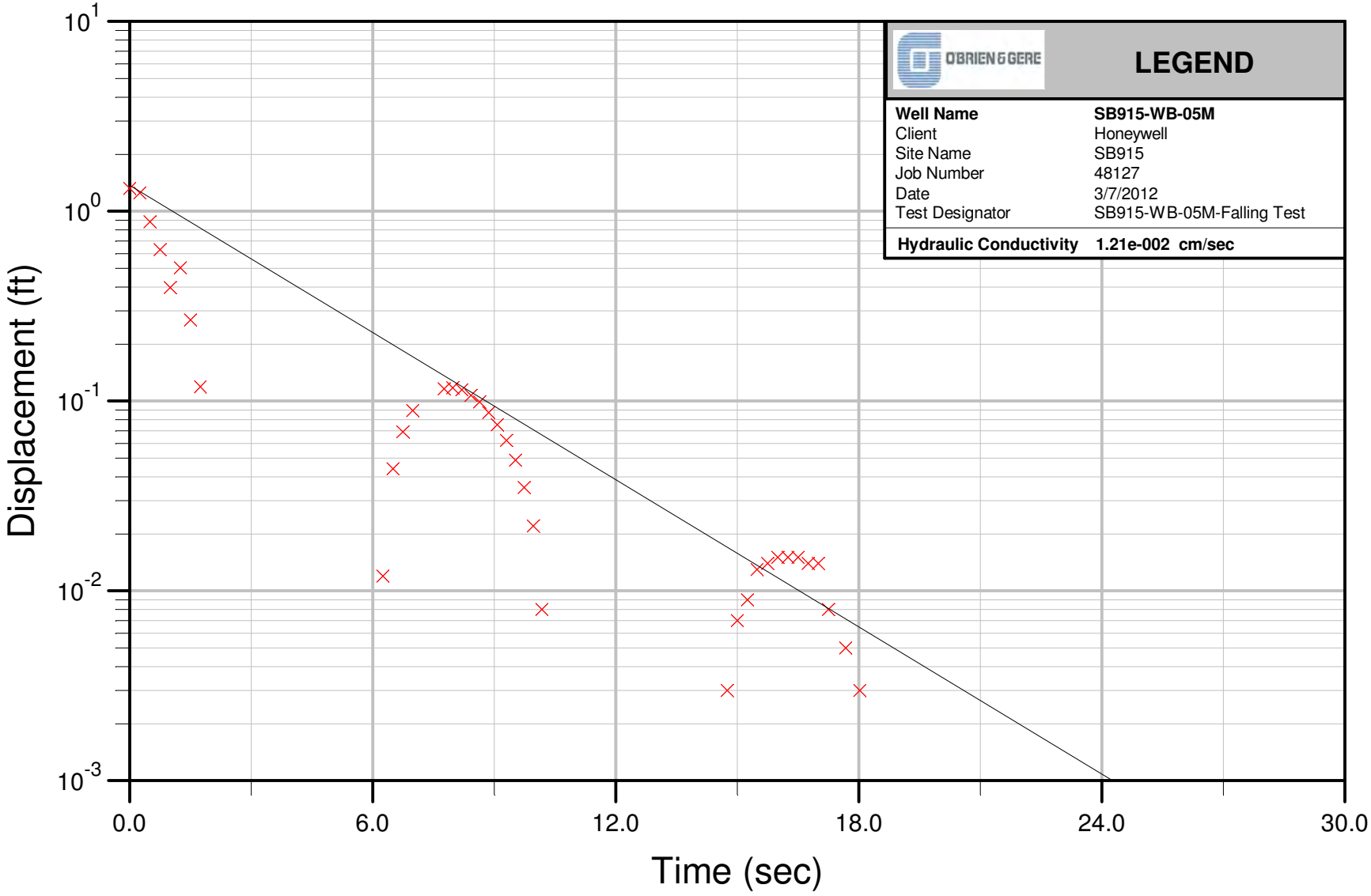
Bouwer & Rice


LEGEND
Well Name SB915-WB-05L
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/9/2012
Test Designator SB915-WB-05L-Falling Test
Hydraulic Conductivity 1.03e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
10.0
20.0
30.0
40.0
50.0

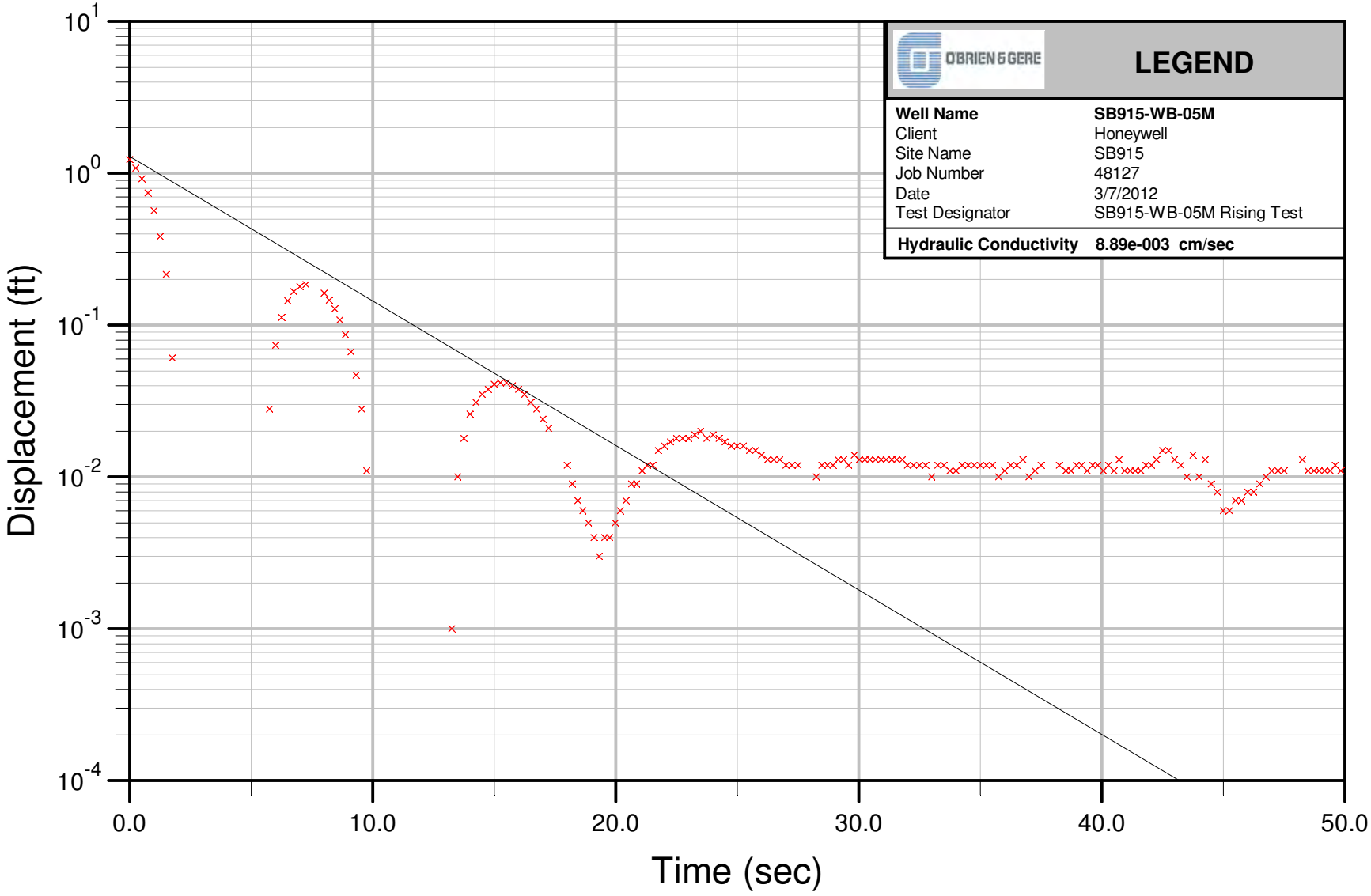
Bouwer & Rice


LEGEND
Well Name SB915-WB-05L
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/9/2012
Test Designator SB915-WB-05L-Rising Test
Hydraulic Conductivity 1.05e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
10.0
20.0
30.0
40.0
50.0

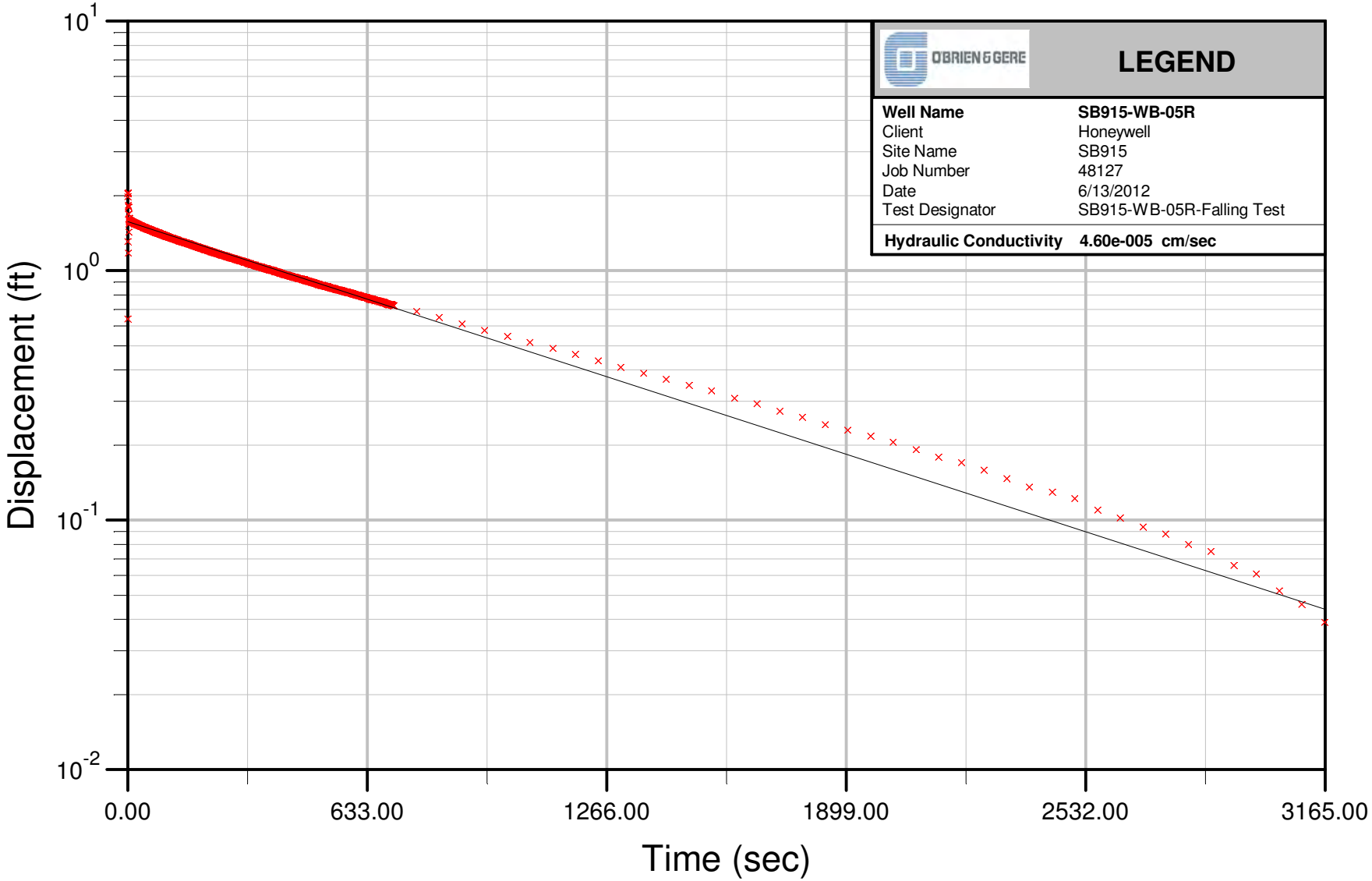
Bouwer & Rice


Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.0
6.0
12.0
18.0
24.0
30.0
Time (sec)
O'BRIEN & GERE
LEGEND
Well Name SB915-WB-05M
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/7/2012
Test Designator SB915-WB-05M-Falling Test
Hydraulic Conductivity 1.21e-002 cm/sec

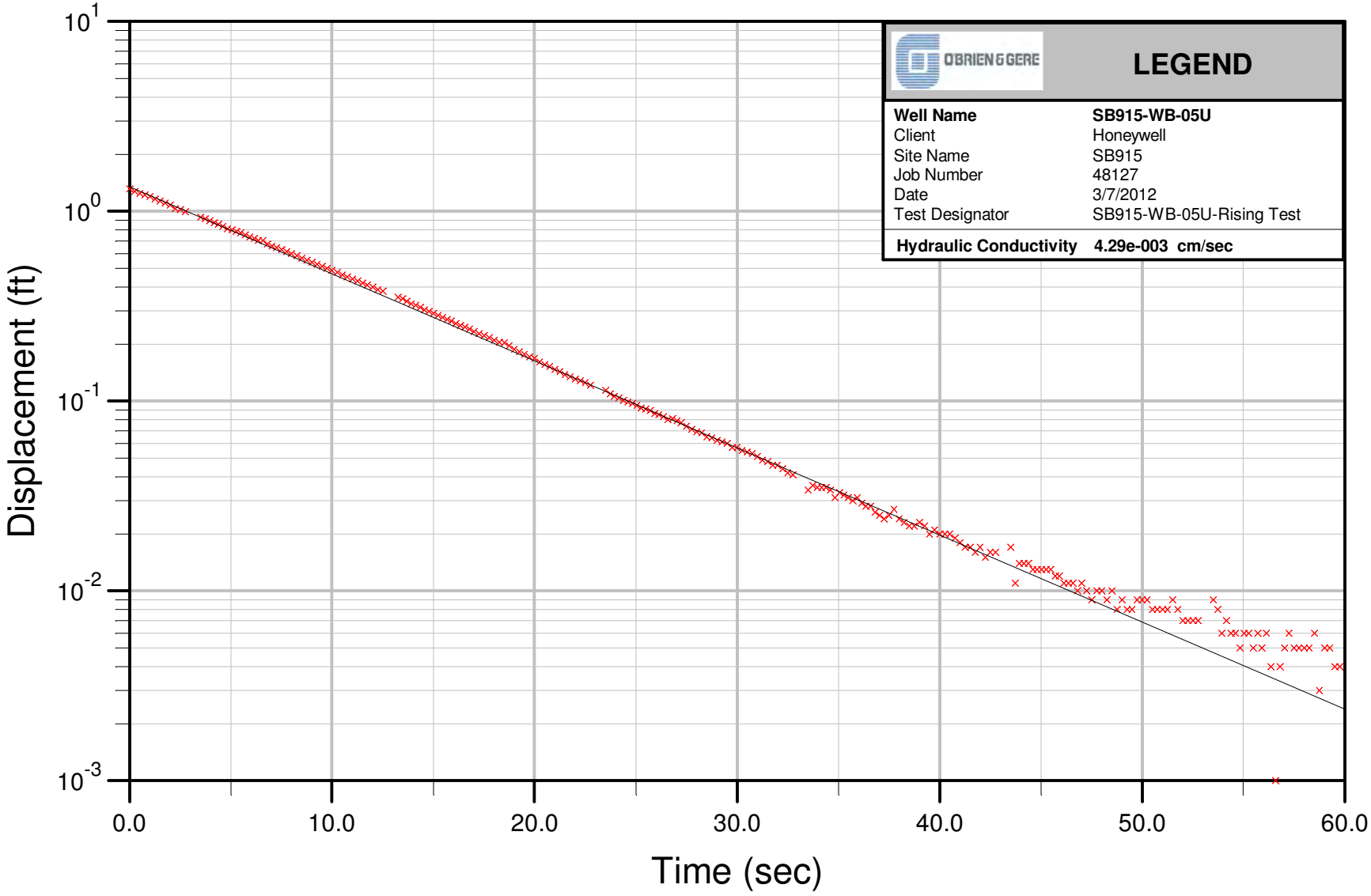
Bouwer & Rice


LEGEND
Well Name SB915-WB-05M
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/7/2012
Test Designator SB915-WB-05M Rising Test
Hydraulic Conductivity 8.89e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
10^-4
0.0
10.0
20.0
30.0
40.0
50.0

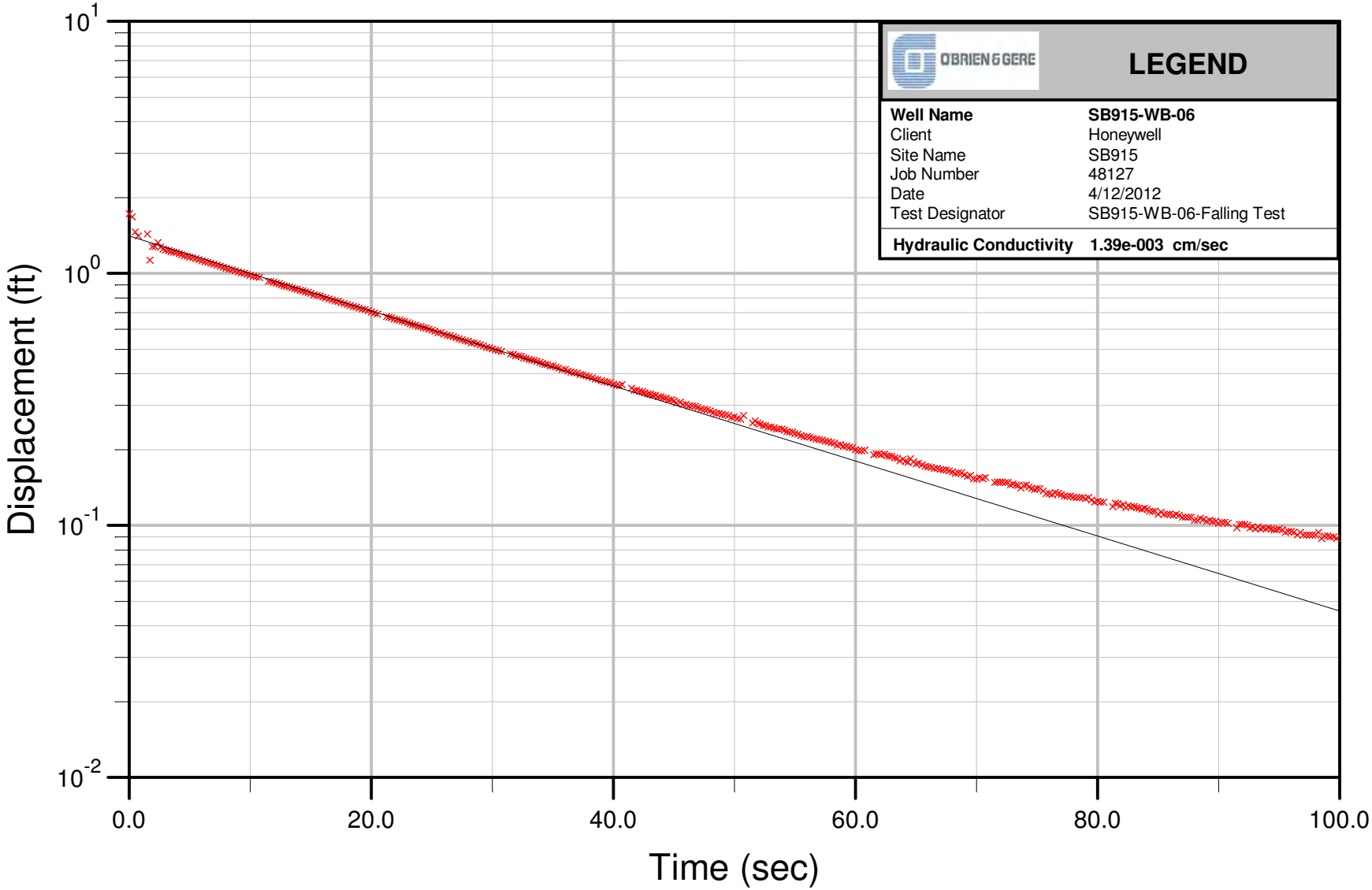
Bouwer & Rice


LEGEND
Well Name SB915-WB-05R
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/13/2012
Test Designator SB915-WB-05R-Falling Test
Hydraulic Conductivity 4.60e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
633.00
1266.00
1899.00
2532.00
3165.00
Time (sec)

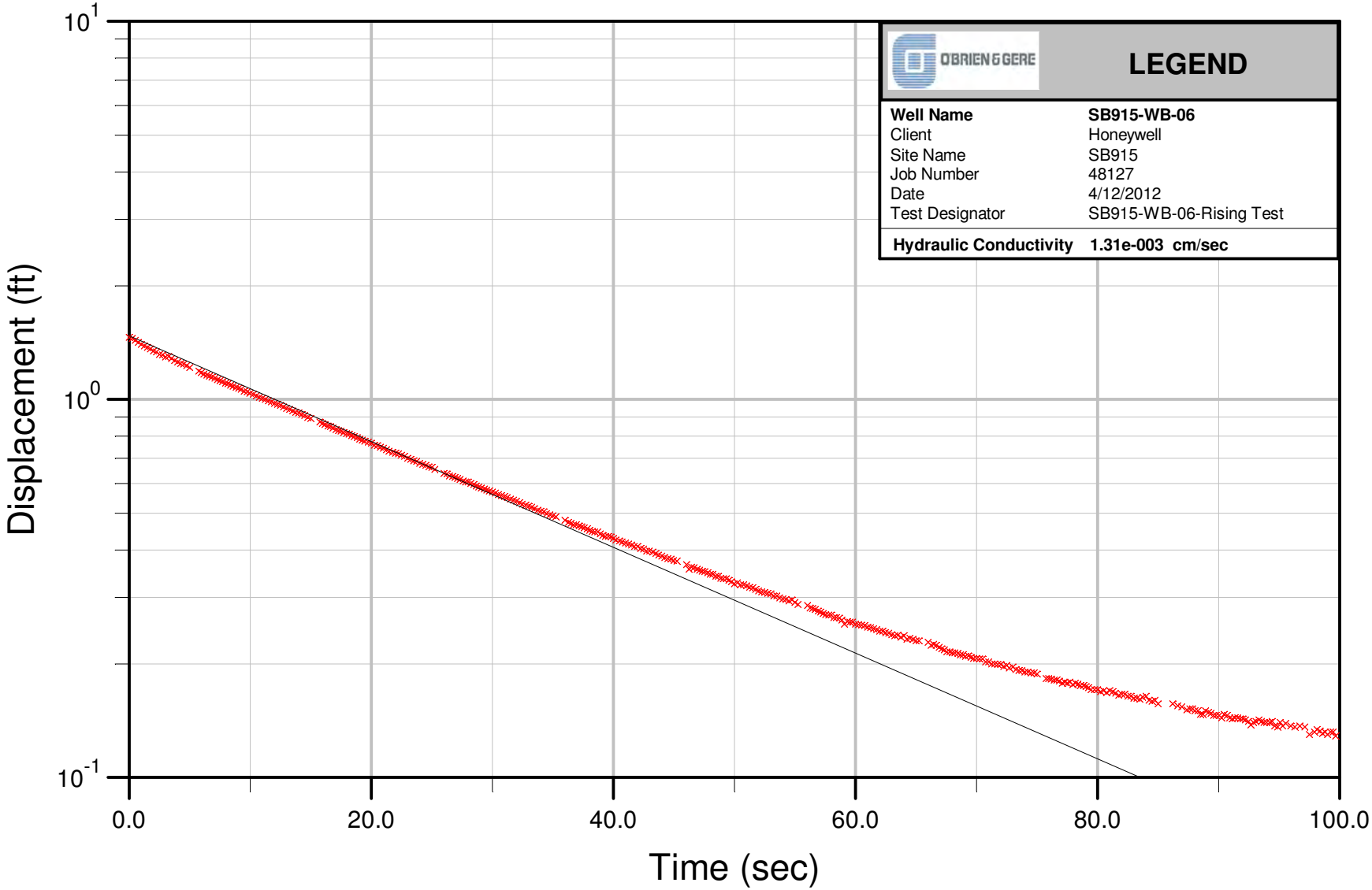
Bouwer & Rice


LEGEND
Well Name SB915-WB-05U
Client Honeywell
Site Name SB915
Job Number 48127
Date 3/7/2012
Test Designator SB915-WB-05U-Rising Test
Hydraulic Conductivity 4.29e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
10.0
20.0
30.0
40.0
50.0
60.0

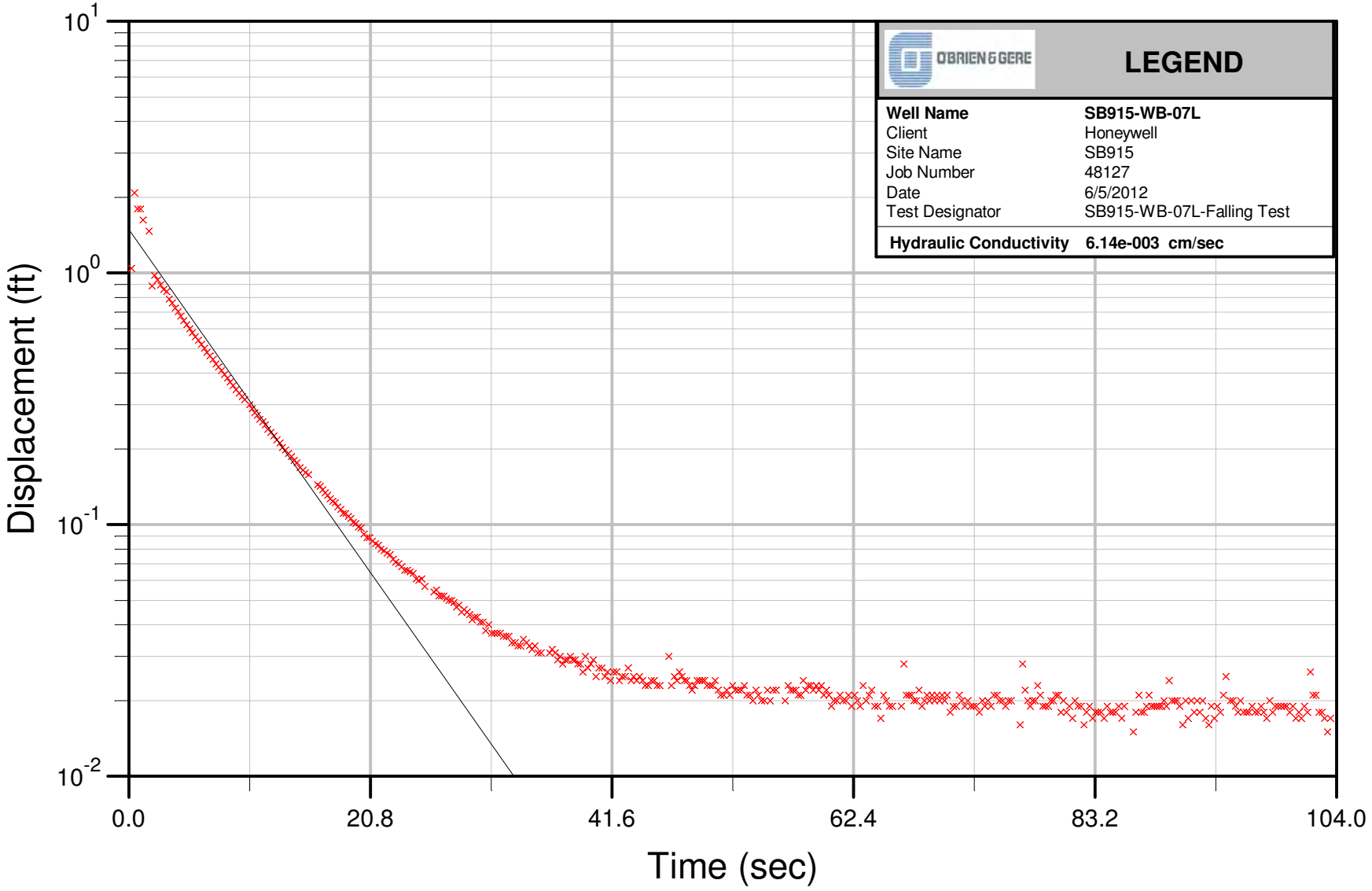
Bouwer & Rice


LEGEND
Well Name SB915-WB-06
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/12/2012
Test Designator SB915-WB-06-Falling Test
Hydraulic Conductivity 1.39e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
20.0
40.0
60.0
80.0
100.0

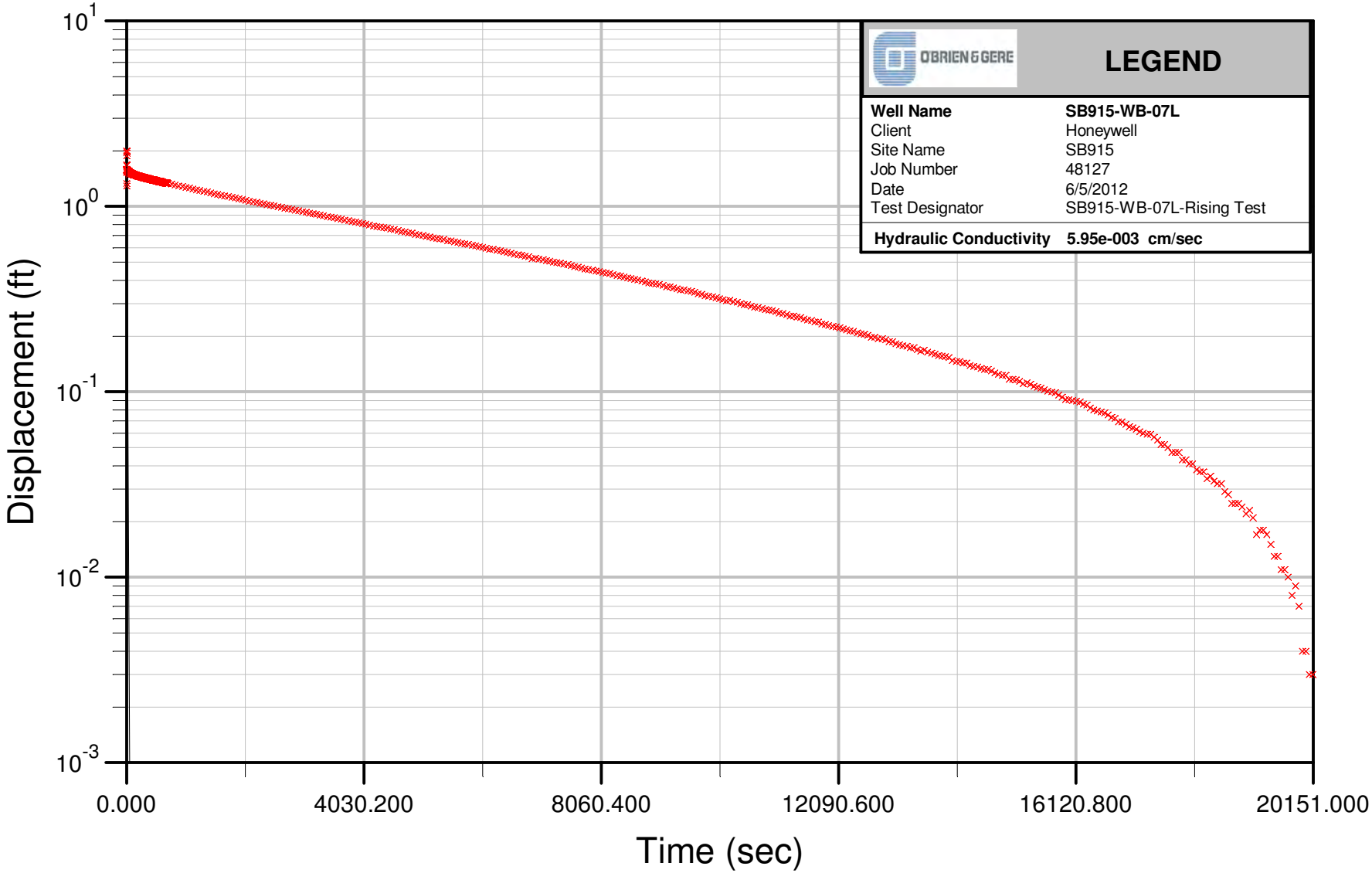
Bouwer & Rice


LEGEND
Well Name SB915-WB-06
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/12/2012
Test Designator SB915-WB-06-Rising Test
Hydraulic Conductivity 1.31e-003 cm/sec
Displacement (ft)
10^1
10^0
10^{-1}
0.0
20.0
40.0
60.0
80.0
100.0
Time (sec)

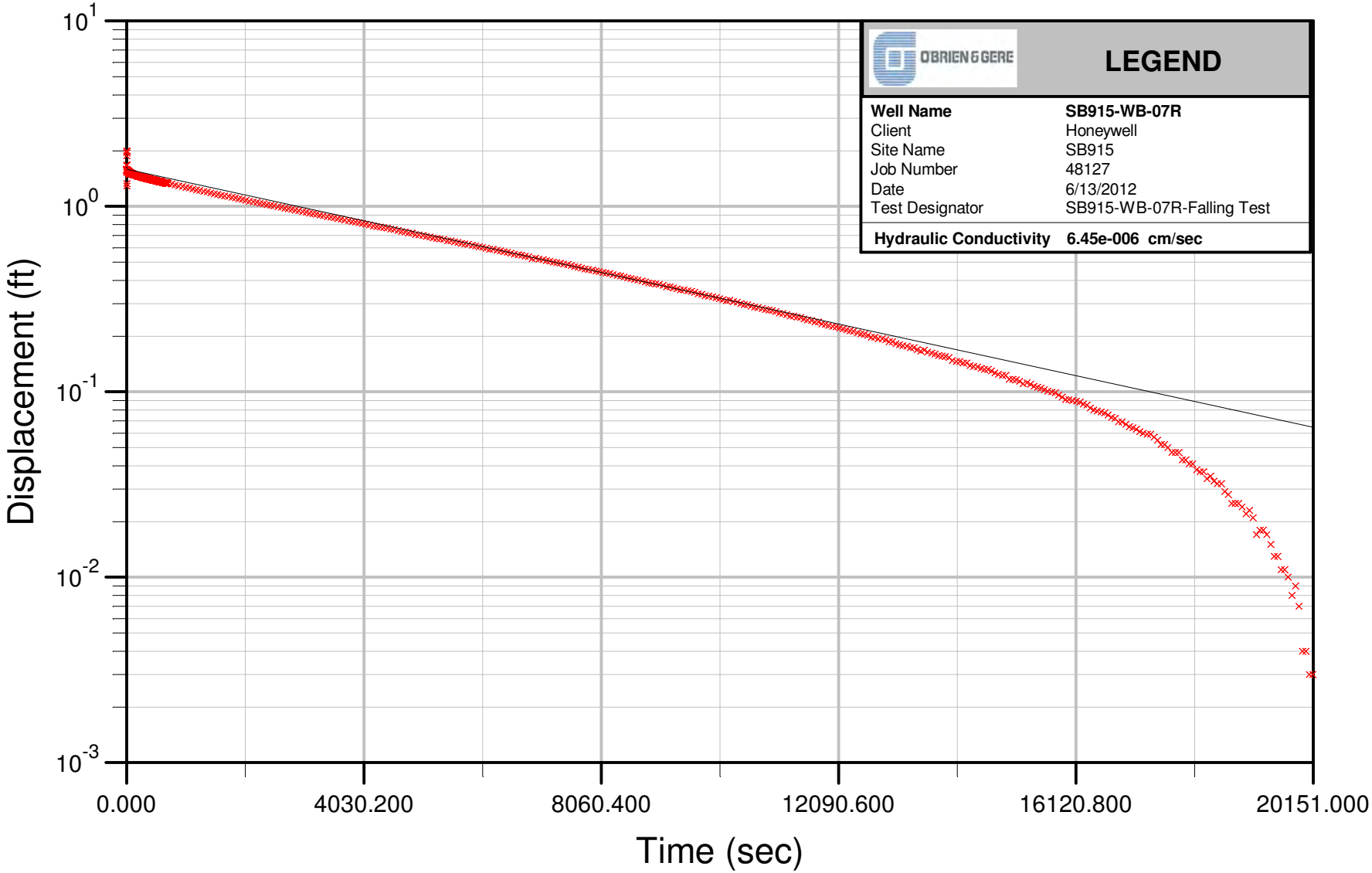
Bouwer & Rice


LEGEND
Well Name SB915-WB-07L
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/5/2012
Test Designator SB915-WB-07L-Falling Test
Hydraulic Conductivity 6.14e-003 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
20.8
41.6
62.4
83.2
104.0
Time (sec)

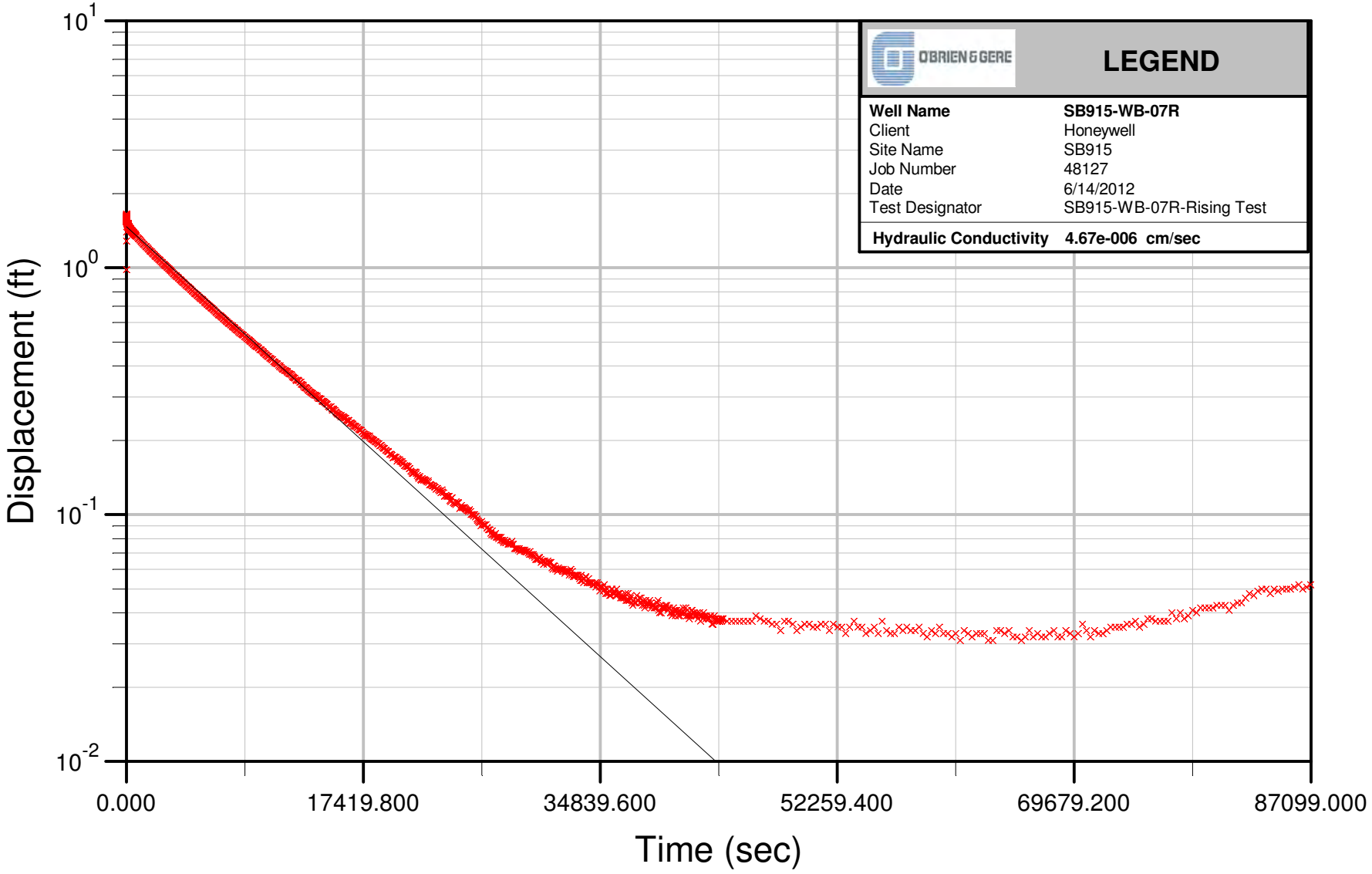
Bouwer & Rice


LEGEND
Well Name SB915-WB-07L
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/5/2012
Test Designator SB915-WB-07L-Rising Test
Hydraulic Conductivity 5.95e-003 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.000
4030.200
8060.400
12090.600
16120.800
20151.000
Time (sec)

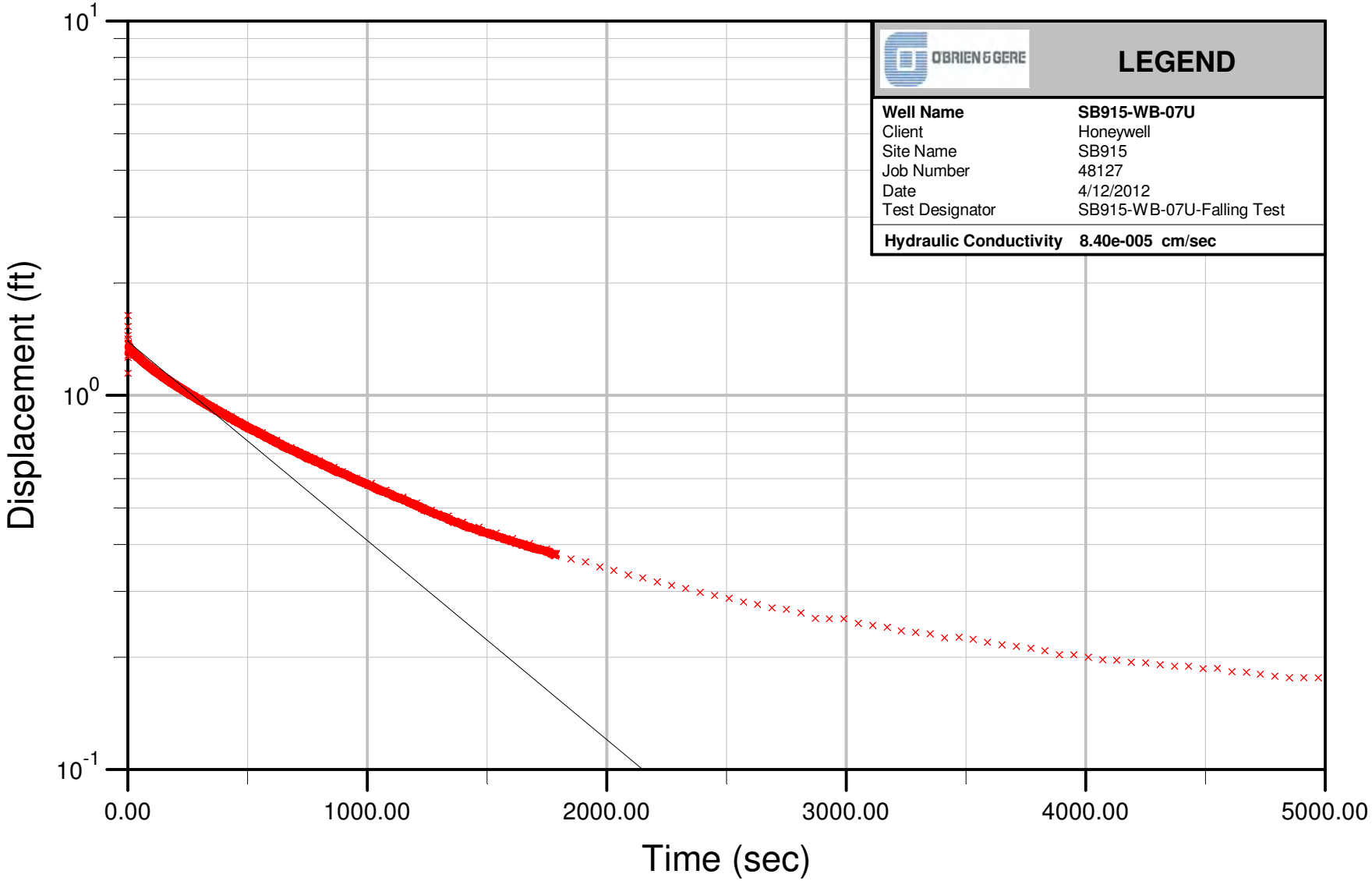
Bouwer & Rice


LEGEND
Well Name SB915-WB-07R
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/13/2012
Test Designator SB915-WB-07R-Falling Test
Hydraulic Conductivity 6.45e-006 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
0.000
4030.200
8060.400
12090.600
16120.800
20151.000
Time (sec)

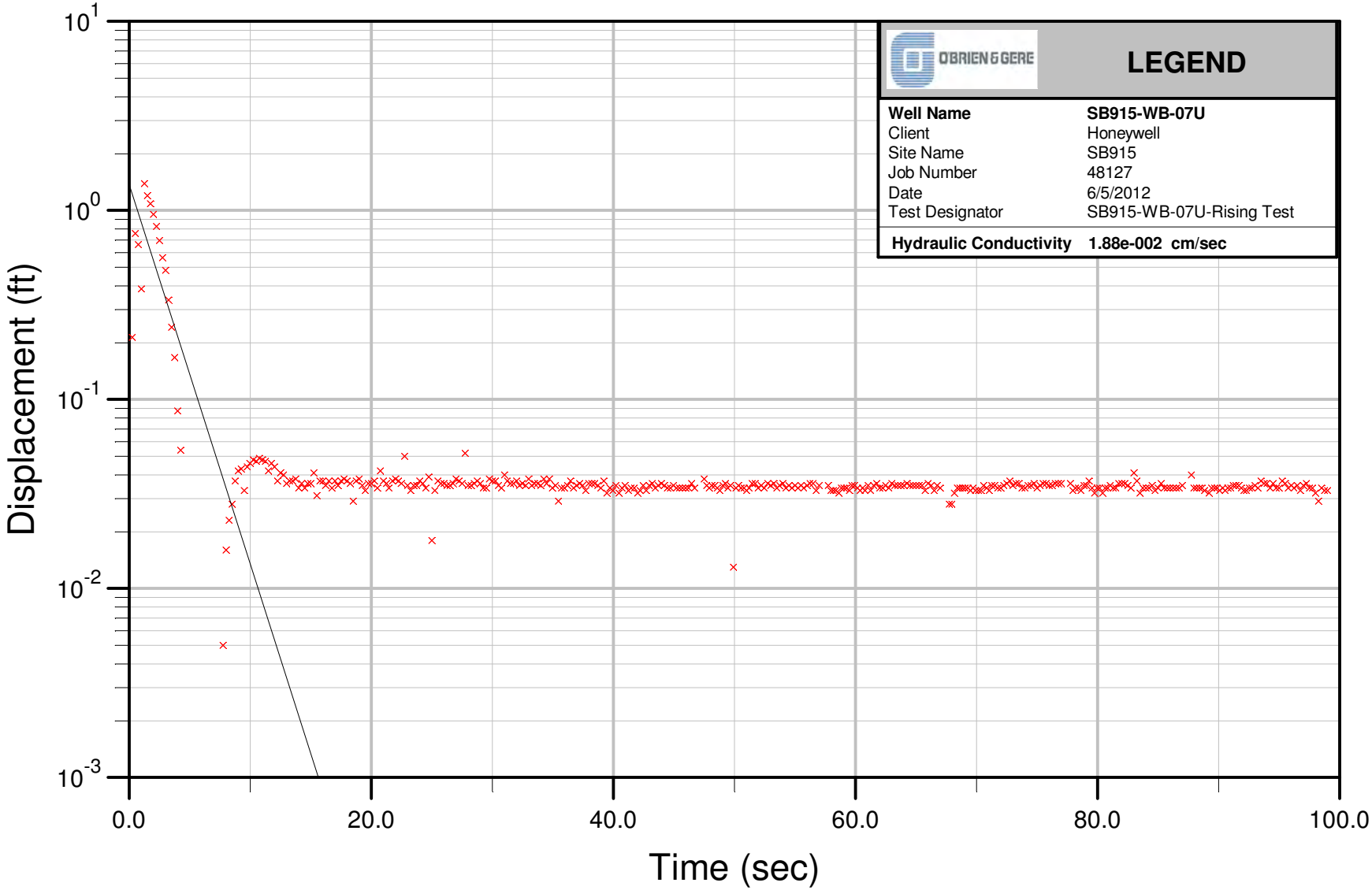
Bouwer & Rice


LEGEND
Well Name SB915-WB-07R
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/14/2012
Test Designator SB915-WB-07R-Rising Test
Hydraulic Conductivity 4.67e-006 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.000
17419.800
34839.600
52259.400
69679.200
87099.000
Time (sec)

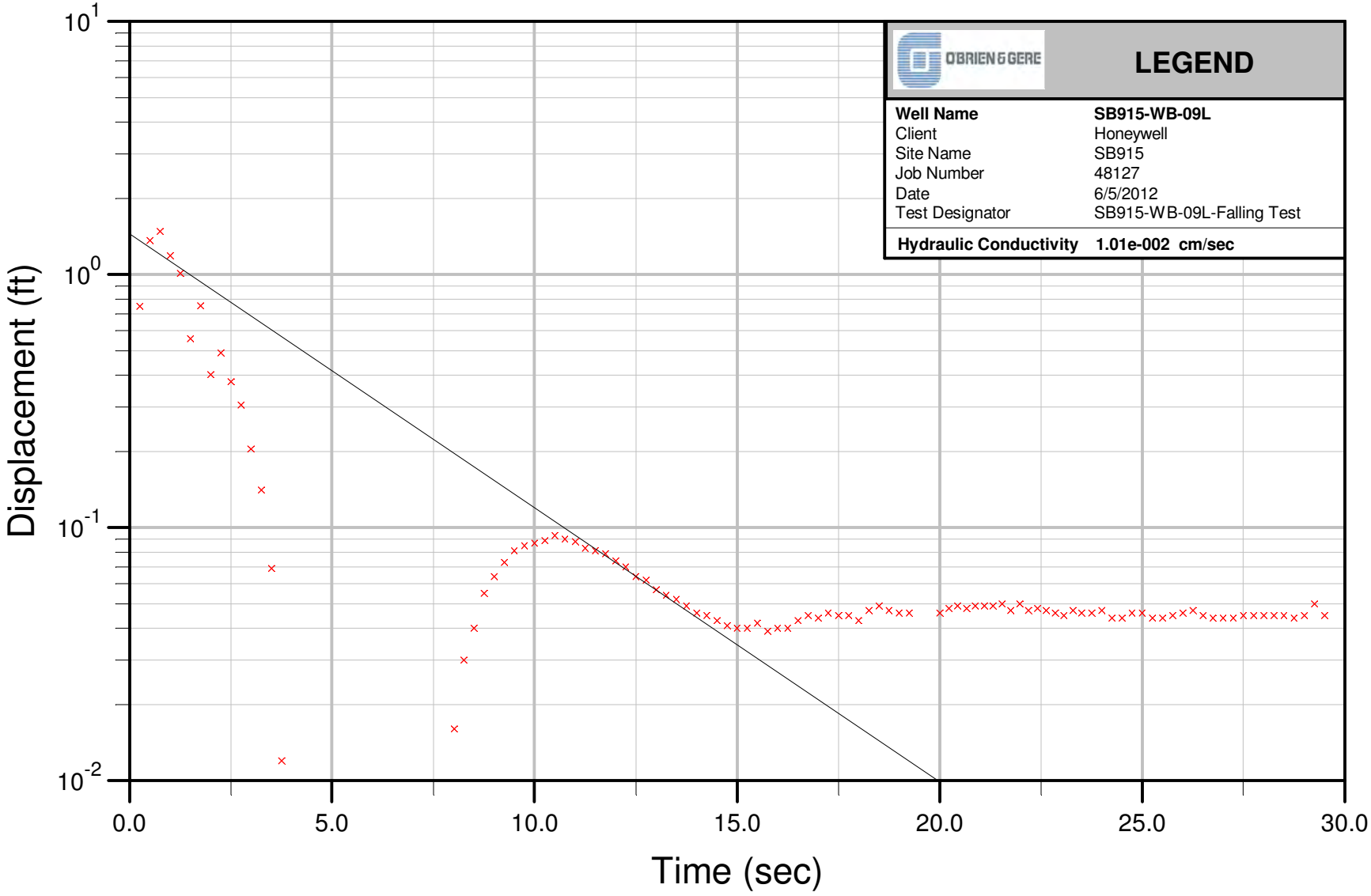
Bouwer & Rice


LEGEND
Well Name SB915-WB-07U
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/12/2012
Test Designator SB915-WB-07U-Falling Test
Hydraulic Conductivity 8.40e-005 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
1000.00
2000.00
3000.00
4000.00
5000.00

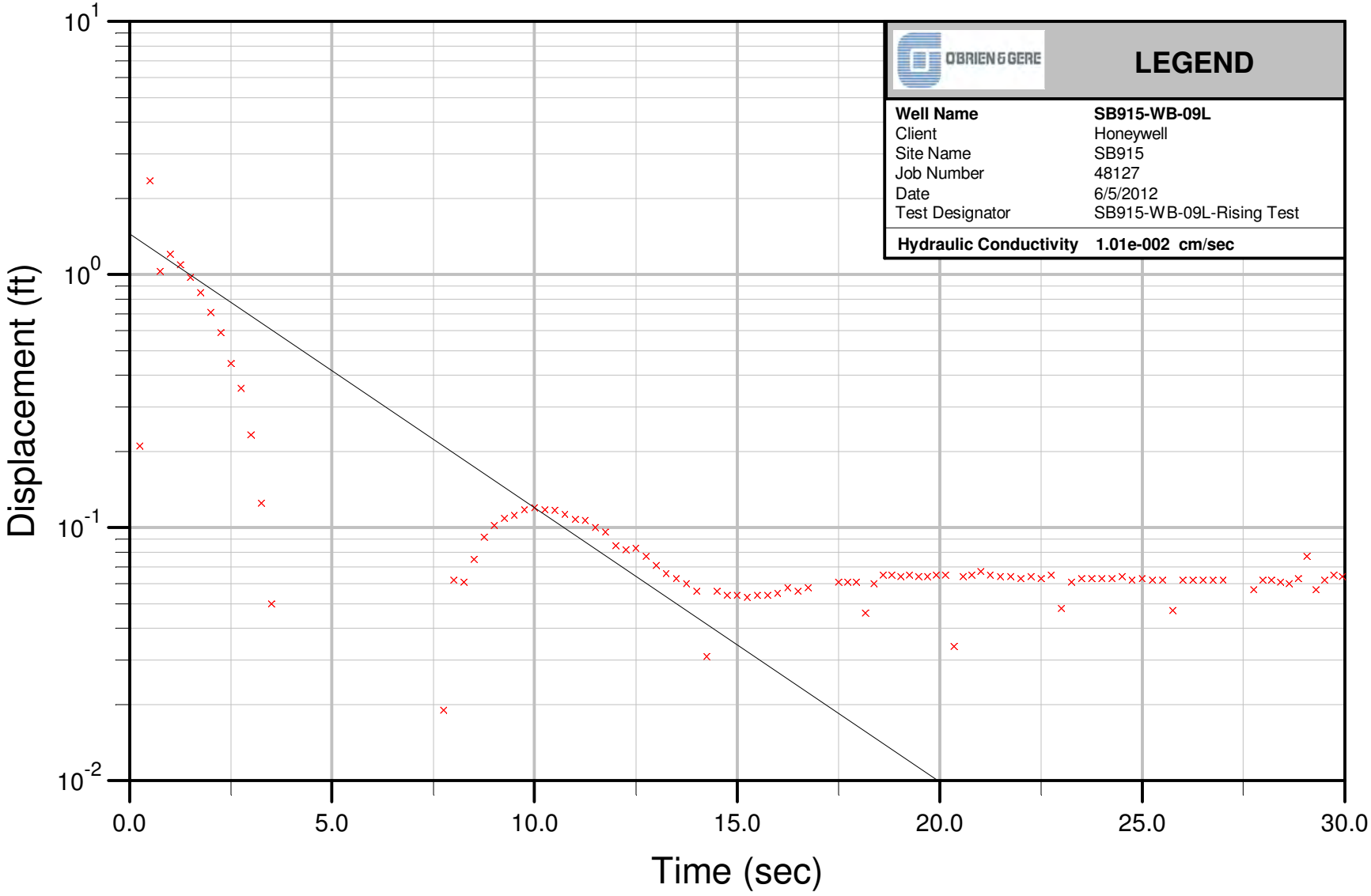
Bouwer & Rice


LEGEND
Well Name SB915-WB-07U
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/5/2012
Test Designator SB915-WB-07U-Rising Test
Hydraulic Conductivity 1.88e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.0
20.0
40.0
60.0
80.0
100.0

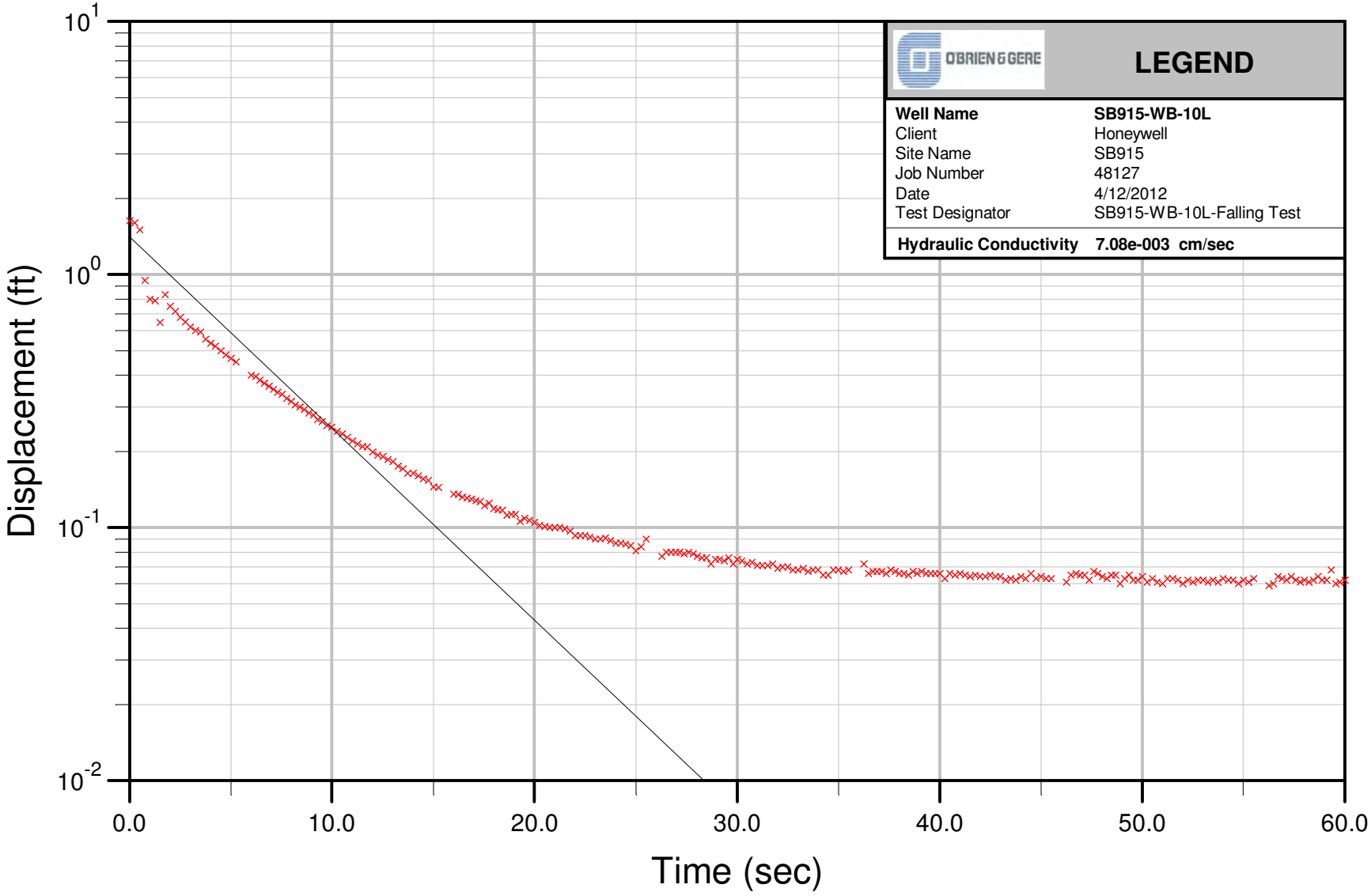
Bouwer & Rice


LEGEND
Well Name SB915-WB-09L
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/5/2012
Test Designator SB915-WB-09L-Falling Test
Hydraulic Conductivity 1.01e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
5.0
10.0
15.0
20.0
25.0
30.0

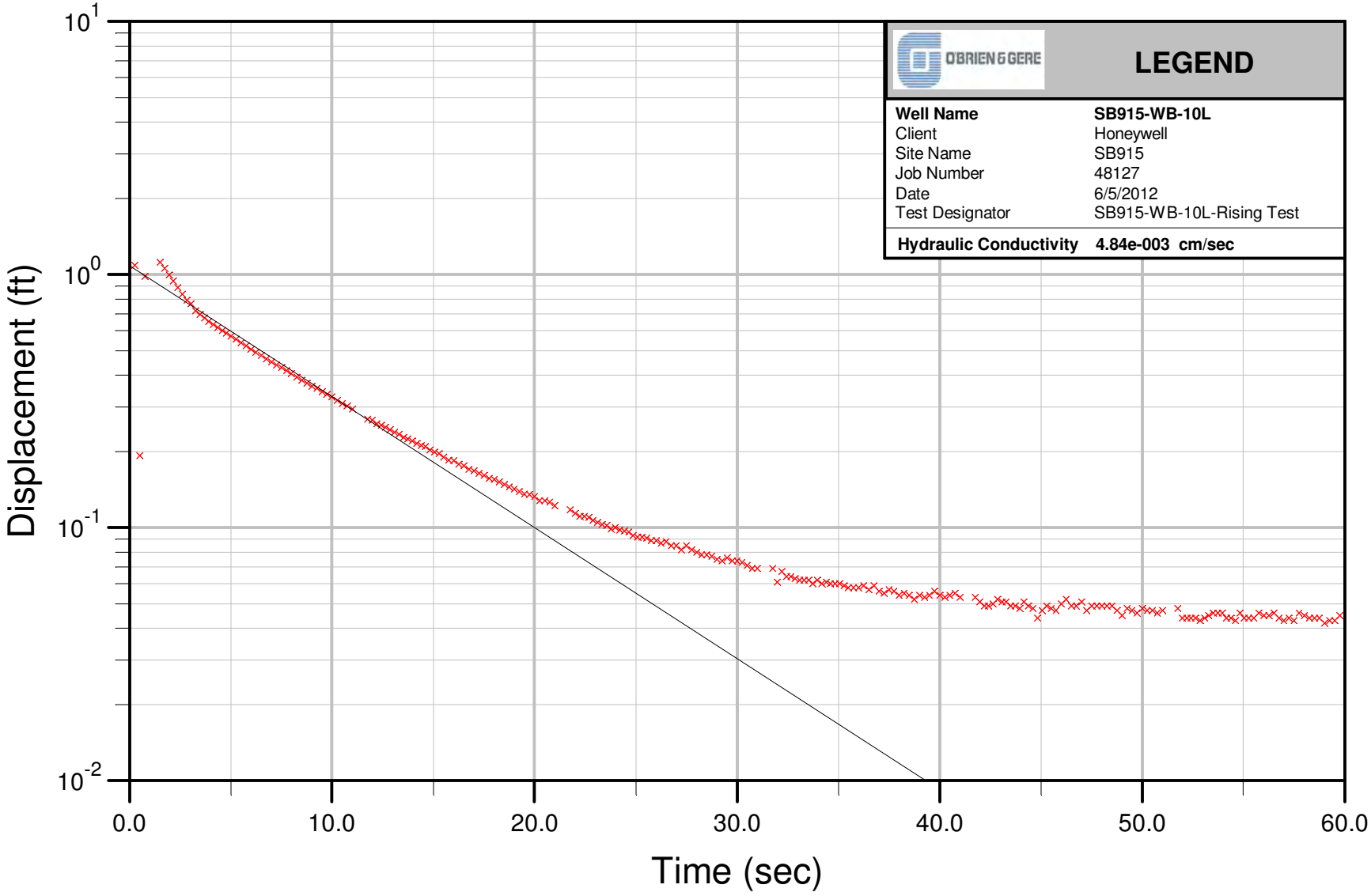
Bouwer & Rice


LEGEND
Well Name SB915-WB-09L
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/5/2012
Test Designator SB915-WB-09L-Rising Test
Hydraulic Conductivity 1.01e-002 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
5.0
10.0
15.0
20.0
25.0
30.0

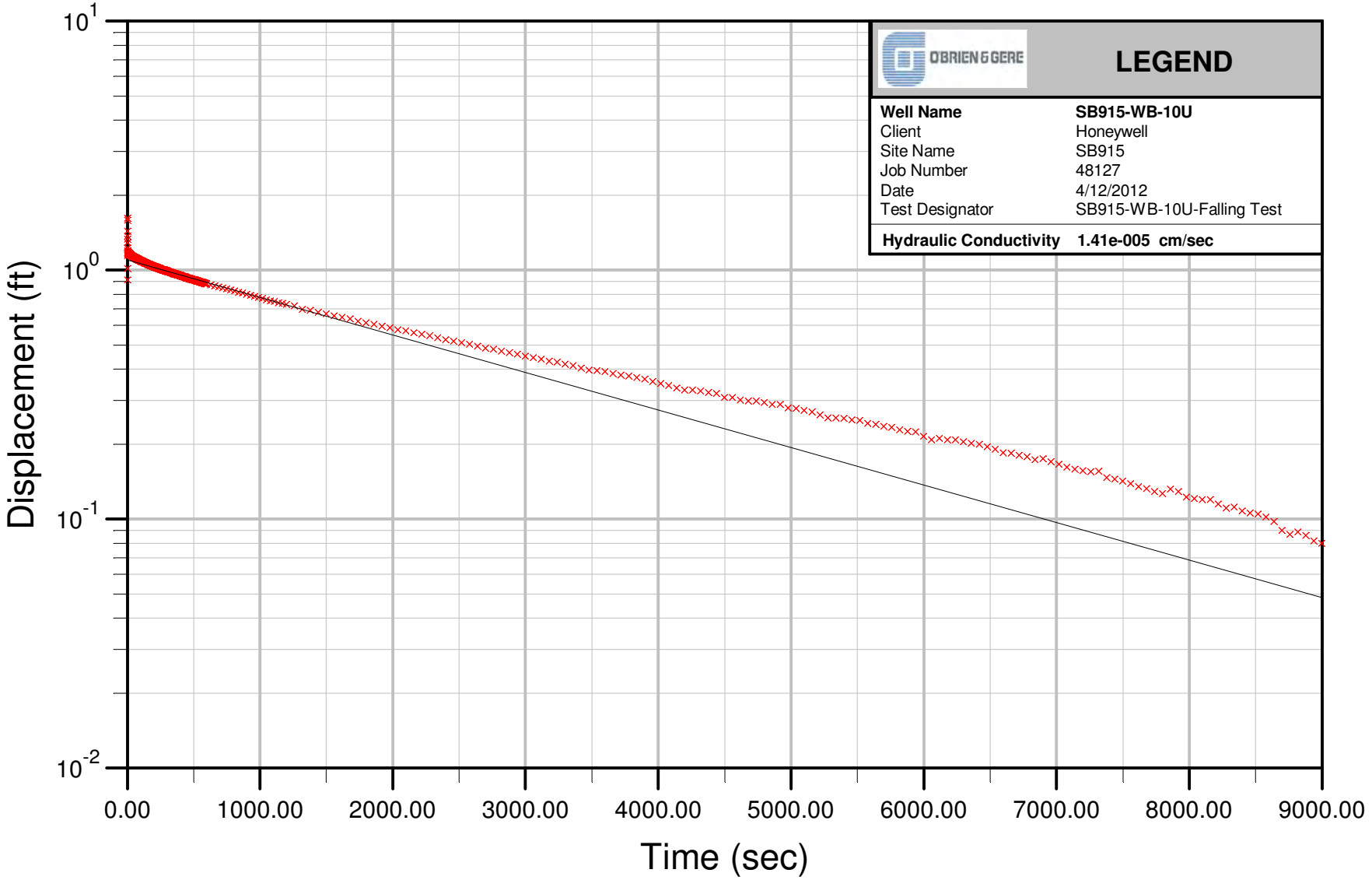
Bouwer & Rice


LEGEND
Well Name SB915-WB-10L
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/12/2012
Test Designator SB915-WB-10L-Falling Test
Hydraulic Conductivity 7.08e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
10.0
20.0
30.0
40.0
50.0
60.0

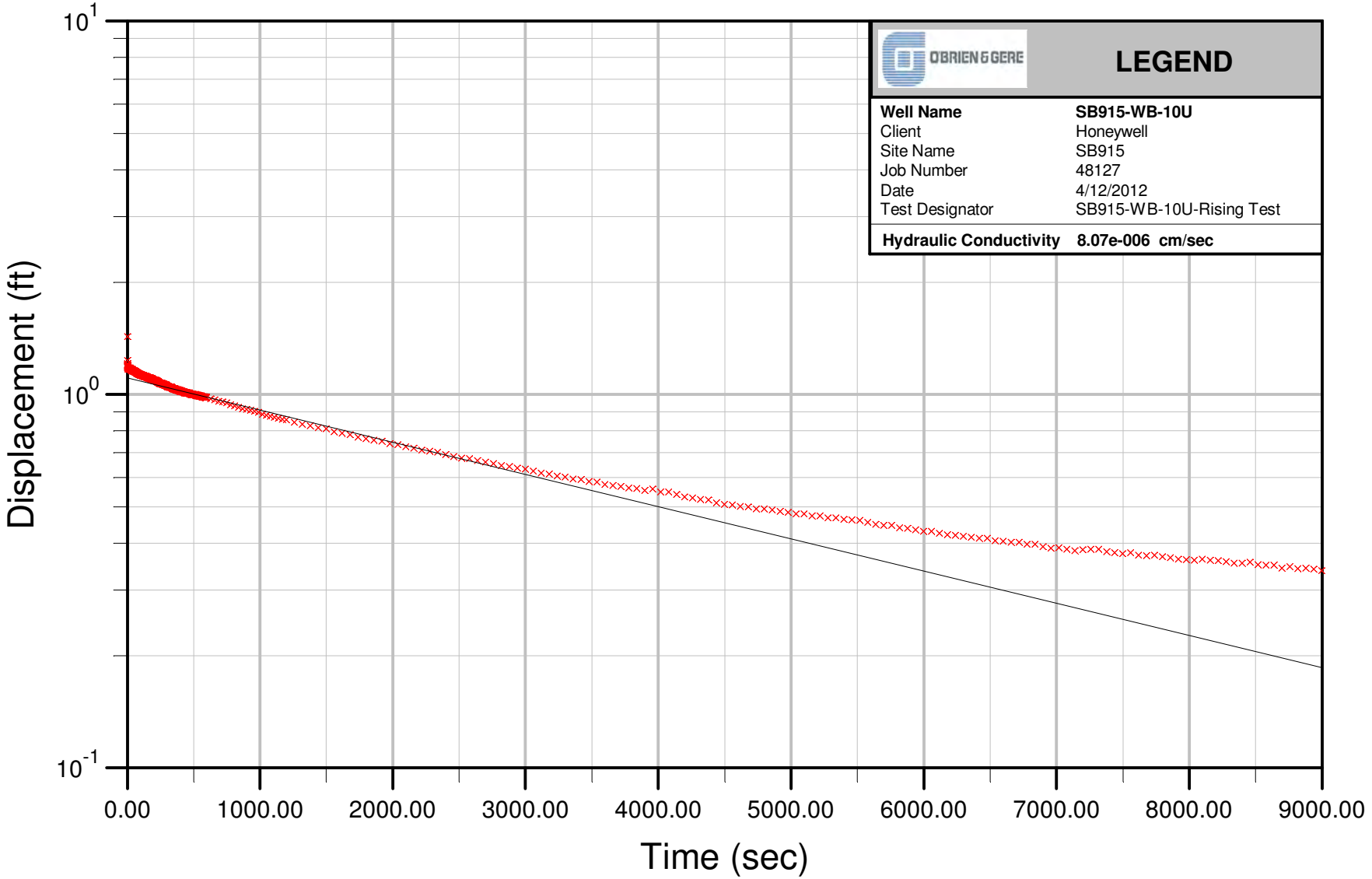
Bouwer & Rice


LEGEND
Well Name SB915-WB-10L
Client Honeywell
Site Name SB915
Job Number 48127
Date 6/5/2012
Test Designator SB915-WB-10L-Rising Test
Hydraulic Conductivity 4.84e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.0
10.0
20.0
30.0
40.0
50.0
60.0

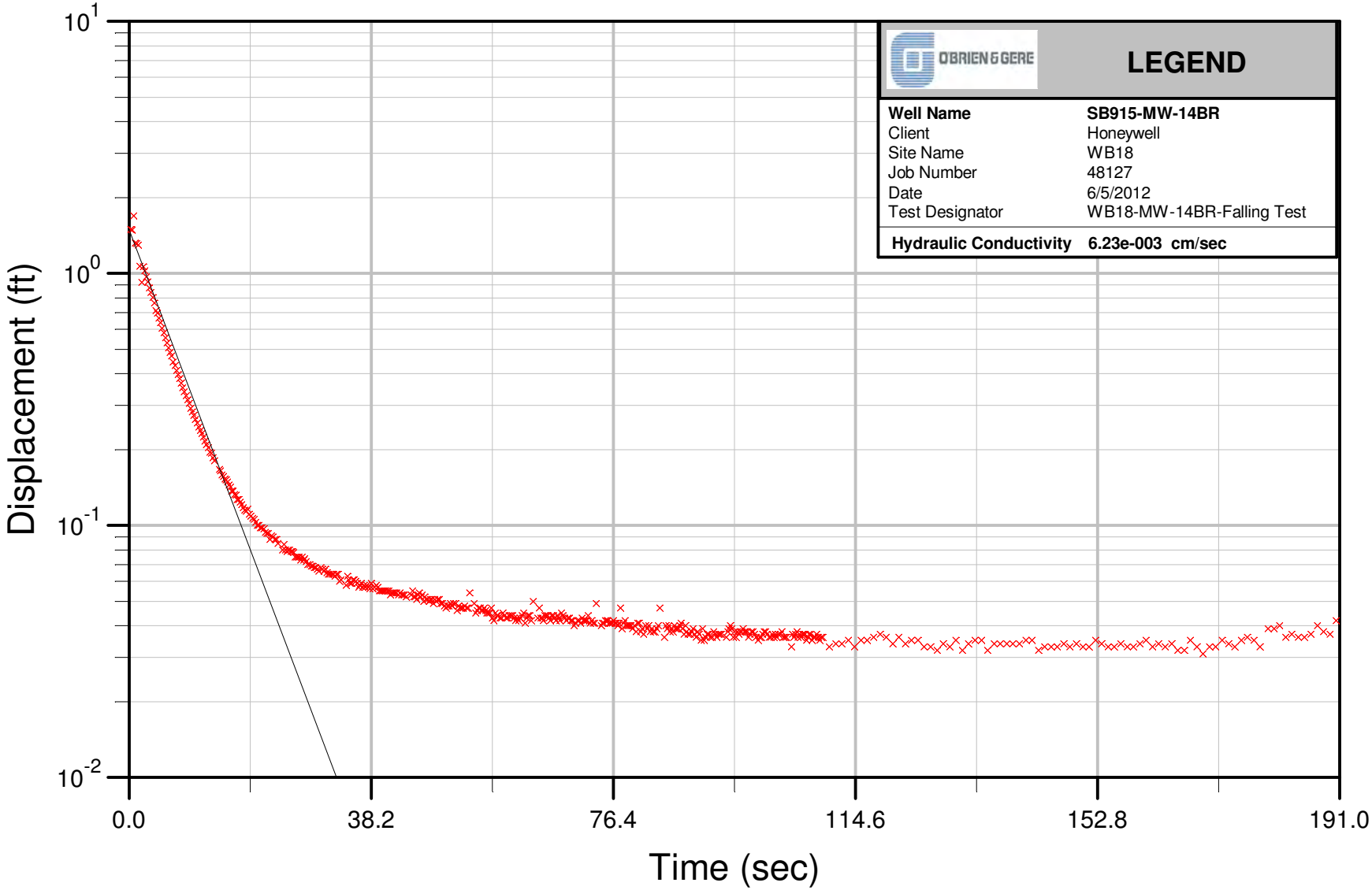
Bouwer & Rice


LEGEND
Well Name SB915-WB-10U
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/12/2012
Test Designator SB915-WB-10U-Falling Test
Hydraulic Conductivity 1.41e-005 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
0.00
1000.00
2000.00
3000.00
4000.00
5000.00
6000.00
7000.00
8000.00
9000.00

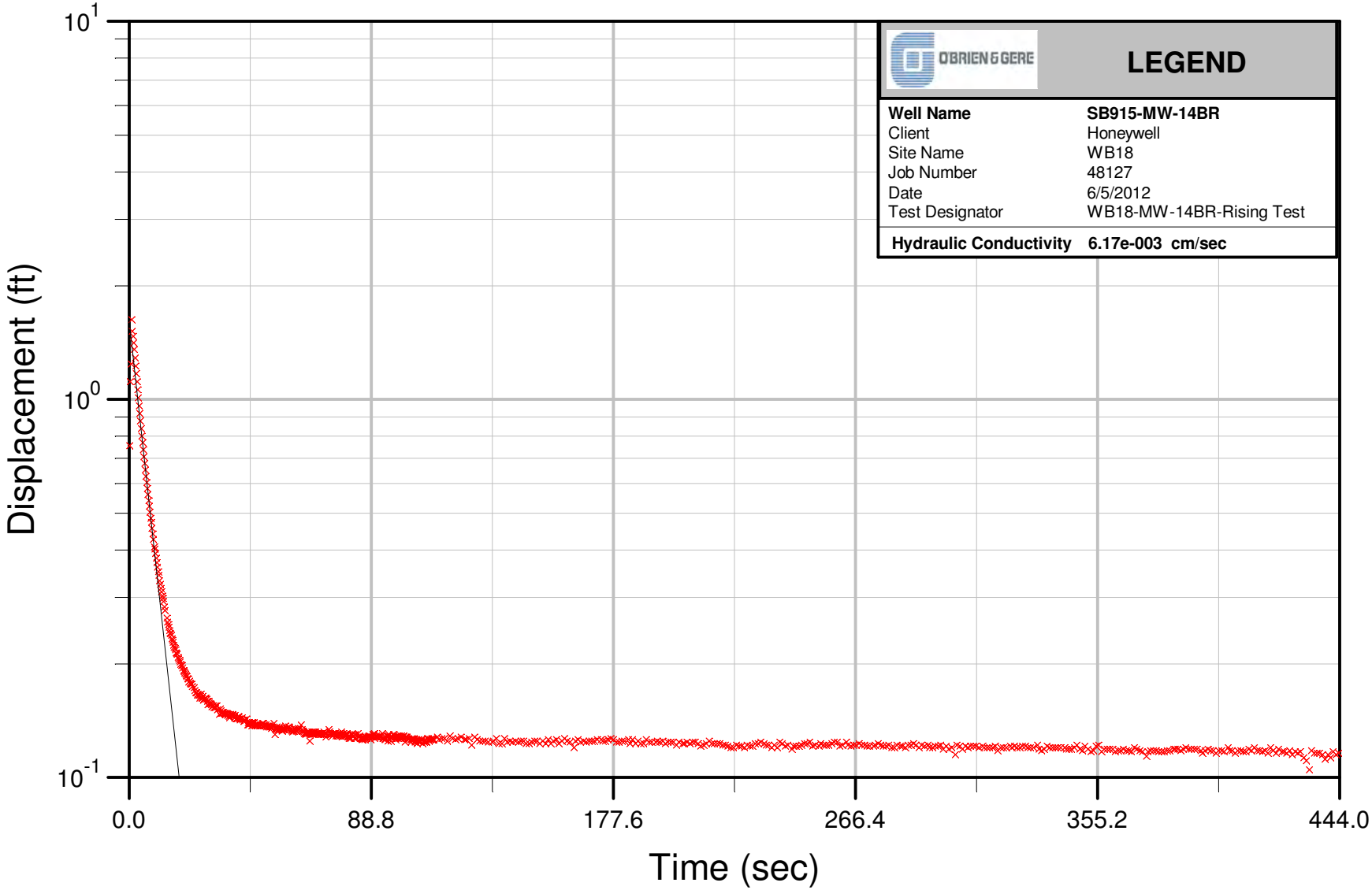
Bouwer & Rice


LEGEND
Well Name SB915-WB-10U
Client Honeywell
Site Name SB915
Job Number 48127
Date 4/12/2012
Test Designator SB915-WB-10U-Rising Test
Hydraulic Conductivity 8.07e-006 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
0.00
1000.00
2000.00
3000.00
4000.00
5000.00
6000.00
7000.00
8000.00
9000.00

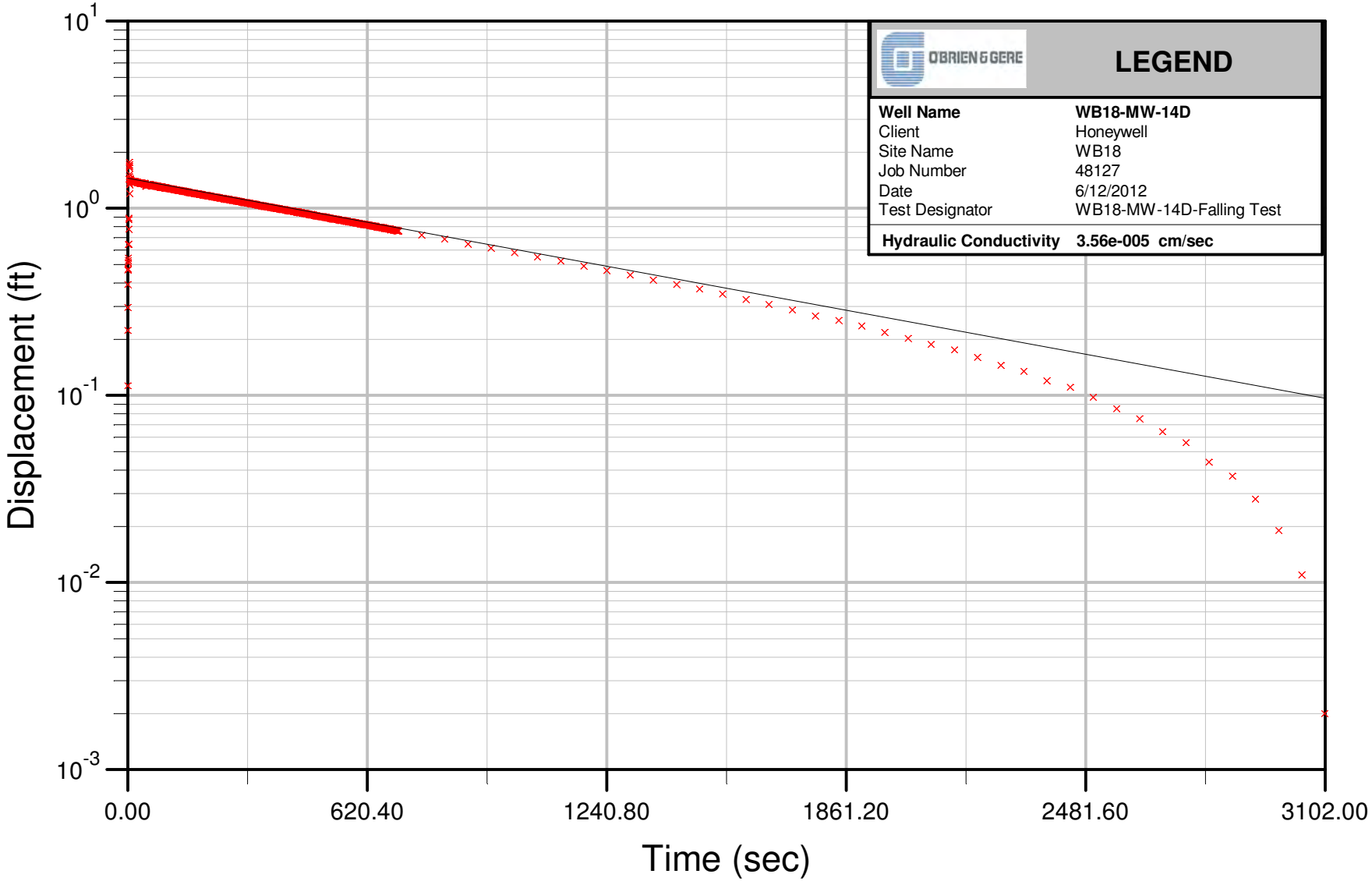
Bouwer & Rice


LEGEND
Well Name SB915-MW-14BR
Client Honeywell
Site Name WB18
Job Number 48127
Date 6/5/2012
Test Designator WB18-MW-14BR-Falling Test
Hydraulic Conductivity 6.23e-003 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.0
38.2
76.4
114.6
152.8
191.0
Time (sec)

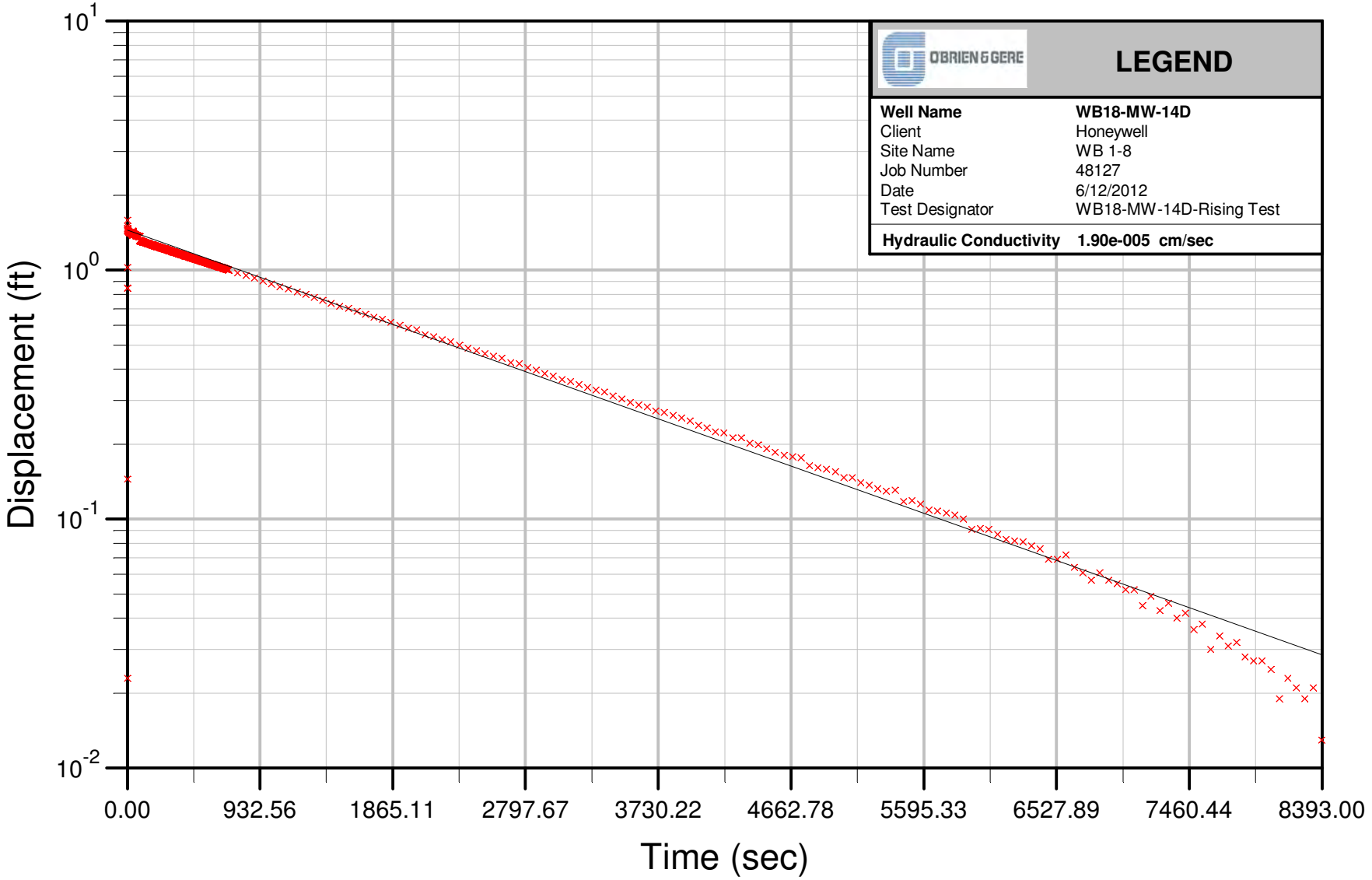
Bouwer & Rice


LEGEND
Well Name SB915-MW-14BR
Client Honeywell
Site Name WB18
Job Number 48127
Date 6/5/2012
Test Designator WB18-MW-14BR-Rising Test
Hydraulic Conductivity 6.17e-003 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^{-1}
0.0
88.8
177.6
266.4
355.2
444.0

Bouwer & Rice


LEGEND
Well Name WB18-MW-14D
Client Honeywell
Site Name WB18
Job Number 48127
Date 6/12/2012
Test Designator WB18-MW-14D-Falling Test
Hydraulic Conductivity 3.56e-005 cm/sec
Displacement (ft)
Time (sec)
10^1
10^0
10^-1
10^-2
10^-3
0.00
620.40
1240.80
1861.20
2481.60
3102.00

Bouwer & Rice


LEGEND
Well Name WB18-MW-14D
Client Honeywell
Site Name WB 1-8
Job Number 48127
Date 6/12/2012
Test Designator WB18-MW-14D-Rising Test
Hydraulic Conductivity 1.90e-005 cm/sec
Displacement (ft)
10^{1}
10^{0}
10^{-1}
10^{-2}
0.00
932.56
1865.11
2797.67
3730.22
4662.78
5595.33
6527.89
7460.44
8393.00
Time (sec)

Appendix F

Groundwater Sampling Logs (on CD at end of Appendices)

Appendix F-1

Round 1 (April, May, & June 2012) Groundwater Sampling Logs

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	6/1/12	Personnel	AKM	Weather	68° overcast / rainy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-PZ-07S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well *	10.40	ft.	
Depth to Water *	6.71	ft.	
Length of Water Column	3.69	ft.	

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

SB915-0058-03

SB915-0058-04 FD

Start Purge Time: 1020

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
~~0~~	6.75	12.31	12.13	9.31	30	1.21	61.9	300	1.004
5	6.76	11.85	12.61	9.51	10	0.15	32.7	300	1.004
10	6.76	11.48	12.86	9.64	-8	0.00	14.6	300	1.004
15	6.76	11.99	12.93	9.50	-15	0.00	12.9	340	1.004
20	6.76	12.16	12.99	9.49	-24	0.00	9.74	340	1.002
25	6.77	11.85	13.03	9.57	-33	0.00	7.24	340	1.004
30	6.77	12.05	13.06	~~9~~ 9.51	-38	0.00	6.71	340	1.004
35	6.77	11.99	13.08	~~9~~ 9.53	-44	0.00	5.39	340	1.004
40	6.77	11.85	13.10	9.57	-49	0.00	~~4~~ 3.80	340	1.004

End Purge Time: 1235

Water sample: SB915-0058-03

Time collected: 1235

Density Measurement Start 1.004 End 1.004

Total volume of purged water removed: 6.5 gallons

Physical appearance at start

Color: Clear

Odor: none

Sheen/Free Product: some small particles observed

Physical appearance at sampling

Color: Clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

* during collection of T-Cyanide, some solids passed through flow and some was collected inadvertently in bottles.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — **Low Flow Ground Water Sampling Log**

Date	6/1/12	Personnel	KJK	Weather	Rain ~70°F
Site Name	SB915 Closure	Evacuation Method	Ground fos	Well #	SB915-P2-07I
Site Location	Camillus, NY	Sampling Method	Ground fos	Project #	48127

Well Information:

Depth of Well *	42.10	ft.
Depth to Water *	25.13	ft.
Length of Water Column	16.97	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1020

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	26.64	14.47	12.14	63.0	-120	1.28	48.9	600	1.026
5	26.71	13.73	12.33	67.2	-204	0.00	28.2	360	1.032
10	26.78	14.45	12.32	64.4	-210	0.00	37.1	360	1.032
15	26.73	14.81	12.29	67.8	-213	0.00	21.8	360	1.032
20	26.73	14.93	12.28	69.5	-214	0.00	19.5	360	1.032
25	26.73	15.06	12.27	70.8	-216	0.00	14.5	340	1.032
30	26.75	15.13	12.26	71.9	-217	0.00	10.3	340	1.032

End Purge Time: 1050

Water sample:

Time collected: 1241

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.026 End 1.032

Total volume of purged water removed: 3 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0058-02

SB915-0058-05 (MS)

SB915-0058-06 (MSD)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	6/1/12	Personnel	JAK	Weather	overcast ~60°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-B2-07D
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	65.11	ft.
Depth to Water *	32.92	ft.
Length of Water Column	32.19	ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1015

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	34.63	14.95	12.27	36.7	-83	5.66	19.0	200	
5	34.65	14.37	12.59	64.1	-147	0.16	49.2	100	1.024
10	34.80	14.23	12.80	70.2	-196	0.00	47.6	100	1.030
15	35.07	14.13	12.87	70.0	-201	0.00	40.6	100	1.032
20	35.31	13.93	12.89	69.0	-196	0.00	41.3	100	1.030
25	35.75	14.32	12.89	65.4	-181	0.00	32.4	100	1.030
30	35.78	14.31	12.90	65.1	-182	0.00	24.3	100	
35	35.93	14.45	12.90	64.1	-180	0.00	21.2	100	1.030
40	36.03	14.49	12.91	64.0	-180	0.00	20.4	100	

End Purge Time: 1205

Water sample:

Time collected: 1205

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.024 End 1.030

Total volume of purged water removed: ~2 gal

Physical appearance at sampling

Color: Clear

Odor: No

Sheen/Free Product: No

SB915-0058-01

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5/30/12	Personnel	JWB, EBR, AKM, KJK	Weather	~70°F Sun/clouds
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-~~MW5~~WB-03L
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	48127

Well Information:

Depth of Well * _____ ft.

Depth to Water * 28.25 ft.

Length of Water Column _____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1110

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	~~28.04~~ 28.60	18.04	11.33	15.6	19	3.00	77	380	1.012
5	28.62	16.32	9.78	25.2	-240	0.00	14.6	420	1.015
10	28.62	13.80	8.24	36.7	-128	0.00	4.06	368	1.022
15	28.62	13.09	7.66	39.1	-99	0.00	3.51	360	1.024
20	28.62	13.21	7.36	43.2	-90	0.00	4.52	340	1.026
25	28.62	12.88	7.16	45.5	-88	0.00	3.03	340	1.028
30	28.62	12.26	7.04	47.0	-85	0.00	2.71	320	1.030
35	28.62	12.26	6.95	47.3	-84	0.00	2.65	320	1.030
40	28.62	12.03	6.89	47.7	-83	0.00	3.04	300	1.030
43	28.62	12.00	6.86	47.9	-82	0.00	2.92	320	1.030
46	28.62	11.98	6.86	48.1	-82	0.00	4.21	320	1.030

End Purge Time: _____

Water sample:

Time collected: 1300

Physical appearance at start

Color clear

Odor no

Sheen/Free Product no

Density Measurement Start 1.012 End 1.030

Total volume of purged water removed: 4.5 gallons

Physical appearance at sampling

Color clear

Odor no

Sheen/Free Product no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-6057-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/31/12	Personnel	JAK	Weather	Sunny ~60°F
Site Name	SB915 Closure	Evacuation Method	peristaltk pump	Well #	SB915-MW-36S
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well Information:

Depth of Well *	20.63	ft.
Depth to Water *	13.69	ft.
Length of Water Column	6.94	ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1005

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	13.81	16.66	13.03	5.79	-14	3.25	22.9	200	
5	13.80	15.00	13.09	5.86	-30	1.83	12.1	~~200~~	1.002
10	13.81	14.07	13.15	5.88	-39	1.12	6.80	220	1.002
15	13.81	13.69	13.23	5.90	-46	0.45	5.08	220	1.002
20	13.81	13.45	13.27	5.94	-50	0.95	3.68	220	
25	13.81	13.17	13.30	5.96	-49	0.70	3.93	220	1.002
30	13.81	13.01	13.32	5.96	-48	0.09	4.19	220	
35	13.82	12.87	13.34	5.97	-47	0.00	4.23	230	1.002
40	13.82	12.83	13.35	5.99	-47	0.00	3.23	230	
45	13.82	12.91	13.36	5.99	-48	0.00	3.66	220	1.002
50	13.82	12.69	13.37	6.00	-49	0.00	2.86	220	

End Purge Time: 1055

Water sample:

Time collected: 1230

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed: 5.0 gal

Physical appearance at sampling

Color: clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0057-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5/31/12	Personnel	Logan Reid	Weather	72°F, Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-36I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	64.52	ft.
Depth to Water *	14.62	ft.
Length of Water Column	49.90	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 10:15

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	14.62	16.97	11.53	6.90	-34	2.36	89.5	260	1.004
5	14.62	18.72	11.92	6.73	-48	1.08	14.2	150	
10	14.62	16.33	12.66	6.97	-61	0.76	10.2	400	
15	14.62	17.20	12.72	6.91	-66	0.61	7.37	200	1.002
20	14.62	18.18	12.78	6.81	-73	0.55	5.76	180	
25	14.62	18.20	12.85	6.80	-80	0.56	4.37	180	
30	14.62	18.20	12.86	6.83	-82	0.59	3.99	180	1.004
35	14.62	18.19	12.84	6.83	-82	0.58	3.81	180	
40	14.62	18.03	12.94	6.83	-84	0.57	3.66	200	
45	14.62	18.01	12.95	6.86	-85	0.60	3.22	200	1.004
50	14.62	18.01	12.94	6.87	-85	0.59	2.83	200	

End Purge Time: 11:05

Water sample:

Time collected: 1243

Physical appearance at start

Color: Clear
Odor: no
Sheen/Free Product: no

Density Measurement Start 1.004 End 1.004

Total volume of purged water removed: ~5gallons

Physical appearance at sampling

Color: Clear
Odor: no
Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron:	-
Dissolved total iron:	-
Dissolved total manganese:	-
Dissolved Oxygen:	-

SB915-0057-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date		Personnel		Weather	
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-36D
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well Information:

Depth of Well *	119.55	ft.	* Measurements taken from
Depth to Water *	81.53	ft.	Top of Well Casing
Length of Water Column		ft.	X Top of Protective Casing
			(Other, Specify)

X Obstruction in well @ ~76' bTOC looks to be grating

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5/30/12	Personnel	Logan Reid	Weather	76°F, Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-03
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well *	36.33	ft.
Depth to Water *	7.22	ft.
Length of Water Column	29.11	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 09:55

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	7.22	20.57	6.71	11.3	-14	3.41	11.5	260	1.008
5	7.22	18.04	6.55	13.5	-71	0.00	8.70	300	
10	7.22	16.92	6.59	14.0	-78	0.00	13.7	300	1.010
15	7.22	16.20	6.61	14.2	-83	0.00	12.0	320	1.010
20	7.22	15.74	6.62	14.4	-85	0.00	10.5	300	1.010
25	7.22	15.50	6.63	14.5	-87	0.00	9.17	320	1.010
30	7.22	15.19	6.63	14.7	-89	0.00	9.88	340	
35	7.22	15.15	6.63	14.7	-90	0.00	6.71	340	1.010
40	7.22	15.12	6.63	14.7	-90	0.00	7.82	340	

End Purge Time: 10:40

Water sample:

Time collected: 1325

Density Measurement Start 1.008 End 1.010

Total volume of purged water removed: 9.5 gal

Physical appearance at start

Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling

Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0056-01
SB915-0056-03 (MS)
SB915-0056-04 (MSD)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/25/12 - 5/30/12	Personnel	Logan Reid	Weather	
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-04
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 21.80 ft:
Depth to Water * 5.89 ft.
Length of Water Column 15.91 ft.
1x well Volum : 2.5 gallons

* Measurements taken from
X Top of Well Casing
Top of Protective Casing
(Other, Specify)

Start Purge Time: 10:50

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	5.90							~~150~~ 100	
6	7.91	20.47	6.20	36.4	-22	0.00	55.0	100	
10	8.38	19.63	6.19	36.0	-25	0.00	25.8	150	1.018
15	8.43	19.74	6.18	36.1	-25	0.00	56.3	75	
20~~5~~	9.13						48.3	175	
5/29/12	6.04	Setting up Peristaltic pump.							
		- Pumping at ~150 ml/min DTW dropped to 8.75							
		- will purge dry & sample on 5/30/12							
	@1200	- Pumping @ 140 ml/min & DTW @ 12.99 & stabilized							
	1215	- Purged ~8 gallons (3 well volumes) DTW @ 14.50							
5/30/12	1000	DTW: 5.92							
		Purging using peristaltic pump							
		Filling sample bottles already removed			3X well Volume				

End Purge Time: 11:22

Water sample: SB915-0056-02
Time collected: 1215 5/30/12

Density Measurement Start 1.018 End 1.010
Total volume of purged water removed: 8 gallons

Physical appearance at start
Color: Clear
Odor: no
Sheen/Free Product: no

Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/29/12	Personnel	JAK	Weather	Sunny - 75°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW2-1045
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well Information:

Depth of Well *	25.93	ft.
Depth to Water *	8.40	ft.
Length of Water Column	17.53	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1005

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.92	23.32	5.78	81.6	-7	0.00	147	260	1.064
5	9.18	22.94	5.73	86.5	-19	0.00	170	100	1.066
10	9.42	22.87	5.73	87.3	-20	0.00	189	50	
5/30/12	DTW: 7.69								
	Removing 10 gallons to remove a total of 8.5 gallons (3x well volume)								
	Using peristaltic pump to fill sample bottles								

End Purge Time:

Water sample:

Time collected: 1215 on 5/30/12

Physical appearance at start

Color: Light brown

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.066 End 1.066

Total volume of purged water removed: 7.5 gals - well went dry

Physical appearance at sampling

Color: Light brown

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

* water continued to drop. Will remove 3 well volumes or purge until dry

2.85 x 3 = 8.5 gals

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/25/12	Personnel	KSK	Weather	Sunny ~75°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-01
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well Information:

Depth of Well * 18.34 ft.

Depth to Water * ~~11.76~~ 12.00 ft. 5/29/12 12.53

Length of Water Column 6.68 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0945

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
10	12.50	16.31	6.78	0.817	112	0.00	25.1	100	1.002
15	12.63	16.73	6.76	0.825	110	0.00	20.7	150	1.002
20	12.74	17.27	6.77	0.825	105	0.00	18.6	100	1.000
25	12.80	19.55	6.78	0.803	97	0.00	13.0	75	1.000
30	12.81	19.78	6.79	0.818	95	0.00	11.9	50	0.998
35	12.85	20.84	6.80	0.815	93	0.00	15.7	100	0.998
	Started to collected	sample - VOC's and	Pump	failed	with pump #1				
1125am	13.03	25.82	6.99	0.872	122	0.00	64.4	100	0.998
1130am	13.20	25.02	6.92	0.876	127	0.00	55.9	200	0.998
1135am	13.21	25.22	6.90	0.898	129	0.00	46.2	100	0.998
1200pm	Changed control Box								
	Unable to collect full Sample								
5/29/12									
	Baled well to collect remainder of sample. Recollected VOC's and Methyl mercury.								

End Purge Time: 1020

Water sample:

Time collected: 1105

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.002 End Unknown

Total volume of purged water removed:

Physical appearance at sampling

Color: Light Brown

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5/29/12	Personnel	Logan Reid	Weather	88°F, Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-105BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 64.9 ~~64.9~~ (D) ft.

Depth to Water * 52.2 ft.

Length of Water Column 12.7 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 11:25

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	52.5	19.11	5.84	0.771	169	0.93	126	500	1.002
5	52.7	17.00	5.93	0.799	93	0.18	63.7	450	
10	52.7	16.59	6.09	0.806	8	0.00	42.6	440	1.002
15	52.7	16.00	6.28	0.811	-27	0.00	34.3	440	
20	52.7	15.25	6.43	0.819	-45	0.00	24.3	440	1.002
25	52.7	15.43	6.48	0.812	-52	0.00	23.7	440	
30	52.7	15.41	6.55	0.805	-58	0.00	15.7	440	1.002
35	52.7	15.49	6.58	0.802	-61	0.00	14.6	440	
40	52.7	15.50	6.65	0.801	-67	0.00	16.6	440	1.002
45	52.7	15.53	6.65	0.800	-67	0.00	14.0	440	

End Purge Time: 12:12

Water sample:

Time collected: 12:58

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed: 9 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5/29/12	Personnel	AKM	Weather	hazy, hot, humid 86°
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-104I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well *	75.23	ft.
Depth to Water *	27.48	ft.
Length of Water Column		ft.

* Measurements taken from

- ☐ Top of Well Casing
- ☐ Top of Protective Casing
- ☐ (Other, Specify)

SB915-055-02

Start Purge Time: 1010

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	27.48	14.13	6.14	1.19	174	0.00	>1000	340	1.002
5	27.48	14.82	6.31	1.21	104	0.00	>1,000	400	1.002
10	27.48	14.88	6.47	1.22	80	0.00	>1,000	460	1.002
15	27.48	14.75	6.56	1.23	69	0.00	>1,000	440	1.002
20	27.48	14.75	6.62	1.24	103	0.00	>1,000	460	1.000
25	27.48	14.99	6.65	1.24	59	0.00	988	440	1.000
30	27.49	14.93	6.68	1.25	54	0.00	828	440	1.000
35	27.49	14.89	6.70	1.33	53	0.00	609	440	1.000
40	27.49	14.92	6.72	1.34	53	0.00	417	440	1.000
45	27.49	14.77	6.73	1.35	54	0.00	278	460	1.000
50	27.49	14.76	6.74	1.35	57	0.00	193	440	1.000
55	27.49	14.90	6.75	1.35	59	0.00	123	440	1.000
60	27.49	14.81	6.75	1.36	59	0.00	102	440	1.000
65	27.49	14.75	6.76	1.36	60	0.00	76.4	440	1.000
70	27.49	14.89	6.77	1.36	62	0.00	58.5	440	1.000
75	27.49	14.92	6.77	1.36	63	0.00	40.0	420	1.000
80	27.49	14.94	6.78	1.36	64	0.00	32.1	440	1.000
85	27.49	15.00	6.78	1.35	65	0.00	34.4	440	
90	27.49	15.09	6.79	1.36	64	0.00	23.9	420	1.000
95	27.49	15.07	6.79	1.35	64	0.00	20.5	420	1.000
100	27.49	15.04	6.80	1.36	65	0.00	24.5	440	1.000

End Purge Time: 1220

Water sample:

Time collected: 1220

Physical appearance at start

Color: murky

Odor: none

Sheen/Free Product: none

Density Measurement Start 1.002 End 1.000

Total volume of purged water removed: 10 gal

Physical appearance at sampling

Color: clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/25/12	Personnel	JAK	Weather	partly cloudy ~75°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-1165
Site Location	Camillus, NY	Sampling Method	Low-flow	Project #	48127

Well Information:

Depth of Well *	19.87	ft.
Depth to Water *	5.48	ft.
Length of Water Column	14.39	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 10:35

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	6.86	17.02	6.64	17.0	-64	0.00	>999	400	1.010
5	6.92	16.93	6.77	11.6	-82	0.00	338	200	1.008
10	6.95	17.40	6.82	9.31	-88	0.00	260	200	1.008
15	6.96	18.00	6.83	9.22	-88	0.00	157	150	
20	6.99	18.72	6.86	9.12	-86	0.00	75.5	150	1.006
25	6.98	19.53	6.88	9.07	-85	0.00	49.8	150	
30	6.97	20.49	6.88	9.29	-83	0.00	24.3	150	1.006
35	6.97	20.63	6.91	9.35	-81	0.00	16.9	150	
40	6.97	20.89	6.93	9.22	-81	0.00	13.4	150	1.006
45	6.96	21.21	6.95	9.17	-80	0.00	12.8	150	
50	6.96	21.41	6.96	9.00	-80	0.00	11.9	150	1.006
55	6.95	21.69	6.98	8.91	-79	0.00	10.9	150	
60	6.95	22.08	6.98	8.70	-77	0.00	12.0	150	1.006
65	6.95	22.41	6.99	8.57	-76	0.00	11.1	150	
70	6.94	22.68	7.00	8.47	-75	0.00	14.4	150	1.006
75	6.94	22.87	7.01	8.32	-74	0.00	13.4	150	
80	6.94	23.11	7.01	8.08	-74	0.00	13.7	150	1.006
85	6.95	23.43	7.01	8.04	-73	0.00	15.3	150	
90	6.94	23.52	7.01	8.04	-72	0.00	15.5	150	1.006

End Purge Time: 1205

SB915-0054-04

Water sample:

Time collected: 1345

Density Measurement Start 1.010 End 1.006

Total volume of purged water removed: 50 gal

Physical appearance at start

Color: Cloudy - Brown

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/25/12	Personnel	JWB	Weather	~80°F Sunny
Site Name	~~SB915 Closure~~ SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-117S
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	48127

Well information:

Depth of Well *	25.90	ft.
Depth to Water *	8.22	ft.
Length of Water Column	~~17.68~~	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1055

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	8.96	18.03	6.90	15.5	61	2.12	121	200	1.006
5	9.42	16.87	6.91	16.0	45	0.46	134	220	
10	10.41	16.10	6.87	16.2	33	0.00	163	200	
15	10.55	17.11	6.85	16.1	28	0.00	164	200	
20	10.85	17.13	6.84	16.8	26	0.00	189	200	
25	11.10	17.09	6.85	16.8	24	0.00	194	200	
30	11.40	16.93	6.85	16.8	23	0.00	257	200	
35	11.45	16.94	6.86	16.7	23	0.00	242	200	
40	11.55	16.99	6.86	16.5	22	0.00	248	200	
45	11.60	17.14	6.87	16.2	21	0.00	238	200	1.006
50	11.70	17.29	6.89	15.8	20	0.00	300	200	
55	11.73	17.29	6.89	15.8	20	0.00	232	200	
60	11.73	17.26	6.90	15.5	20	0.00	240	200	
65	11.75	17.31	6.92	15.0	20	0.00	251	200	

End Purge Time: 1313

Water sample: SB915-0054-02

Time collected: 1313

Density Measurement Start 1.006 End 1.006

Total volume of purged water removed: ~3.5 gallons

Physical appearance at start

Color: Clear

Odor: no

Sheen/Free Product: no

Physical appearance at sampling

Color: V. light brown

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. **Low Flow Ground Water Sampling Log**

Date	5/25/12	Personnel	SJW	Weather	80s/sunny
Site Name	SB915 Closure	Evacuation Method	grundfos	Well #	SB915-MW-11SBR
Site Location	Camillus, NY	Sampling Method	grundfos	Project #	48127

Well Information: SB915-0054-03

Depth of Well * 92.21 ft.

Depth to Water * 8.34 ft.

Length of Water Column ____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1025 purged into bucket first - very turbid.

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SpO
~~1020~~ ~~0~~		~~18.87~~	~~6.00~~	~~21.4~~	~~[illegible]~~	~~[illegible]~~			
1050 0	8.49	24.43	6.09	33.1	-74	1.34	over	100	1.018
5	8.53	24.22	6.06	35	-38	1.31	over	200	
10	8.51	21.13	6.05	38.7	-31	0.99	over	200	
15	8.50	21.69	6.05	40.0	-31	0.86	over	120	
20	8.55	21.56	6.06	41.8	-32	0.59	over	200	
25	8.53	21.91	6.07	41.2	-31	0.38	over	180	
30	8.55	21.93	6.06	42.6	-32	0.21	over	200	
35	8.53	21.73	6.07	44.6	-32	0.06	621	180	
40	8.55	21.94	6.08	45.3	-34	0.00	575	180	
45	8.53	22.14	6.09	45.7	-34	0.00	467	180	
50	8.53	22.18	6.09	45.6	-35	0.00	310	200	
55	8.51	22.29	6.10	45.7	-35	0.00	256	120	
60	8.54	22.37	6.09	45.7	-35	0.00	227	200	
65	8.51	22.29	6.10	46.5	-36	0.00	162	180	
70	8.53	22.40	6.09	48.1	-37	0.00	116	190	
75	8.56	22.54	6.11	47.4	-33	0.00	103	200	
80	8.52	22.58	6.11	47.4	-39	0.00	70.0	150	
85	8.54	22.62	6.11	47.8	-39	0.00	62.6	200	
90	8.55	22.52	6.12	47.1	-40	0.00	62.0	200	

End Purge Time: 1220

Water sample:

Time collected: 1323

Physical appearance at start

Color brown

Odor none

Sheen/Free Product none

Density Measurement Start 1.018 End 1.030

Total volume of purged water removed: ~12 gall

Physical appearance at sampling

Color clear

Odor none

Sheen/Free Product none

Field Test Results:

Dissolved ferrous iron: ____

Dissolved total iron: ____

Dissolved total manganese: ____

Dissolved Oxygen: ____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — **Low Flow Ground Water Sampling Log**

Date	5/24/12	Personnel	Joe K/Logan Reid	Weather	80°F, sunny
Site Name	SB915 Closure	Evacuation Method	Groundfos Pump	Well #	SB915-GWB-05M
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	64.58	ft.
Depth to Water *	19.15	ft.
Length of Water Column	45.43	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 10:32

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	19.19	15.91	6.86	52.4	-109	0.00	Overrange	320	1.018
5	19.19	16.00	6.94	32.7	-106	0.00	483 J	360	1.018
10	19.19	16.08	6.96	33.2	-99	0.00	372	300	1.016
15	19.19	15.85	6.96	33.2	-94	0.00	176	300	1.016
20	19.19	15.85	6.96	33.1	-91	0.00	83.0	360	1.016
25	19.19	15.68	6.96	33.6	-89	0.00	39.5	360	1.016
30	19.19	15.780	6.95	33.3	-89	0.00	25.8	340	1.016
35	19.19	15.76	6.95	33.1	-88	0.00	18.0	340	1.016

End Purge Time: 1245

Water sample:

Time collected: 1145

Physical appearance at start

Color: Light Gray

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.018 End 1.018

Total volume of purged water removed:

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0053-01

SB915-0053-03 (MS)

SB915-0053-04 (MSD)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/24/12	Personnel	JWB	Weather	~80°F Sun/clouds
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-1185
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	48127

Well Information:

Depth of Well *	15.40	ft.
Depth to Water *	4.47	ft.
Length of Water Column	10.93	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1125

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	5.45	17.92	6.17	45.9	-91	3.30	>1000	400	1.024
5	5.62	17.41	6.15	46.0	-68	1.94	>1000	300	
10	5.78	15.58	6.22	46.7	-57	1.69	427	260	
15	5.90	15.68	6.25	47.7	-57	1.06	297	260	
20	6.10	15.80	6.28	48.2	-56	0.72	218	260	
25	6.15	16.59	6.28	50.1	-58	0.32	208	200	
30	6.28	16.54	6.28	51.8	-61	0.00	209	200	
35	6.35	16.23	6.28	52.7	-58	0.00	159	200	
40	6.42	16.19	6.28	53.3	-58	0.00	150	200	
45	6.50	17.03	6.27	52.7	-58	0.00	139	200	
50	6.50	16.37	6.28	53.6	-57	0.00	107	200	1.026
55	6.55	16.19	6.27	54.0	-56	0.00	107	200	
60	6.59	15.91	6.28	53.7	-56	0.00	109	200	

End Purge Time: 1230

Water sample: SB915-0053-05

Time collected: 1330

Density Measurement Start 1.024 End 1.026

Total volume of purged water removed: 4 gallons

Physical appearance at start

Color: Med. Brown

Odor: NO

Sheen/Free Product: NO

Physical appearance at sampling

Color: V. light brown

Odor: no

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/24/12	Personnel	SJW	Weather	80 / partly cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-WB-01L
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

SB915-0053-02

Depth of Well *	68.77 ft.	* Measurements taken from	
Depth to Water *	24.48 ft.	X	Top of Well Casing
Length of Water Column	ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 10485

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
1050 0	24.58	17.77	5.99	0.626	-57	0.42	184	480
5	24.59	15.72	6.15	1.07	-75	0.00	201	400
10	24.59	15.45	6.35	1.23	-83	0.00	210	360
15	24.57	15.55	6.45	1.41	-87	0.00	137	300
20	24.52	15.85	6.50	1.43	-88	0.00	81.4	300
25	24.52	15.62	6.54	1.446	-89	0.00	71.0	240
30	24.52	15.64	6.58	1.446	-89	0.00	43.8	240
35	24.54	16.006	6.600	1.47	-90	0.00	30.5	240
40	24.54	15.56	6.602	1.48	-90	0.00	25.4	300
45	24.54	15.71	6.602	1.47	-90	0.00	17.9	320
50	24.54	15.606	6.603	1.48	-90	0.00	14.2	320
55	24.55	15.40	6.604	1.48	-90	0.00	15.3	320
60	24.55	15.18	6.605	1.48	-90	0.00	11.5	330
63	24.54	15.15	6.606	1.47	-90	0.00	10.3	330
66	24.55	15.50	6.606	1.47	-91	0.00	7.38	330
69	24.55	15.40	6.607	1.48	-90	0.00	8.74	330
72	24.55	15.29	6.607	1.48	-90	0.00	7.52	330
75	24.54	15.24	6.608	1.47	-91	0.00	4.90	330
78	24.54	15.26	6.608	1.47	-91	0.00	3.91	340

End Purge Time: 12:08

Water sample:

Time collected: 1237

Physical appearance at start

Color slightly cloudy

Odor sulfur

Sheen/Free Product none

Density Measurement Start 1.002 End 1.000

Total volume of purged water removed: 11 gallons

Physical appearance at sampling

Color clear

Odor slight sulfur

Sheen/Free Product none

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/23/12	Personnel	KJK	Weather	Mostly Cloudy ~70°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-WP-06
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

pg 1/2

Well Information:

Depth of Well *	82.0	ft.
Depth to Water *	11.9	ft.
Length of Water Column	70.1	ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0950

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	12.41	16.55	8.61	0.763	26	5.58	93.4	440	1.000
5	12.45	15.74	8.33	5.60	72	2.65	253	100	1.006
10	12.65	13.05	6.54	7100	-17	0.00	766	600	1.062
15	12.62	13.48	6.43	7100	-28	0.00	454	520	1.062
20	12.59	13.51	6.36	7100	-32	0.00	463	440	1.064
25	12.61	13.34	6.32	7100	-35	0.00	430	540	1.064
30	12.60	13.41	6.31	7100	-37	0.00	525	500	1.064
35	12.60	13.31	6.31	7100	-39	0.00	422	500	1.064
40	12.60	13.32	6.30	7100	-40	0.00	385	500	1.064
45	12.61	13.25	6.31	7100	-42	0.00	373	520	1.064
50	12.59	13.37	6.32	7100	-83	0.00	316	510	1.066
55	12.60	13.38	6.32	7100	-43	0.00	270	480	1.064
60	12.60	13.38	6.33	7100	-44	0.00	218	490	1.064
65	12.58	13.42	6.33	7100	-44	0.00	234	490	1.064
70	12.61	13.39	6.33	7100	-44	0.00	151	520	1.066
75	12.61	13.39	6.34	7100	-45	0.00	167	500	1.064
80	12.60	13.31	6.34	7100	-45	0.00	167	500	1.064
85	12.60	13.21	6.34	7100	-45	0.00	114	500	1.064
90	12.62	13.34	6.35	7100	-45	0.00	102	540	1.064
95	12.60	13.59	6.35	7100	-46	0.00	83.7	460	1.064
100	12.61	13.57	6.34	7100	-46	0.00	76.9	520	1.064
105	12.61	13.41	6.37	7100	-46	0.00	65.5	500	1.064
110	12.63	13.37	6.36	7100	-46	0.00	59.8	560	1.064

End Purge Time: 1200

Water sample: SB915-GW52-01

Time collected: 1230

Density Measurement Start 1.000 End 1.064

Total volume of purged water removed:

Physical appearance at start

Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling

Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

None - Well located next to 3 fuel Tank - Strong odor of fuel in air.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

pg 2/2

Date	5/23/12	Personnel	KSK	Weather	Mostly Cloudy ~70°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW06
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well *	80.0	ft.
Depth to Water *	11.9	ft.
Length of Water Column	70.1	ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0950

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
(1145) 1150	12.56	13.70	6.36	7100	-46	0.00	48.0	400	1.064
1200	12.59	13.78	6.36	7106	-46	0.00	37.4	460	1.064
1205	12.59	13.63	6.36	7100	-46	0.00	34.5	460	1.064
1210	12.57	13.66	6.36	7100	-46	0.00	36.5	440	1.064

End Purge Time: 1200

Water sample: SB915-0052-01

Time collected: 1230

Density Measurement Start 1.000 End 1.064

Total volume of purged water removed: 19 gal

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5/23/12	Personnel	Logan Reid	Weather	80°F, Partly Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-85D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 79.75 ft.
Depth to Water * 12.84 ft.
Length of Water Column 66.91 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 11:06

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	12.84	13.6	5.93	100.0	-97	0.53	Overange	500	1.062
5	12.85	13.63	6.49	100.0	-128	0.00	Overange	380	
10	12.85	13.68	6.58	100.0	-129	0.00	Overange	400	1.060
15	12.85	13.82	6.70	100.0	-129	0.00	Overange	450	
20	12.85	13.81	6.73	100.0	-129	0.00	987	320	
25	12.85	13.86	6.77	100.0	-128	0.00	765	280	1.060
30	12.85	13.90	6.80	100.0	-126	0.00	664	450	
35	12.85	13.50	6.81	100.0	-126	0.00	463	440	1.062
40	12.85	13.75	6.84	100.0	-126	0.00	256	460	
45	12.85	13.82	6.84	100.0	-126	0.00	186	450	1.062
50	12.85	13.84	6.84	100.0	-126	0.00	181	460	
55	12.85	13.72	6.85	100.0	-124	0.00	131	470	1.062
60	12.85	13.73	6.85	100.0	-124	0.00	108	460	
65	12.85	13.73	6.85	100.0	-123	0.00	92.5	450	1.062
70	12.85	13.77	6.85	100.0	-123	0.00	90.3	450	
73	12.85	13.77	6.86	100.0	-123	0.00	88.3	450	1.062

End Purge Time: 1308

Water sample:
Time collected: 1300

Physical appearance at start
Color: Grayish Brown
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.062 End 1.062
Total volume of purged water removed: 10.5 gal

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/23/12	Personnel	JAK	Weather	overcast ~70°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-43S
Site Location	Camillus, NY	Sampling Method	Low-flow	Project #	48127

Well information:

Depth of Well *	46.91	ft.
Depth to Water *	37.46	ft.
Length of Water Column	9.45	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1025

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	38.59	23.29	11.07	6.65	-118	0.65	39.4	150	1.004
5	38.75	23.10	11.19	6.64	-121	0.00	34.3	90	1.004
10	38.78	22.74	11.30	6.67	-123	0.00	26.7	80	
* 15									
20	39.09	19.98	12.62	7.18	-117	0.00	*	100	
1125 0	40.00	19.72	12.86	7.60	-114	0.12	65.6	160	
5	40.10	19.86	12.88	7.57	-115	0.00	59.2	160	
10	40.18	19.78	12.90	7.60	-116	0.00	45.3	120	1.004
15	40.39	19.61	12.92	7.58	-116	0.00	36.9	160	1.004
20	40.51	19.95	12.90	7.59	-116	0.00	29.9	160	1.004

End Purge Time: 1330

SCA-0052-02

Water sample:

Time collected: 1330

Physical appearance at start

Color: Clear

Odor: NONE

Sheen/Free Product: NONE

Density Measurement Start 1.004 End 1.004

Total volume of purged water removed: 2.0 gal

Physical appearance at sampling

Color: Clear

Odor: NONE

Sheen/Free Product: NONE

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

* Issue with Grundfos pump; No Readings collected. Replaced pump @ 1125

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5/17/12	Personnel	EBR	Weather	Sunny 60°
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-107S
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well Information:

Depth of Well *	22.48	ft.
Depth to Water *	3.38	ft.
Length of Water Column		ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1200

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	5.10	17.21	5.80	53.6	16	0.73	261	100	1.028
5	5.45	17.34	5.75	54.4	-15	0.00	157	120	1.028
10	5.58	16.73	5.74	55.0	-14	0.00	104	120	1.028
15	5.84	16.69	5.72	55.1	-14	0.00	44.7	150	
20	5.92	17.32	5.71	54.9	-14	0.00	28.6	150	1.028
25	6.01	17.39	5.71	55.0	-14	0.00	21.1	150	
30	6.41	16.54	5.70	56.7	-14	0.00	16.4	180	1.028
35	6.50	16.85	5.69	57.7	-13	0.00	11.1	180	
40	6.74	16.84	5.68	58.5	-9	0.00	19.7	200	1.030
45	6.78	17.35	5.68	58.0	-7	0.00	21.8	200	1.031
50	6.79	17.43	5.67	58.1	-5	0.00	26.1	200	1.030

End Purge Time: 1250

Water sample:

Time collected: 1405

Physical appearance at start

Color: Cloudy

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.028 End 1.030

Total volume of purged water removed: 3 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0050-01

Grundfos @ 59.80 Hz.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/17/12	Personnel	JAK	Weather	SUNNY, ~60°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-107I
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well Information:

Depth of Well *	57.16	ft.	* Measurements taken from
Depth to Water *	7.14	ft.	X — Top of Well Casing
Length of Water Column	50.02	ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1130

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	7.21	13.42	6.99	12.5	-50	5.35	7999	360	1.008
5	7.21	13.41	6.83	12.6	-52	1.90	555	500	
10	7.22	13.43	6.75	12.5	-53	0.00	292	480	1.007
15	7.22	13.46	6.67	12.4	-53	0.00	134	480	
20	7.22	13.46	6.67	12.4	-53	0.00	120	480	1.006
25	7.22	13.48	6.64	12.3	-53	0.00	105	460	1.006
30	7.20	13.55	6.63	12.3	-53	0.00	87.9	480	1.006
35	7.20	13.55	6.62	12.3	-53	0.00	72.1	480	
40	7.21	13.58	6.60	12.3	-53	0.00	65.1	480	1.006
45	7.21	13.58	6.60	12.3	-53	0.00	57.0	480	
50	7.21	13.59	6.59	12.2	-53	0.00	51.5	480	1.006
55	7.21	13.59	6.58	12.2	-53	0.00	45.9	480	
60	7.21	13.63	6.57	12.2	-53	0.00	42.8	480	1.006
65	7.21	13.67	6.57	12.2	-53	0.00	39.6	480	
70	7.21	13.65	6.57	12.2	-53	0.00	34.7	480	1.006

End Purge Time: 1315

SB915-0050-02

Water sample:

Time collected: 1315

Physical appearance at start

Color: Cloudy - Brown

Odor: NONE

Sheen/Free Product: NONE

Density Measurement Start 1.008 End 1.006

Total volume of purged water removed:

Physical appearance at sampling

Color: Clear

Odor: NONE

Sheen/Free Product: NONE

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

~62.1 Hz

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/17/12	Personnel	AKM	Weather	Sunny 68°
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-107D
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well information:

Depth of Well * 107.95 ft.
Depth to Water * 8.75 ft.
Length of Water Column 99.20 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

SB915-0050-03

Start Purge Time: 1135

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	8.70	11.81	6.19	>100.0	41	5.85	>1000	500	1.076
5	8.70	12.52	6.13	>100.00	15	5.48	590	460	
10	8.70	12.50	6.13	>100.00	14	5.55	538	500	1.076
15	8.70	12.50	6.14	>100.00	12	5.43	344	440	
20	8.72	12.51	6.14	>100.00	12	5.38	274	460	1.078
1140 25	8.72	12.57	6.14	>100.00	12	5.25	183	440	1.078
30	8.74	12.66	6.14	>100.00	11	5.09	128	440	
35	8.74	12.63	6.15	>100	10	4.94	88.8	440	1.078
40	8.74	12.64	6.15	>100	10	4.80	75.5	440	
45	8.73	12.65	6.15	>100	9	4.54	54.2	440	1.078
50	8.73	12.69	6.15	>100	9	4.43	40.6	440	
55	8.73	12.68	6.16	>100	9	4.36	33.1	440	1.078
60	8.73	12.78	6.16	>100	9	4.17	28.9	440	

End Purge Time: 1305

Water sample:
Time collected: 1305
Physical appearance at start
Color: murky - light brown
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.076 End 1.078
Total volume of purged water removed: 11 gallons
Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/17/12	Personnel	A. Young	Weather	
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-107BR
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well information:

Depth of Well *	133.55	ft.
Depth to Water *	18.89	ft.
Length of Water Column	114.66	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1153

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	19.93	13.38	6.00	>100.0	0	2.30	84.5	220	1.132
5	22.84	14.75	6.36	>100.0	1	0.38	190	90	
10	23.22	15.24	6.47	>100.0	1	0.31	127	50	1.132
15	23.56	15.57	6.59	>100.0	4	0.17	124	100	
20	24.06	15.08	6.65	>100.0	6	0.03	129	150	1.130
25	24.52	15.43	6.70	>100.0	9	0.00	128	75	
30	25.15	14.65	6.73	>100.0	11	0.00	61.9	140	1.130
35	25.55	15.21	6.76	>100.0	14	0.00	158	100	
40	25.94	14.85	6.78	>100.0	14	0.00	77.7	150	1.130
45	26.42	15.30	6.80	>100.0	14	0.00	95.4	120	
50	26.90	14.47	6.81	>100.0	10	0.00	81.9	160	1.132
55	27.74	14.28	6.82	>100.0	5	0.00	63.2	120	
60	28.55	14.59	6.82	>100.0	-8	0.00	67.3	100	1.130
65	29.13	14.66	6.82	>100.0	-10	0.00	~~112~~ 103	180	
70	29.81	14.71	6.82	>100.0	-15	0.00	193	250	1.130
75	30.50	14.59	6.82	>100.0	-18	0.00	145	150	
80	31.20	14.44	6.81	>100.0	-21	0.00	181	140	1.130
85	31.45	14.72	6.81	>100.0	-23	0.00	62.8	150	
90	32.04	14.63	6.81	>100.0	-25	0.00	149	150	1.130
95	32.68	14.71	6.81	>100.0	-27	0.00	60.8	170	
100	33.16	14.99	6.81	>100.0	-29	0.00	66.4	150	1.132
103	33.45	14.91	6.81	>100.0	-31	0.00	80.3	150	1.132

End Purge Time: 1509

Water sample:

Time collected: 1507

Physical appearance at start

Color: Clear

Odor: Ø

Sheen/Free Product: Ø

Density Measurement Start 1.132 End 1.132

Total volume of purged water removed: 6 gal

Physical appearance at sampling

Color: clear

Odor: Ø

Sheen/Free Product: Ø

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/18/12	Personnel	A. Young	Weather	
Site Name	~~WB13 SCA~~ SB915	Evacuation Method		Well #	SB915-MW-118S
Site Location	Camillus, NY	Sampling Method		Project #	46698

Well information:

Depth of Well *	15.45 ft.	* Measurements taken from	
Depth to Water *	4.18 ft.	X	Top of Well Casing
Length of Water Column	11.27 ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1018

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	6.00	13.25	6.19	31.2	-60	1.24	71000	680	1.016
5	6.11	13.96	6.28	48.6	-64	0.04	71000	350	
10	6.11	14.54	6.47	53.5	-76	0.00	71000	250	1.026
15	5.99	15.10	6.55	60.2	-83	0.00	71000	90	
20	6.39	15.01	6.82	24.3	-75	0.00	796	300	1.012
25	6.37	14.89	6.59	59.4	-69	0.00	71000	300	
30	6.38	15.65	6.67	61.4	-75	0.00	71000	150	1.026
35	6.46	16.22	6.70	64.5	-82	0.00	71000	200	
40	6.46	16.92	6.74	61.6	-83	0.00	71000	800	1.012
45	10.80	12.36	6.62	55.8	-65	0.00	71000	150	
50	10.10	13.29	6.66	58.6	-70	0.00	71000	200	1.030
55	10.19	14.12	6.85	39.7	-59	0.72	71000	400	
60	10.02	14.33	6.72	54.0	-47	0.26	71000	280	1.026
65	9.72	15.33	6.67	65.0	-64	0.00	71000	200	
70	9.42	15.96	6.69	65.6	-66	0.00	71000	jumped from 300 to 1000	
75	10.41	13.64	6.71	49.4	-25	0.00	71000	320	1.026
80	9.85	15.04	6.63	60.9	-49	0.00	71000	150	
85	9.56	16.01	6.65	65.5	-64	0.00	71000	160	1.026
90	9.23	17.14	6.74	66.1	-86	0.00	71000	1000	
95	8.90	18.16	6.76	65.9	-89	0.00	71000	100	1.026
* 115	8.49	17.01	6.76	62.7	-33	0.79	987	450	1.026
120	8.61	16.15	6.73	54.0	-16	1.28	511	100	
125	8.43	17.00	6.69	53.1	-16	0.97	466	150	1.026

End Purge Time:

Water sample:

Time collected:

Physical appearance at start

Color: brown - turbid

Odor: Ø

Sheen/Free Product: Ø

Density Measurement Start 1.016 End

Total volume of purged water removed:

Physical appearance at sampling

Color:

Odor:

Sheen/Free Product:

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

* New pump used.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log Pg. 2

Date	5/18/12	Personnel	A. Young	Weather	
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-11BS
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well information:

Depth of Well *	15.45	ft.	* Measurements taken from
Depth to Water *	4.18	ft.	X Top of Well Casing
Length of Water Column	11.27	ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1018

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
130	8.30	17.84	6.66	63.8	-46	0.00	410	<100	1.026
135	8.12	18.44	6.69	63.6	-56	0.00	316	<100	1.026
140	9.25	17.78	6.89	60.8	-55	1.25	71000	~~25~~ 400	
145	9.25	17.16	7.14	49.9	-30	1.02	71000	250	1.026
150	9.08	16.77	7.04	55.6	-25	0.00	71000	150	
155	8.77	16.41	7.04	58.7	-32	0.00	71000	<100	1.026
160	8.59	16.96	7.07	61.4	-47	0.00	71000	150	
165	8.48	17.60	7.11	61.4	-62	0.00	71000	90	1.026
* Stopped purging - unable to maintain flow/parameters, etc.									

End Purge Time: ~~1309~~

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start 1.026 End 1.026

Total volume of purged water removed: 15

Physical appearance at sampling

Color X

Odor X

Sheen/Free Product X

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/18/12	Personnel	JCSJC	Weather	Sunny
Site Name	~~WB13 SCA~~ SB915	Evacuation Method	Grundfos	Well #	SB915-MW-118BR
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	46698

Well information:

Depth of Well *	59.88	ft.
Depth to Water *	2.74	ft.
Length of Water Column	57.14	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1028

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	2.76	12.98	6.87	11.7	-104	0.00	7999	700	1.006
5	2.77	13.30	7.03	11.7	-96	0.00	7999	420	1.006
10	2.77	13.32	7.05	11.7	-94	0.00	797	420	1.006
15	2.77	13.20	7.08	11.7	-92	0.00	371	440	1.006
20	2.77	13.20	7.09	11.7	-91	0.00	235	440	1.006
25	2.77	13.20	7.10	11.8	-90	0.00	125	360	1.006
30	2.77	13.57	7.11	11.7	-91	0.00	98.8	360	1.006
35	2.77	13.61	7.11	11.7	-90	0.00	84.6	360	1.006
40	2.77	13.67	7.12	11.7	-90	0.00	64.2	360	1.006
45	2.77	13.64	7.12	11.7	-89	0.00	51.2	360	1.006
50	2.77	13.63	7.12	11.7	-89	0.00	43.0	360	1.006
55	2.77	13.67	7.13	11.7	-89	0.00	34.1	360	1.006
60	2.77	13.63	7.13	11.7	-88	0.00	29.6	380	1.006
63	2.77	13.63	7.13	11.7	-89	0.00	25.5	380	1.006
66	2.77	13.60	7.14	11.7	-88	0.00	23.2	380	1.006
69	2.77	13.58	7.14	11.7	-88	0.00	21.8	386	1.006

End Purge Time: 1129

Water sample: SB915 0051-04

Time collected: 1153

Density Measurement Start 1.006 End 1.006

Total volume of purged water removed: 10 gal

Physical appearance at start

Color: Light Brown

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0051-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/18/12	Personnel	SJW	Weather	High 70s/Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-106S
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

SB915-mw-106S
SB915-0051-01

Depth of Well *	19.98 ft.	* Measurements taken from	
Depth to Water *	5.14 ft.	X	Top of Well Casing
Length of Water Column	ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1022

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
1025 0	6.10	16.52	7.19	4.64	53	2.02	53.4	190
5	6.40	15.15	6.99	3.94	55	0.00	44.8	120
10	6.58	15.14	7.01	3.05	52	0.00	22.0	100
15	6.72	15.37	7.03	2.55	47	0.00	16.7	80
20	6.81	15.82	7.07	2.50	49	0.00	13.1	80
25	6.90	16.03	7.10	2.09	52	0.00	4.34	80
30	7.26	15.95	7.11	2.02	57	0.00	4.49	240
35	7.34	15.99	7.15	1.69	59	0.00	4.43	120
38	7.47	16.01	7.18	1.57	61	0.00	4.83	120
41	7.54	16.10	7.17	1.60	64	0.00	4.83	100
44	7.61	16.20	7.16	1.64	66	0.00	3.70	110
47	7.70	16.15	7.17	1.64	68	0.00	3.85	110

End Purge Time: 1248

Water sample:

Time collected: 1245

Physical appearance at start

Color: Clear
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.000 End 1.002

Total volume of purged water removed: ~3 gallons

Physical appearance at sampling

Color: Clear
Odor: none
Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/18/12	Personnel	EBR	Weather	Sunny 70°
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-~~00~~MW-106I
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well * 44.82 ft.
Depth to Water * 8.24 ft.
Length of Water Column ____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1025

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	9.50	13.29	6.78	1.79	4	1.72	>1000	340	1.007
5	9.65	13.40	6.80	2.20	-76	0.00	>1000	400	1.004
10	9.67	13.96	6.80	3.32	-105	0.00	>1000	400	1.004
15	9.67	14.21	6.68	7.75	-115	0.00	>1000	400	
20	9.71	14.26	6.59	16.8	-114	0.00	>1000	300	1.008
25	9.74	14.27	6.56	22.5	-114	0.00	341	300	1.012
30	9.80	15.05	6.56	24.5	-121	0.00	156	300	1.011
35	9.72	15.16	6.53	29.3	-118	0.00	59.2	300	1.012
40	9.71	15.22	6.57	27.8	-119	0.00	35.9	300	1.014
45	9.70	15.25	6.57	28.6	-118	0.00	27.9	300	1.014
50	9.70	15.33	6.57	29.0	-117	0.00	21.3	300	1.014
55	9.69	15.46	6.56	29.8	-115	0.00	14.8	300	1.014
60	9.69	15.50	6.56	30.5	-113	0.00	12.2	300	1.014
65	9.68	15.55	6.55	31.4	-113	0.00	9.91	300	1.014

End Purge Time: 1130

Water sample:
Time collected: 1515

Density Measurement Start 1.007 End 1.014
Total volume of purged water removed: 6 gals

Physical appearance at start
Color: Cloudy
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron: ____
Dissolved total iron: ____ SB915-0051-02
Dissolved total manganese: ____ SB915-0051-05 FD
Dissolved Oxygen: ____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5/2/2012	Personnel	PAF, JMN	Weather	Sunny Mid 60°F
Site Name	SB915 Closure	Evacuation Method	Grundfos Redi flo 2	Well #	SB915-MW-109I
Site Location	Camillus, NY	Sampling Method	Low-Flow by Submersible Pump	Project #	48127

Well Information:

Depth of Well * 54.42 ft.
Depth to Water * 16.29 ft.
Length of Water Column 38.13 ft.
Diameter = 2"

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1210

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	16.88	16.48	5.47	23.22	-85	2.21	NA[1]	400
5	17.71	12.83	6.04	25.30	-415	0.46	NA[1]	280
10	18.89	14.12	6.04	25.28	-480	0.28	NA[1]	200
15	19.98	14.92	6.08	25.27	-499	0.11	NA[1]	286
20	20.89	15.34	5.96	25.26	-518	0.07	NA[1]	200
25	21.32	16.06	5.73	25.26	-517	0.02	NA[1]	200
30	21.55	14.51	5.83	24.76	-511	0.04	NA[1]	200
1250 40				Pump Failed[2]		0.01		
1307 0	19.89	13.38	5.59	21.47	-528	2.52	NA[1]	480
5	22.40	15.10	5.74	22.37	-418	0.68	NA[1]	280
10	22.43	14.70	5.72	20.29	-434	0.12	NA[1]	260
15	22.55	14.56	5.72	19.71	-435	0.07	NA[1]	260
20	22.58	14.60	5.73	19.11	-399	0.05	NA[1]	300
25	22.49	14.71	5.69	18.52	-410	0.06	NA[1]	260
35	22.48	14.99	5.70	17.57	-362	0.09	9167	260
40	22.35	14.92	5.61	17.47	-390	0.09	7164	260
45	22.26	14.52	5.66	16.72	-370	0.08	572	300
50	22.10	14.74	5.68	16.50	-364	0.07	467	220
55	22.00	14.45	5.70	16.07	-363	0.06	401	240
60	22.00	14.60	5.60	16.13	-395	0.06	314	240
65	22.01	14.44	5.61	15.81	-383	0.05	284	240
70	22.04	14.67	5.57	14.58	-387	0.04	230	240
75	21.92	14.52	5.61	14.54	-384	0.03	191	240

Continued on pg 2

End Purge Time: 1607

Water sample:
Time collected: 1515

Physical appearance at start
Color: Pale brown
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.018 End 1.012
Total volume of purged water removed: ~10 gal

Physical appearance at sampling
Color: Clearish
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Notes: [2] Pump failed @ 1250. Needed to be replaced
[1] out of Range

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5/2/2012	Personnel	PAF, JMN	Weather	Sunny Mid 60°F to 70's
Site Name	SB915 Closure	Evacuation Method	Submersible Grundfos Redi-flo2	Well #	SB915-MW-109I
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	54.42	ft.
Depth to Water *	16.29	ft.
Length of Water Column	38.13	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
80	21.90	14.54	5.59	14.55	-386	0.03	174	240
85	21.90	14.83	5.57	14.93	-385	0.03	141	240
93	21.94	14.70	5.57	14.83	-387	0.02	112	240
95	21.90	14.73	5.57	14.62	-380	0.02	111	260
100	21.92	14.56	5.57	14.46	-396	0.02	114	220
105	21.86	14.56	5.54	14.24	-402	0.01	145	220
110	21.80	14.66	5.63	14.00	-395	0.00	160	240
115	21.85	14.64	5.59	14.00	-377	0.00	167	240
120	21.81	14.65	5.60	13.70	-367	0.00	168	240
125	21.78	14.60	5.57	13.89	-372	0.00	173	240

End Purge Time: _____ See Page 1

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/4/12	Personnel	HM/ AMD	Weather	60s overcast/humid major rain event prev. night
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	WBIR-MW-14D
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well information:

Depth of Well *	59.64	ft.
Depth to Water *	5.72	ft.
Length of Water Column	53.92	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

SB915-0049-03

Start Purge Time: 1030

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	6.22	19.15	6.27	47.9	-5	0.00	34.4	140	1.030
5	6.95	18.65	6.05	49.6	-3	0.00	52.6	100	
10	7.35	[illegible] 18.58	6.06	53.2	-38	0.00	69.4	120	1.032
15	7.48	18.56	6.07	51.8	-38	0.00	48.8	120	
20	7.63	18.59	6.09	50.3	-38	0.00	68.2	80	
25	7.95	18.44	6.10	50.9	-37	0.00	42.1	120	
30	8.21	18.52	6.11	51.6	-36	0.00	54.6	80	1.032
35	8.72	18.19	6.13	52.6	-34	0.00	52.9	75	
40	9.55	17.19	6.14	53.4	-33	0.00	40.0	100	
45	9.56	17.38	6.13	54.8	-34	0.00	42.4	75	1.032
50	10.19	17.34	6.15	54.7	-33	0.00	21.8	100	
55	10.39	17.63	6.15	53.8	-33	0.00	25.6	75	
60	10.65	17.88	6.16	53.2	-34	0.00	27.2	100	1.036
65	10.69	18.01	6.16	53.9	-33	0.00	18.0	80	
70	10.68	18.59	6.16	52.7	-34	0.00	20.1	90	
75	10.69	18.75	6.17	53.1	-34	0.00	36.8	90	
80	11.04	18.85	6.17	52.1	-32	0.00	24.0	100	1.034
85	11.02	19.06	6.17	54.2	-32	0.00	16.3	100	1.036
90	11.05	19.52	6.17	52.1	-32	0.00	25.9	100	
100	11.05	19.83	6.18	52.2	-32	0.00	30.0	100	1.036

End Purge Time: 1205

Water sample:

Time collected: 1445

Physical appearance at start

Color: clear

Odor: none

Sheen/Free Product: none

Density Measurement Start 1.030 End 1.036

Total volume of purged water removed: 3.5 gallons

Physical appearance at sampling

Color: clear

Odor: none

Sheen/Free Product: ~~none~~ slight sheen

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/4/12	Personnel	KSK	Weather	Overcast ~70°F
Site Name	SB915 Closure	Evacuation Method	Groundfos	Well #	WB18-MW-14BR
Site Location	Camillus, NY	Sampling Method	Groundfos	Project #	48127

Well information:

Depth of Well * 130.69 ft.
Depth to Water * 8.89 ft.
Length of Water Column 121.80 ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1030

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.78	16.05	6.38	26.1	-119	2.42	>999	300	1.092
5	8.78	16.40	6.51	0.000	-135	2.54	>999	150	1.122
10	8.80	15.01	6.44	25.1	-74	0.45	>999	250	1.128
15	8.78	14.27	6.81	68.2	-95	5.00	>999	450	1.122
20	8.78	14.30	7.36	>100	-85	0.42	637	450	1.120
25	8.78	14.44	7.25	0.000	-110	7.73	509	450	1.120
30	8.78	14.76	6.75	>100	-79	1.61	384	400	1.116
35	8.78	14.52	6.88	0.000	-96	9.38	327	400	1.116
40	8.78	14.67	6.78	75.7	-134	7.11	183	400	1.116
45	8.78	14.94	7.16	40.8	-144	7.27	228	300	1.120
50	8.78	15.38	6.75	>100	-69	2.57	144	250	1.118
55	8.74	16.47	6.79	>100	-69	0.00	139	200	1.118
60	8.71	16.75	6.75	>100	-69	0.00	84.7	125	1.120
65	8.72	15.61	6.79	>100	-83	3.31	124	300	1.120
70	8.72	15.17	6.91	>100	-82	1.25	78.6	300	1.120
75	8.71	15.31	6.76	>100	-75	0.90	95.5	300	1.120
80	8.71	15.93	6.77	>100	-68	0.00	90.4	250	1.120
85	8.69	16.67	6.77	>100	-69	0.00	65.4	300	1.122
90	8.70	16.12	6.78	>100	-69	0.00	51.7	275	1.120
95	8.68	15.93	6.79	>100	-68	0.00	46.2	275	1.120
100	8.69	15.73	6.78	>100	-68	0.00	53.3	300	1.120
105									

End Purge Time: 1210

Water sample: SB915-0049-04

Time collected: 1250

Density Measurement Start 1.092 End 1.120

Total volume of purged water removed: 10 gal

Physical appearance at start
- Color: Brown
- Odor: Sulfur
- Sheen/Free Product: None

Physical appearance at sampling
- Color: Clear
- Odor: None
- Sheen/Free Product: None

Field Test Results:
- Dissolved ferrous iron:
- Dissolved total iron:
- Dissolved total manganese:
- Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5-4-12	Personnel	JWB	Weather	~75°F Sun / clouds
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-109S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well *	15.75	ft.
Depth to Water *	3.01	ft.
Length of Water Column	12.74	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1040

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	3.01	14.76	11.48	31.3	-57	0.03	77.0	240	1.014
5	3.01	14.23	11.73	31.2	-80	0.00	67.8	300	
10	3.02	11.98	11.87	32.5	-112	0.00	41.0	300	
15	3.02	11.92	11.89	32.5	-127	0.00	36.8	300	
20	3.02	11.90	11.90	32.5	-137	0.00	29.3	300	1.014
25	3.02	11.90	11.91	32.5	-150	0.00	24.3	300	
30	3.02	11.95	11.91	32.5	-156	0.00	18.6	300	
33	3.02	11.91	11.92	32.4	-160	0.00	16.5	300	
36	3.02	11.82	11.92	32.4	-163	0.00	14.2	300	1.014
39	3.02	11.88	11.92	32.4	-165	0.00	14.0	300	

End Purge Time: 1119

Water sample: SB915-0049-01

Time collected: 1209

Density Measurement Start 1.014 End 1.014

Total volume of purged water removed: ~3.5 gallons

Physical appearance at start

Color: clear

Odor: no

Sheen/Free Product: no

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/4/12	Personnel	RDH	Weather	±60's, Cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-113S
Site Location	Camillus, NY	Sampling Method	Grundfos Pump	Project #	48127

Well Information:

Depth of Well *	29.40	ft.
Depth to Water *	10.30	ft.
Length of Water Column	19.10	ft.

SB915-0049-02

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 0954

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0955 0	11.67	18.71	10.74	18.6	-208	0.94	35.0	400	1.010
5	11.76	16.82	11.38	20.6	-254	0.00	40.1	400	
10	11.80	16.85	11.43	21.0	-265	0.00	31.6	400	
15	11.82	16.76	11.43	21.3	-271	0.00	19.9	400	
20	11.87	16.79	11.38	22.3	-274	0.00	42.8	400	
25	11.90	16.93	11.21	24.3	-277	0.00	66.8	400	
30	11.80	17.09	11.10	25.5	-289	0.00	66.7	380	
35	11.96	16.95	11.03	26.6	-297	0.00	62.3	440	
40	11.94	17.07	11.00	26.4	-306	0.00	82.4	360	
45	11.49	17.33	10.80	27.9	-315	0.00	73.5	300	
50	11.65	17.64	10.97	26.9	-335	0.00	46.7	340	
55	11.67	17.41	11.07	26.2	-345	0.00	47.7	300	
60	11.58	17.84	10.95	26.7	-347	0.00	49.0	300	
65	11.48	18.11	10.96	26.7	-350	0.00	45.3	300	
70	11.55	18.18	11.05	26.1	-349	0.00	40.5	280	1.011

End Purge Time: 1200

Water sample:

Time collected: 1159

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.010 End 1.011

Total volume of purged water removed: ~9 gallons

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5.3.12	Personnel	AKM	Weather	65°-75 ~~[illegible]~~ Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-S3D
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well information:

Depth of Well * 123.90 ft.
Depth to Water * 67.45 ft.
Length of Water Column 56.45 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

* SB915-0048-01
SB915-0048-03 MS
SB915-0048-04 MSD

Start Purge Time: 1045

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	67.45	13.78	6.90	1.28	-61	0.00	956	500	1.000
5	67.42	13.89	6.95	1.44	-65	0.00	256	340	
10	67.42	14.03	6.93	1.46	-65	0.00	167	340	1.000
15	67.42	14.06	6.95	1.49	-67	0.00	106	340	
20	67.42	13.96	6.99	1.59	-69	0.00	65.5	360	1.000
25	67.42	14.09	7.02	1.59	-70	0.00	44.4	360	
30	67.42	14.26	7.04	1.68	-72	0.00	36.3	340	1.002
35	67.41	14.59	7.05	1.73	-73	0.00	30.2	300	
40	67.41	14.57	7.06	1.80	-73	0.00	24.7	320	1.002
45	67.41	14.66	7.11	1.85	-75	0.00	20.0	300	
50	67.41	14.77	7.14	1.88	-77	0.00	17.9	320	1.002

End Purge Time: 1135

Water sample:
Time collected: 1222
Physical appearance at start
Color: mildly dark murky brown
Odor: none
Sheen/Free Product: minimal sheen - might have been from bucket

Density Measurement Start 1.000 End 1.002
Total volume of purged water removed: 6.5 gallons
Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5.3.12	Personnel	AMD, SJW	Weather	70/overcast
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-53I
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well Information:

Depth of Well * 74.36 ft:
Depth to Water * 46.75 ft.
Length of Water Column ____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1040

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
10:45 0	47.70	14.83	12.60	100.0	-263	0.00	72.9	100	SG 1.070
5	48.70	14.98	12.62	100.0	-277	0.00	40.8	100	
10	48.10	15.74	12.60	100.0	-284	0.00	44.0	80	1.070
15	49.00	15.90	12.61	100.0	-285	0.00	37.4	100	
20	49.90	16.54	12.59	84.1	-283	0.00	44.8	100	
25	49.90	17.16	12.57	100.0	-286	0.00	35.4	80	
30	50.02	17.47	12.56	100.0	-287	0.00	34.6	100	
35	50.10	17.60	12.56	100.0	-290	0.00	30.8	80	
40	50.16	17.79	12.55	84.9	-294	0.00	26.5	90	
45	50.19	18.05	12.55	100.0	-297	0.00	24.2	100	1.070
50	50.27	18.17	12.54	100.0	-297	0.00	25.3	100	
55	50.29	18.35	12.54	100.0	-299	0.00	23.1	90	
60	50.43	18.37	12.55	100.0	-297	0.00	23.7	100	
65	50.51	18.39	12.52	100.0	-305	0.00	25.6	100	1.064

End Purge Time: 1433

Water sample:
Time collected: 1429

Density Measurement Start 1.070 End 1.064
Total volume of purged water removed: ____

Physical appearance at start
Color clear
Odor none
Sheen/Free Product none

Physical appearance at sampling
Color clear
Odor none
Sheen/Free Product none

Field Test Results:
Dissolved ferrous iron: ____
Dissolved total iron: ____
Dissolved total manganese: ____
Dissolved Oxygen: ____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	05/03/12	Personnel	RDH	Weather	± 60's, Cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-112I
Site Location	Camillus, NY	Sampling Method	Grundfos Pump	Project #	48127

Well information:

Depth of Well * 58.76 ft.
Depth to Water * 15.74 ft.
Length of Water Column ft.
SB915-0048-06

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1122

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
1124 0	15.80	17.56	6.05	4.57	151	6.97	>1000	160	1.004
5	15.77	16.21	6.14	78.3	5	0.72	>1000	160	
10	15.77	15.98	6.22	83.7	0	0.23	>1000	160	
15	15.78	15.79	6.26	85.3	-5	0.00	765	220	
20	15.76	16.58	6.30	83.0	-12	0.00	662	240	
25	15.75	16.27	6.30	84.2	-14	0.00	389	270	
30	15.76	16.03	6.30	84.4	-14	0.00	336	300	
35	15.76	16.32	6.30	84.0	-14	0.00	263	260	
40	15.76	16.30	6.30	83.8	-15	0.00	189	260	
45	15.77	16.39	6.30	83.7	-16	0.00	137	280	
50	15.76	16.32	6.30	84.0	-16	0.00	105	300	
55	15.77	16.38	6.30	84.1	-17	0.00	65.6	300	
60	15.76	16.42	6.30	83.4	-17	0.00	54.1	300	
65	15.77	16.56	6.30	83.5	-18	0.00	40.6	300	
70	15.77	16.69	6.30	83.4	-18	0.00	32.3	300	
75	15.76	16.78	6.30	83.3	-18	0.00	25.2	300	1.042

End Purge Time: 1320

Water sample:

Time collected: 1319

Physical appearance at start
Color: Brown
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.004 End 1.042

Total volume of purged water removed: ~9 gallons

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5.3.12	Personnel	JWB	Weather	~75°F Cloud/Sun
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-1125
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well *	20.29	ft.
Depth to Water *	12.31	ft.
Length of Water Column	7.58	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1120

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	12.83	17.56	9.29	9.50	-229	0.0	5.09	220	1.004
5	12.98	16.43	9.88	9.71	-235	0.0	5.29	200	
10	13.04	15.99	10.12	9.82	-236	0.0	5.02	200	
15	13.22	15.87	10.48	9.87	-235	0.0	76.2	150	
20	13.51	16.08	10.51	9.94	-222	0.0	302	150	
25	13.57	16.35	10.49	9.97	-208	0.0	267	120	
30	13.60	16.39	10.48	10.00	-205	0.0	225	120	
35	13.60	16.63	10.42	10.10	-196	0.0	142	120	1.004
40	13.50	16.94	10.31	10.10	-157	0.0	59.5	120	
45	13.60	16.83	10.24	10.10	-157	0.0	39.4	150	
50	13.70	16.39	10.27	10.10	-138	0.0	21.4	150	
55	13.68	16.42	10.30	10.10	-127	0.0	24.5	150	
60	13.68	16.60	10.20	10.10	-132	0.0	33.6	150	
63	13.68	16.64	10.02	10.10	-162	0.0	26.4	150	
66	13.68	16.64	10.04	10.10	-159	0.0	27.8	150	
69	13.68	16.65	10.09	10.10	~~-158~~ -158	0.0	23.3	150	

End Purge Time: 1227

Water sample: SB915-0048-05

Time collected: 1405

Density Measurement Start 1.004 End 1.004

Total volume of purged water removed: ~2.8 gallons

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Physical appearance at sampling

Color: Clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/25/12	Personnel	KJK	Weather	Overcast - 40°F
Site Name	SB915 Closure	Evacuation Method	Groundfos	Well #	SB915-I44W-01
Site Location	Camillus, NY	Sampling Method	Groundfos	Project #	~~46698~~ 48127

Well information:

Depth of Well *	20.05	ft.
Depth to Water *	7.32	ft.
Length of Water Column	12.73	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1050

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.01	10.90	5.67	24.3	70	0.00	61.4	250	1.012
5	8.31	11.05	6.11	21.7	18	0.00	27.6	200	1.012
10	8.53	11.56	6.22	20.7	9	0.00	14.6	125	1.012
15	8.64	11.50	6.29	21.2	7	0.00	13.5	100	1.010
20	8.76	11.59	6.27	22.6	14	0.00	11.6	275	1.010
25	8.93	12.52	6.32	21.2	12	0.00	11.5	175	1.010

End Purge Time: 1115

Water sample: SB915-0042-06

Time collected: 1316

Physical appearance at start

Color: Light Green

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.012 End 1.010

Total volume of purged water removed: 2 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0042-05 = MS

SB915-0042-06 = MSD

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	5/2/12	Personnel	AKM	Weather	65° Partly Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-705
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well information: SB915-0047-001

Depth of Well *	26.70 ft.	* Measurements taken from	
Depth to Water *	17.40 ft.	X	Top of Well Casing
Length of Water Column	9.30 ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1040

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	17.53	14.26	6.28	16.8	-24	0.00	71,000	300	0.012
5	17.53	14.94	6.34	16.8	-41	0.00	71,000	300	0.012
10	17.53	15.58	6.39	17.0	-57	0.00	71,000	300	
15	17.53	15.59	6.42	17.2	-67	0.00	8946	300	
20	17.53	15.59	6.43	17.2	-72	0.00	481	320	0.010
25	17.53	15.49	6.45	17.3	-75	0.00	234	320	
30	17.53	15.43	6.46	17.3	-79	0.00	124	340	0.010
35	17.53	15.56	6.46	17.3	-82	0.00	83.7	320	
40	17.53	15.75	6.47	17.2	-84	0.00	61.8	300	
45	17.53	15.87	6.47	17.3	-85	0.00	49.4	300	
50	17.53	15.88	6.48	17.3	-86	0.00	42.4	320	0.010
55	17.53	15.86	6.48	17.3	-87	0.00	31.9	320	
60	17.53	15.70	6.49	17.3	-88	0.00	31.1	320	0.010

End Purge Time: 1140

Water sample:

Time collected: 1250

Physical appearance at start

Color: murky brown

Odor: none

Sheen/Free Product: none

Density Measurement Start 0.012 End 0.010

Total volume of purged water removed: 11 gallons

Physical appearance at sampling

Color: Clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/2/12	Personnel	AMD	Weather	60°F, partly cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfus Pump	Well #	SB915-MW-70D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information: SB915-0047-02

Depth of Well *	62.22 ft.	* Measurements taken from	
Depth to Water *	18.46 ft.	X	Top of Well Casing
Length of Water Column	43.76 ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1030

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	18.45	14.45	6.04	57.5	77	8.00	overrange	240	1,046
5	18.45	14.83	6.37	57.7	-1	0.00	overrange	300	
10	18.45	15.02	6.51	57.7	-17	0.00	813	240	
15	18.46	15.19	6.56	57.4	-22	0.00	621	200	
20	18.46	15.54	6.62	56.9	-28	0.00	424	180	
25	18.46	15.73	6.64	56.5	-30	0.00	335	180	
30	18.46	15.83	6.67	57.5	-32	0.00	275	180	1,052
35	18.46	15.99	6.69	56.4	-36	0.00	249	160	
40	18.46	16.18	6.71	56.1	-38	0.00	234	180	1,050
45	18.46	16.50	6.73	55.4	-41	0.00	198	140	
50	18.46	16.67	6.75	54.9	-44	0.00	180	200	
55	18.46	16.74	6.76	54.7	-47	0.00	146	200	
60	18.46	16.95	6.76	54.4	-49	0.00	130	200	
65	18.46	17.15	6.76	55.3	-49	0.00	132	180	1,050
70	18.46	16.79	6.78	54.1	-50	0.00	213	200	
75	18.46	16.82	6.77	54.5	-53	0.00	155	180	
80	18.46	17.36	6.78	54.2	-54	0.00	112	200	
85	18.46	17.36	6.78	53.9	-56	0.00	96.9	180	
90	18.45	17.34	6.79	53.7	-57	0.00	98.8	180	1,052
95	18.46	17.34	6.78	53.7	-58	0.00	99.0	180	1,052

End Purge Time: 1205

Water sample:
Time collected: 1330
Physical appearance at start
Color: murky brown
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.046 End 1,052
Total volume of purged water removed: 6 gallons
Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/2/12	Personnel	RDH	Weather	±60's, Partly Cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-595
Site Location	Camillus, NY	Sampling Method	Grundfos Pump	Project #	48127

Well information:

Depth of Well * 21.67 ft.
Depth to Water * 12.10 ft.
Length of Water Column ft.

SB915-0047-03

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1057

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
1100 0	12.14	20.09	5.66	15.8	114	1.77	365	400	1.014
5	12.14	19.04	6.48	16.8	-54	0.00	230	400	
10	12.14	18.63	6.80	17.4	-87	0.00	106	390	
15	12.14	18.68	6.97	17.7	-103	0.00	82.8	390	
20	12.14	18.88	7.04	17.6	-108	0.00	55.0	380	
25	12.14	19.09	7.09	17.4	-113	0.00	37.6	380	
30	12.14	19.32	7.12	17.4	-116	0.00	23.7	380	
35	12.14	19.51	7.15	17.2	-118	0.00	15.7	400	1.014

End Purge Time: 1220

Water sample:
Time collected: 1217

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.014 End 1.014
Total volume of purged water removed: ~8 gallons

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/2/12	Personnel	KJK	Weather	Partly Cloudy ~60°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-60S
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well * 21.86 ft.
Depth to Water * 12.44 ft.
Length of Water Column 9.42 ft.

* Measurements taken from
- [ ] Top of Well Casing
- [X] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1050

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	12.44	14.00	5.82	16.2	-53	0.00	329	300	1.014
5	12.44	14.63	6.22	14.9	-86	0.00	111	300	1.010
10	12.44	14.80	6.34	13.7	-98	0.00	51.4	300	1.008
15	12.44	14.04	6.40	13.0	-104	0.00	32.7	300	1.008
20	12.45	14.95	6.44	12.4	-107	0.00	22.0	300	1.008
25	12.45	15.03	6.48	11.9	-110	0.00	13.7	300	1.008
30	12.44	15.17	6.50	11.7	-117	0.00	10.8	300	1.008

End Purge Time: 1120

Water sample: SB915-0047-04

Time collected: 1226

Physical appearance at start
- Color: Light Grey
- Odor: None
- Sheen/Free Product: None

Density Measurement Start 1.014 End 1.008

Total volume of purged water removed: 3 gal

Physical appearance at sampling
- Color: Clear
- Odor: Yes - Sulfur
- Sheen/Free Product: None

Field Test Results:
- Dissolved ferrous iron: _____
- Dissolved total iron: _____
- Dissolved total manganese: _____
- Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	4/27/12	Personnel	EBR / JNB	Weather	Overcast 34°
Site Name	WB13 SCA	Evacuation Method	Grundfos	Well #	SB915-MW-108S
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	46698

Well Information:

Depth of Well *	26.75	ft.
Depth to Water *	23.71	ft.
Length of Water Column	3.04	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1150

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	23.68	10.42	6.61	1.42	206	2.96	836	200	1.004
5	24.72	10.13	6.96	1.48	202	1.36	>1000	130	1.002
10	24.61	11.42	7.07	1.47	201	0.70	826	100	1.002
15									
* 20	24.30	11.23	7.15	1.53	202	0.24			
5/1/12	DTW: 23.65								
1145	- Purging 3 well volumes;		1.5 gallons						
	- water very turbid								
5/2/12	DTW: 23.62								
	- Using peristaltic pump to remove water to fill sample bottles.								
1115	- Starting to sample, water is clear								
	- DTW holding @ 24.35' BTOC								
1305	- Finish filling bottles								
	- Well can be low flow sampled using a peristaltic pump next QTR.								

End Purge Time:

Water sample: SB915-0047-05

Time collected: 1305 on 5/2/12

Physical appearance at start

Color: Brown

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.004 End 1.004

Total volume of purged water removed: ~2.0 gallons

Physical appearance at sampling 5/2/12

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

* Well went dry, 4/27/12

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/1/12	Personnel	AM	Weather	50 overcast
Site Name	SB915 Closure	Evacuation Method	Peristaltic pump	Well #	SB915-WB-055
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well Information:

Depth of Well * 14.59 ft.
Depth to Water * 11.05 ft.
Length of Water Column ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

SB915-0046-01
(DUP) SB915-0046-02

Start Purge Time: 1109

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
1110 0	11.15	15.36	7.94	28.1	-65	0.00	3.95	300	1.011
5	11.15	13.09	11.94	30.6	-46	0.00	4.86	320	
10	11.15	12.73	12.20	31.2	-83	0.00	3.98	400	
15	11.15	12.62	12.25	31.3	-99	0.00	4.68	400	
20	11.15	12.53	12.30	31.3	-115	0.00	4.41	360	1.012
25	11.15	12.45	12.34	31.3	-132	0.00	3.48	360	
30	11.17	12.42	12.35	31.2	-146	0.00	1.40	2400	
35	11.17	12.39	12.35	31.2	-154	0.00	1.22	340	
40	11.16	12.37	12.38	31.2	-162	0.00	1.77	400	1.010
45	11.15	12.34	12.39	30.9	-169	0.00	1.62	240	
50	11.15	12.39	12.40	30.9	-173	0.00	2.19	260	
55	11.15	12.38	12.40	30.8	-174	0.00	0.95	260	
60	11.15	12.38	12.41	30.8	-174	0.00	0.98	260	
65	11.15	12.36	12.41	30.8	-177	0.00	1.00	260	1.012

End Purge Time: 1215

Water sample:

Time collected: 1415

Physical appearance at start
Color: Clear
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.011 End 1.012

Total volume of purged water removed: 6.5 gallons

Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	05/01/12	Personnel	RDH	Weather	
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-WR-65M
Site Location	Camillus, NY	Sampling Method	Grundfos Pump	Project #	48127

Well Information:

Depth of Well * 64.57 ft.
Depth to Water * 18.48 ft.
Length of Water Column ft.
SB915-0046-03 (RH)

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1115

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
1118: 0	18.99	15.16	5.49	25.3	-2	0.20	37.8	240	1.018
5	18.99	15.38	6.05	26.0	-89	0.00	35.5	240	
10	18.99	16.00	6.17	26.1	-87	0.00	22.8	220	
15	18.99	16.74	6.25	26.0	-87	0.00	19.8	220	
20	19.00	17.14	6.31	26.0	-87	0.00	15.6	220	
25	19.02	17.38	6.36	26.1	-89	0.00	11.2	220	
30	19.04	19.40	6.39	26.1	-91	0.00	10.5	220	1.016

End Purge Time:

Water sample:
Time collected:

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.018 End 1.016
Total volume of purged water removed:

Physical appearance at sampling
Color:
Odor:
Sheen/Free Product:

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

1250: Pump began to produce less water. Pulled pump to replace and noticed obstruction at 25 feet BTOC. Could not sample pump will not fit past obstruction

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date		Personnel	JWB	Weather	~55°F Cloudy
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-WR-05L
Site Location	Camillus, NY	Sampling Method		Project #	~~48127~~ 48127

Well Information:

Depth of Well * 12.66 ft.
Depth to Water * 2.16 ft.
Length of Water Column ____ ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: ____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: ____

Water sample:
Time collected: ____

Density Measurement Start ____ End ____
Total volume of purged water removed: ____

Physical appearance at start
Color ____
Odor ____
Sheen/Free Product ____

Physical appearance at sampling
Color ____
Odor ____
Sheen/Free Product ____

Field Test Results:
Dissolved ferrous iron: ____
Dissolved total iron: ____
Dissolved total manganese: ____
Dissolved Oxygen: ____

* Obstruction in well @ ~25' could not get pump or peristaltic pump tubing past it. Can not sample.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	5/1/12	Personnel	JCJK	Weather	Overcast ~55°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-WB-05R
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well *	157.40	ft.
Depth to Water *	25.59	ft.
Length of Water Column	131.81	ft.

SB915-0046-04

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1110

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	26.76	12.50	5.32	>100	116	0.00	69.4	175	1.130
5	27.13	12.58	5.78	7100	42	0.00	32.7	100	
10	27.16	12.69	5.94	>100	17	0.00	37.7	75	1.135
15	27.30	12.79	6.03	7100	-4	0.00	126	100	1.134
20	27.35	12.86	6.04	>100	-14	0.00	154	75	1.134
25	27.36	12.93	6.04	>100	-22	0.00	145	125	
30	27.78	12.70	6.05	7100	-28	0.00	160	125	1.134
35	27.91	12.72	6.05	>100	-32	0.00	164	100	
40	27.93	12.74	6.05	>100	-36	0.00	149	100	1.132
45	28.01	12.69	6.05	>100	-39	0.00	114	150	
50	28.13	12.59	6.06	>100	-41	0.00	108	100	1.132
55	NA	12.67	6.06	>100	-44	0.00	114	75	
60	28.16	12.68	6.06	>100	-45	0.00	92	75	1.132
65	28.16	12.68	6.06	>100	-46	0.00	~~77~~ 78.5	100	
70	28.20	12.59	6.08	>100	-48	0.00	67.4	100	1.132
75	28.21	12.60	6.09	>100	-49	0.00	65.9	100	
80	28.23	12.51	6.09	>100	-50	0.00	67.5	75	1.132

End Purge Time: 1230

Water sample:

Time collected: 1420

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.130 End 1.132

Total volume of purged water removed: 2 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/30/12	Personnel	RDH	Weather	±60's, Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-111BR
Site Location	Camillus, NY	Sampling Method	Grundfos Pump	Project #	48127

Well information:

Depth of Well * 142.75 ft.
Depth to Water * 12.47 ft.
Length of Water Column ~~142.75~~ (114) ft.
SB915-0045-01

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1245

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
1248 0	12.36	19.37	6.58	>100.0	-113	1.24	71.2	100	1.084
5	12.58	17.36	7.01	>100.0	-99	0.00	49.5	100	
10	12.87	17.13	6.72	>100.0	-50	0.00	74.1	100	
15	13.37	17.06	6.55	>100.0	-19	0.00	51.9	100	
20	13.69	16.96	6.37	>100.0	2	0.00	57.9	100	
25	14.36	16.51	6.24	>100.0	13	0.00	150	160	
30	14.66	15.68	6.29	>100.0	-6	0.00	264	100	
35	14.93	16.24	6.41	>100.0	-25	0.00	236	160	
40	15.43	15.88	6.49	>100.0	-37	0.00	314	120	
45	15.64	15.81	6.51	>100.0	-38	0.00	276	100	
50	15.85	15.70	6.51	>100.0	-38	0.00	272	100	
55	16.07	16.06	6.50	>100.0	-35	0.00		100	
60	16.10	16.23	6.49	>100.0	-34	0.00	161	100	
63	16.10	16.53	6.48	>100.0	-34	0.00	232	100	
66	16.10	16.67	6.48	>100.0	-35	0.00	145	100	
69	16.10	16.86	6.47	>100.0	-33	0.00	156	100	
72	16.21	16.47	6.47	>100.0	-35	0.00	140	100	1.122

End Purge Time: 1530

Water sample:
Time collected: 1525
Physical appearance at start
Color: Slightly Cloudy Gray
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.084 End 1.122
Total volume of purged water removed: ~3 gallons
Physical appearance at sampling
Color: Very Light Brown
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/30/17	Personnel	AMD	Weather	60°F, sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-111I
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

SB915-0045-03

Well information:

Depth of Well *	66.10 ft.	* Measurements taken from	
Depth to Water *	7.90 ft.	X	Top of Well Casing
Length of Water Column	ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1200

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	7.80	15.39	6.08	120	20	6.85	overrange	160	1,010
5	7.85	15.70	5.90	82.7	-2	0.33	overrange	160	
10	7.85	15.47	5.99	84.3	-7	0.03	overrange	180	
15	7.80	15.33	6.05	85.3	-11	0.00	overrange	180	
20	7.83	15.34	6.07	85.4	-12	0.00	overrange	180	
25	7.82	15.34	6.11	85.7	-14	0.00	overrange	180	
30	7.82	15.54	6.13	85.6	-16	0.00	overrange	160	
35	7.85	15.69	6.14	85.8	-17	0.00	883	160	
40	7.85	15.76	6.15	85.9	-18	0.00	770	160	
45	7.83	15.86	6.16	85.8	-18	0.00	579	100	
50	7.85	15.84	6.18	86.2	-20	0.00	510	100	
55	7.85	14.47	6.21	86.7	-24	0.00	468	240	
60	7.83	14.53	6.22	86.4	-28	0.00	323	200	
65	7.82	14.65	6.23	86.6	-29	0.00	194	180	
70	7.83	14.78	6.24	86.5	-30	0.00	135	180	
75	7.83	14.80	6.24	86.5	-30	0.00	115	150	
80	7.83	15.10	6.24	86.5	-30	0.00	96.9	150	
85	7.83	15.13	6.25	86.4	-31	0.00	77.3	150	
90	7.82	15.11	6.25	86.5	-31	0.00	71.8	150	1,050

End Purge Time: 1330

Water sample:

Time collected: ~~1400~~ 1500 (FD)

Physical appearance at start

Color: murky brown

Odor: none

Sheen/Free Product: none

Density Measurement Start 1.010 End 1.050

Total volume of purged water removed: 3 gallons

Physical appearance at sampling

Color: clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/30/12	Personnel	SJW	Weather	50s/overcast
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-1110
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

SB915-0045-02

Well information:

Depth of Well *	99.20	ft.	* Measurements taken from
Depth to Water *	6.08	ft.	X — Top of Well Casing
Length of Water Column		ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: 12:00 PM

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
12:10 0	5.90	16.82	6.69	0.962	152	4.01	14.8	50	1.020
5	5.88	14.24	5.45	81.8	cole	1.09	over	160	
10	5.88	13.74	5.81	0.00	19	0.00	over	140	
15	5.91	14.33	5.98	14.5	-1	0.00	872	150	
20	5.92	14.76	6.05	0.00	-11	0.00	682	150	
25	5.91	15.02	6.08	86.1	-19	0.00	550	140	
30	5.90	15.02	6.10	100.0	-23	0.00	393	160	
35	5.91	14.99	6.13	50.2	-26	0.00	338	160	
40	5.90	15.22	6.12	100.0	-29	0.00	242	160	
45	5.90	15.17	6.13	100.0	-30	0.00	193	160	
50	5.90	14.98	6.14	97.4	-30	0.00	176	180	
55	5.89	14.165	6.15	100.0	-32	0.00	151	180	
60	5.90	14.32	6.16	93.1	-34	0.00	123	180	
65	5.90	14.25	6.17	80.6	-35	0.00	99.4	180	
70	5.90	14.17	6.17	82.6	-37	0.00	89.7	190	
75	5.89	13.71	6.17	100.0	-38	0.00	81.4	180	
80	5.89	13.96	6.18	86.3	-38	0.00	58.6	200	
85	5.90	13.70	6.18	99.3	-39	0.00	46.2	190	
90	5.90	13.57	6.19	89.5	-40	0.00	47.4	190	1.072

End Purge Time: 1439

Water sample:

Time collected: 1433

Physical appearance at start

Color: murky/light brown

Odor: none

Sheen/Free Product: none

Density Measurement Start ____ End ____

Total volume of purged water removed: ____

Physical appearance at sampling

Color: clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron: ____

Dissolved total iron: ____

Dissolved total manganese: ____

Dissolved Oxygen: ____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	4/30/12	Personnel	AKM/JWB	Weather	Sunny 60°
Site Name	SB915 Closure	Evacuation Method	grunafos	Well #	SB915-MW-111S
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well information:

Depth of Well * 24.35 ft.
Depth to Water * 8.12 ft.
Length of Water Column 16.23 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

SB915-0045-04

Start Purge Time: 1200

Density

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.6	17.11	5.95	52.7	-16	0.0.	440	150	
5	8.61	16.55	6.04	54.5	-19	0.0	798	220	1.032
10	8.61	16.27	6.07	55.4	-21	0.0	>1,000	150	
15	8.59	16.44	6.09	55.5	-26	0.0	>1,000	150	
20	8.56	16.37	6.10	55.5	-30	0.0	>1,000	100	1.032
25	8.70	16.66	6.10	55.3	-34	0.0	>1,000	200	
30	8.70	16.43	6.14	53.5	-39	0.0	>1,000	100	
35	8.50	16.47	6.16	52.4	-41	0.0	>1,000	95	
40	9.65	15.31	6.19	50.3	-41	0.0	>1,000	700	
45	9.05	13.27	6.27	36.9	-61	0.0	>1,000	320	
50	9.05	13.14	6.34	30.1	-71	0.0	896	460	1.020
55	9.1	13.00	6.36	29.4	-77	0.0	418	480	
60	9.1	12.98	6.39	27.0	-79	0.0	232	480	
65	9.1	12.91	6.41	26.9	-82	0.0	135	500	1.014
70	9.1	12.88	6.42	26.2	-84	0.0	105	500	
75	9.1	12.82	6.44	24.9	-85	0.0	75.7	500	1.014
80	9.1	12.83	6.45	24.4	-86	0.0	62.1	500	
85	9.1	12.82	6.47	24.6	-88	0.0	51.5	500	1.014

End Purge Time: 1329

Water sample:

Time collected: 1416

Physical appearance at start
Color: murky brown
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.032 End 1.014

Total volume of purged water removed: 13 gallons

Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	4/27/12	Personnel	RDH	Weather	±30's, Snow Showers / Cloudy
Site Name	~~WB13 SCA~~ Closure	Evacuation Method	Groundfos	Well #	SB915-MW-108BR
Site Location	Camillus, NY	Sampling Method	Groundfos	Project #	~~46698~~ 48127

Well information:

Depth of Well * 94.76 ft.
Depth to Water * 18.92 ft.
Length of Water Column 75.84 ft.
SB915-0044-04

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1153

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SpG
1157 0	19.93	8.49	5.97	2.79	157	5.90	80.9	100	1.004
5	20.26	8.46	6.29	2.84	82	2.19	380	100	
10	20.42	8.25	6.36	2.85	45	1.83	754	100	
15	20.50	8.10	6.37	2.85	34	1.61	544	100	
20	20.51	7.98	6.33	2.86	31	1.16	416	100	
25	20.52	7.87	6.27	2.83	30	1.09	275	100	
30	20.61	7.91	6.19	2.83	31	0.89	199	100	
35	20.62	7.98	6.15	2.83	31	0.77	157	100	
40	20.62	7.86	6.11	2.84	30	0.57	124	100	
45	20.61	7.91	6.08	2.83	30	0.37	96.7	100	
50	20.61	7.75	6.07	2.84	29	0.25	81.7	100	
55	20.60	7.68	6.06	2.84	28	0.11	74.2	100	
60	20.59	7.71	6.06	2.83	27	0.00	65.3	100	
65	20.59	7.82	6.06	2.82	25	0.00	55.0	100	
70	20.59	7.80	6.06	2.83	23	0.00	49.2	100	
75	20.60	7.75	6.06	2.83	22	0.00	46.1	100	
80	20.59	7.94	6.07	2.82	20	0.00	37.7	100	1.002

End Purge Time: 1505

Water sample:

Time collected: 1500

Physical appearance at start
Color: Slightly Cloudy Gray
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.004 End 1.002

Total volume of purged water removed: ~3 gallons

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/27/12	Personnel	LSK	Weather	COLD - Snow/cloudy
Site Name	WB13 SCA	Evacuation Method	Grundfos	Well #	SB915-MW-108D
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	46698

Well information:

Depth of Well *	64.85	ft.
Depth to Water *	28.81	ft.
Length of Water Column	36.04	ft.

* Measurements taken from

Y	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1150

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	28.83	11.19	6.04	0.888	-36	0.36	273	400	1.002
5	28.82	11.77	6.36	0.879	-54	0.00	155	450	1.002
10	28.82	12.10	6.69	0.894	-69	3.52	60.7	500	1.002
15	28.82	11.57	6.76	0.904	-71	3.27	37.3	325	1.002
20	28.82	11.68	6.81	0.918	-71	2.98	25.8	350	1.002
25	28.81	11.80	6.84	0.931	-70	2.73	15.6	350	1.002
30	28.81	11.71	6.87	0.942	-69	2.49	14.3	325	1.002
33	28.81	11.65	6.88	0.949	-68	2.41	13.5	325	1.002
36	28.81	11.40	6.88	0.947	-67	2.33	13.4	300	1.002

End Purge Time: 1226

Water sample: SB915-0044-03

Time collected: 1335

Physical appearance at start

Color: Light Tan

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed: 5 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	4/24/12	Personnel	JWB	Weather	~45°F Rain/wind
Site Name	SB915 Closure	Evacuation Method	Grundfos / Bailer	Well #	SB915-MW-425
Site Location	Camillus, NY	Sampling Method	Low Flow / Bailer	Project #	~~46890~~ 48727

Well information:

Depth of Well *	41.79	ft.
Depth to Water *	37.37	ft.
Length of Water Column	4.42	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1140

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	~~38~~.76	12.07	12.71	50.4	-46	3.18	—	160	
5	39.13	12.48	12.93	50.8	-71	3.05	86.6	160	1.022
10	39.34	12.43	12.97	50.1	-73	2.70	65.3	100	1.022
15	39.67	12.70	12.99	50.0	-74	2.48	52.8	100	1.022
20	39.90	12.30	12.97	50.3	-74	2.62	47.0	150	1.022
25	46.30	14.61	12.93	50.1	-75	2.11	39.8	100	1.022
30	40.35	14.87	12.93	~~49~~.7	-75	1.53	68.2	100	
35	40.42	15.04	12.93	50.5	-75	2.28	126	100	
40	40.49	15.36	12.92	49.5	-75	1.36	126	100	1.022
45	40.75	15.69	12.93	48.7	-73	~~B.~~	100	100	
50	Well went dry								

1230

* 4/25/12
- Using a Bailer to sample well. DTW - 37.35
- @1225 started to sample
- @1235 well went dry
- 1325 Removed more water for samples, went dry
- 1515 Removed more water, well went dry
- 17 Bottles filled, 5 L ambers + short hold time plastics remain. Will fill them on 4/26/12 + submit samples on 4/26/12

* 4/26/12
- # Remaining Amber Liters, + 3 short hold time bottles filled

End Purge Time: 1225

Water sample:

Time collected: 1435

Physical appearance at start

Color: V. light milky

Odor: No

Sheen/Free Product: NO

Density Measurement Start 1.022 End 1.022

Total volume of purged water removed: ~15 gallons

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	4/26/12	Personnel	AMD	Weather	Sunny, 60°F
Site Name	~~WB13 GCA~~ SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-WB-7L
Site Location	Camillus, NY	Sampling Method	low flow	Project #	~~40096~~ 48127

Well information:

Depth of Well * 79.66 ft.
Depth to Water * 9.50 ft.
Length of Water Column ft.
SB915-0043-03

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: ~~1030~~ 1100 (ED)

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	9.35	13.83	12.80	56.4	-41	3.14	35.5	200	1,028
5	9.62	14.00	12.53	56.8	-75	0.00	21.5	100	1,032
10	9.66	14.32	12.63	57.6	-92	0.00	16.5	120	
15	9.65	14.71	12.67	58.1	-101	0.00	11.9	120	
20	9.65	15.22	12.69	58.9	-109	0.00	14.3	120	
25	9.64	15.73	12.70	58.2	-119	0.00	13.0	100	
30	9.65	16.17	12.71	58.4	-126	0.00	14.8	100	
35	9.68	16.54	12.74	57.7	-137	0.00	11.3	100	
40	9.65	16.74	12.76	57.7	-139	0.00	8.24	120	
45	9.67	16.92	12.77	57.9	-145	0.00	11.3	120	
50	9.68	17.09	12.79	57.7	-148	0.00	8.41	120	
55	9.68	17.11	12.80	57.7	-150	0.00	10.7	100	
60	9.68	17.12	12.80	57.7	-153	0.00	8.18	100	1,024

End Purge Time: 1200

Density Measurement Start 1,028 End 1,024

Total volume of purged water removed: 2 gallons

Water sample:
Time collected: 1410

Physical appearance at start
Color: clear
Odor: none
Sheen/Free Product: none

Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date: 4/26/12 | Personnel: STW | Weather: 50/sunny/partly cloudy

Site Name: ~~WB13-SCA~~ SB915 closure | Evacuation Method: Grundfos | Well #: SB915-MB-074

Site Location: Camillus, NY | Sampling Method: Grundfos | Project #: ~~40398~~ 48127

SB915-0043-02

Well Information:

Depth of Well *: 55.80 ft.

Depth to Water *: 9.05 ft.

Length of Water Column: _____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 10:56

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
11:05 0	9.10	13.27	5.96	30.2	6	0.00	879	160
5	9.12	13.42	6.01	30.7	-9	0.00	6163	240
10	9.08	13.59	6.03	30.0	-16	0.00	382	240
15	9.08	13.77	6.04	30.0	-21	0.00	287	240
20	9.10	13.87	6.05	29.9	-23	0.00	231	240
25	9.10	13.72	6.06	30.4	-24	0.00	205	260
30	9.08	13.59	6.06	30.4	-25	0.00	185	200
35	9.10	13.76	6.07	30.0	-25	0.00	181	200
40	9.10	13.81	6.07	29.8	-26	0.00	177	160
45	9.10	13.78	6.07	30.4	-27	0.00	184	160
50	9.10	13.93	6.09	29.9	-28	0.00	178	120
55	9.10	14.00	6.08	29.8	-28	0.00	168	100
60	9.10	13.85	6.09	29.8	-28	0.00	167	100
65	9.08	14.07	6.09	29.5	-28	0.00	157	100
70	9.08	14.07	6.08	29.6	-28	0.00	143	100
75	9.10	13.83	6.08	30.0	-28	0.00	148	100
80	9.08	13.90	6.08	29.8	-28	0.00	144	100
85	9.10	14.12	6.08	29.4	-28	0.00	124	100
90	9.08	14.30	6.08	29.6	-28	0.00	118	100
95	9.10	14.38	6.08	29.3	-28	0.00	123	100
100	9.10	14.35	6.08	29.8	-28	0.00	114	100
105	9.08	14.50	6.09	29.4	-29	0.00	108	100
110	9.10	14.18	6.09	29.9	-29	0.00	99.8	100
115	9.08	14.10	6.09	29.7	-29	0.00	95.6	100
End Purge Time: 120	1430 9.08	13.92	6.09	29.8	-29	0.00	103	100

SPG 1.020

1.016

Water sample:

Time collected: 1427

Density Measurement: Start 1.020 End 1.016

Total volume of purged water removed: _____

Physical appearance at start

Color: Brown/rusty colored

Odor: none

Sheen/Free Product: none

Physical appearance at sampling

Color: mostly clear/some rusty coloring

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/26/12	Personnel	EBR	Weather	Overcast 50°
Site Name	~~WP13SCA~~ SB915Closure	Evacuation Method		Well #	SB915-MW-1105
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	~~40696~~ 48127

Well information:

Depth of Well *	20.13	ft.
Depth to Water *	3.52	ft.
Length of Water Column	16.61	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1100

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	(3.53) 4.45*	9.52	6.44	6.17	-37	0.50	96.0	350	1.006
5	4.98	9.42	6.65	6.42	-61	0.00	34.7	250	1.005
10	4.98	9.73	6.69	6.60	-68	0.00	21.2	250	1.005
15	5.00	10.04	6.71	6.73	-72	0.00	11.6	230	1.004
20	5.01	10.26	6.71	6.85	-75	0.00	6.56	250	1.004
25	5.02	10.29	6.72	6.94	-76	0.00	4.60	250	1.004
30	5.04	10.25	6.72	7.01	-78	0.00	2.74	250	1.004

End Purge Time: 1130

Water sample:

Time collected: 1215

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.006 End 1.004

Total volume of purged water removed: 3 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0043-05

* Well casing below protective casting ; took DTW during sampling from meter.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	4/26/12	Personnel	LSK	Weather	Sunny - 50°F
Site Name	~~WB43-SCA~~ SB915-Closure	Evacuation Method	Grundfos	Well #	SB915-IMW-02S
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	~~46608~~ 48127

Well information:

Depth of Well *	20.63	ft.
Depth to Water *	4.30	ft.
Length of Water Column	16.33	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1005

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	5.74	11.82	5.61	56.4	35	0.00	242	100	1.027
10	5.95	12.03	6.07	57.4	13	0.00	231	100	
15	6.00	12.15	6.17	58.0	16	0.00	93.7	75	1.028
20	6.10	12.43	6.24	58.5	66	0.00	73.0	75	
30	6.24	12.99	6.29	58.0	56	0.00	44.6	75	1.026
35	6.27	13.24	6.31	57.8	52	0.00	37.2	75	
40	6.27	13.42	6.32	57.8	47	0.00	34.8	75	1.025
45	6.28	13.51	6.33	57.4	41	0.00	30.2	75	
50	6.28	13.71	6.34	57.9	40	0.00	23.7	75	1.025

End Purge Time: 1055

Water sample: SB915-0243-01

Time collected: 1313

Physical appearance at start

Color: Light Brown

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.027 End 1.025

Total volume of purged water removed:

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

X Changed Horiba batteries

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	04/26/12	Personnel	RDH	Weather	±50's, Cloudy/Showers
Site Name	~~WB13 SCA~~ Closure	Evacuation Method	Grundfos Pump	Well #	SB915-WB-07BR
Site Location	Camillus, NY	Sampling Method	Grundfos Pump	Project #	~~46698~~ 48127

Well information:

Depth of Well * 114.59 ft.

Depth to Water * (ND) ~~14.79~~ 11.77 ft.

Length of Water Column 102.82 ft.

SB915-0043-04

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1048

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SpG
1050 0	15.31	14.21	5.59	>100.0	167	2.07	91.3	300	1.110
5	16.19	13.81	6.46	>100.0	130	0.29	110	300	
10	17.03	13.80	6.70	>100.0	106	0.00	89.4	300	
15	18.21	13.93	6.89	>100.0	71	0.00	76.9	200	
20	19.38	13.92	6.99	>100.0	48	0.00	63.4	300	
25	20.31	14.11	7.06	>100.0	37	0.00	60.9	300	
30	21.03	14.33	7.11	>100.0	32	0.00	52.6	300	
35	21.79	14.38	7.14	>100.0	29	0.00	50.6	200	
40	22.56	14.51	7.19	>100.0	28	0.00	51.0	100	
45	22.96	14.74	7.22	>100.0	28	0.00	50.7	100	
50	23.47	15.16	7.23	>100.0	29	0.00	48.6	200	
55	23.86	15.43	7.26	>100.0	30	0.00	48.4	100	
60	24.01	15.56	7.26	>100.0	30	0.00	47.8	100	1.110

End Purge Time: 1338

Water sample:

Time collected: 1335

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.110 End 1.110

Total volume of purged water removed: ~5.5 gallons

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/25/12	Personnel	AMD	Weather	50°F, cloudy
Site Name	~~WB13-SCA~~ SB915 closure	Evacuation Method	Grundfos Pump	Well #	SB915-IM~~W~~ 035
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	~~10000~~ 48127

Well information:

Depth of Well * 26.10 ft.
Depth to Water * 7.62 ft.
Length of Water Column ____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1300

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.30	10.58	7.48	63.8	-120	1.84	85.5	100	1.032
5	8.63	10.72	6.68	58.1	-89	0.08	60.7	120	1.028
10	8.69	10.75	6.39	53.4	-82	0.00	53.9	160	1.020
15	8.82	10.88	6.10	51.9	-77	0.00	66.2	100	1.020
20	8.87	10.99	6.06	51.6	-77	0.00	67.8	120	1.020
25	8.89	11.10	6.01	51.8	-76	0.00	77.3	160	1.026
30	8.01	11.21	5.98	51.9	-77	0.00	78.7	120	1.028
35	9.06	11.28	5.94	51.8	-77	0.00	77.8	120	1.026
40	9.09	11.34	5.93	51.9	-76	0.00	77.9	120	1.028
45									

End Purge Time: 1340

Water sample:

Time collected: 1500

Physical appearance at start
Color: clear
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.032 End 1.028

Total volume of purged water removed: 2 gallons

Physical appearance at sampling
Color: slight cloudiness
Odor: none
Sheen/Free Product: none

SB915-0042-07

Field Test Results:
Dissolved ferrous iron: ____
Dissolved total iron: ____
Dissolved total manganese: ____
Dissolved Oxygen: ____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date: 4/25/12 | Personnel: EBR | Weather: Rain 44°
Site Name: SB915 Closure | Evacuation Method: | Well #: SB915-TMW-04S
Site Location: Camillus, NY | Sampling Method: Peristaltic | Project #: 46698

Well information:

Depth of Well * 17.75 ft.
Depth to Water * 8.45 ft.
Length of Water Column 9.30 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1210

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.78	8.46	7.39	12.7	-100	3.51	40.3	210	1.006
5	8.99	8.37	7.81	12.6	-128	0.00	32.8	240	1.008
10	9.08	8.35	7.78	12.4	-130	0.00	39.4	240	1.008
15	9.20	8.33	7.58	12.3	-122	0.00	30.0	280	1.008
20	9.21	8.33	7.49	12.1	-119	0.00	26.8	260	1.008
25	9.23	8.32	7.43	11.7	-118	0.00	13.5	240	1.008
30	9.26	8.34	7.52	11.3	-121	0.00	8.58	240	1.008

End Purge Time: 1240

Density Measurement Start 1.006 End 1.008

Total volume of purged water removed: 2.5 gals.

Water sample:

Time collected: 1405

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0042-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date: 4/25/12 | Personnel: RDH, SJW | Weather: 40/overcast/showers
Site Name: SB915 Closure | Evacuation Method: Grundfos Pump | Well #: SB915-IMW-05S
Site Location: Camillus, NY | Sampling Method: Low Flow | Project #: 46698

Well information:

Depth of Well *: 18.11 ft.
Depth to Water *: 4.13 ft.
Length of Water Column: ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 11:18 AM

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SPG
			9.71	23.8	-261	0.61	26.4	360	1.015
11:20 0	4.58	10.03	10.32	23.6	-296	0.00	7.42	360	
5	4.60	10.31	10.52	23.7	-310	0.00	3.64	380	
10	4.62	10.57	10.68	23.9	-321	0.00	4.66	360	
15	4.65	10.59	10.78	24.1	-328	0.00	2.00	360	
20	4.60	10.59	10.87	24.2	-333	0.00	1.63	360	
25	4.60	10.55	10.91	24.4	-337	0.00	1.60	280	
30	4.54	10.50	10.95	24.3	-341	0.00	1.43	300	1.016
35	4.54	10.64							

End Purge Time: 12:45

Density Measurement Start 1.015 End 1.016

Water sample:
Time collected: 12:43
Total volume of purged water removed: ~7 gallons

Physical appearance at start
Color: clear
Odor: none
Sheen/Free Product: none

Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date: 4/25/12
Site Name: SB915 Closure
Site Location: Camillus, NY
Personnel: AMD
Evacuation Method: Grundfos pump
Sampling Method: low-flow
Weather: 50°F, light drizzle
Well #: SB915-IMW-069
Project #: ~~40698~~ 48127

Well information:

Depth of Well *: 15.32 ft.
Depth to Water *: 3.82 ft.
Length of Water Column: ____ ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1100

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	4.07	10.39	12.63	20.0	-233	4.61	24.0	350	1.014
5	4.11	10.43	12.74	20.2	-264	0.00	8.63	350	1.014
10	4.09	10.48	12.75	20.3	-276	0.00	7.05	280	1.012
15	4.02	10.58	12.76	20.4	-283	0.00	6.71	260	1.006
20	4.07	10.72	12.77	20.4	-289	0.00	6.77	260	1.006
25	4.05	10.95	12.76	20.5	-292	0.00	5.38	260	1.008
30	4.05	11.01	12.77	20.6	-295	0.00	4.81	260	1.012
35	4.05	10.96	12.78	20.6	-290	0.00	5.06	260	1.012
40	4.06	10.96	12.79	20.6	-300	0.00	5.04	260	1.008

End Purge Time: 1140

Density Measurement Start 1.014 End 1.008

Total volume of purged water removed: 5 gallons

Water sample:

Time collected: 1215

Physical appearance at start
- Color: clear
- Odor: none
- Sheen/Free Product: none

Physical appearance at sampling
- Color: clear
- Odor: none
- Sheen/Free Product: none

Field Test Results:
- Dissolved ferrous iron: ____
- Dissolved total iron: ____
- Dissolved total manganese: ____
- Dissolved Oxygen: ____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	4/23/12	Personnel	RDH/SJW	Weather	± 40's, Showers
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-WR-09L
Site Location	Camillus, NY	Sampling Method	Grundfos Pump	Project #	~~48098~~ 48127

Well information:

Depth of Well * 74.75 ft.
Depth to Water * 5.42 ft.
Length of Water Column 69.33 ft.

SB915-0041-01 / SB915-0041-02 (FD)

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1312

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SpG
1315 0	5.44	13.41	6.85	66.9	-39	0.00	>1000	410	1.051
5	5.33	13.24	6.53	72.6	-46	0.00	>1000	500	
10	5.32	13.20	6.47	71.2	-45	0.00	>1000	500	1.050
15	5.34	13.08	6.44	78.7	-43	0.00	>1000	500	
20	5.36	12.95	6.48	80.0	-40	0.00	>1000	500	1.050
25	5.38	12.80	6.50	79.5	-34	0.00	>1000	460	
30	5.39	12.69	6.37	76.3	-35	0.00	>1000	480	1.050
35	5.39	12.55	6.35	79.1	-34	0.00	>1000	480	
40	5.39	12.43	6.34	79.6	-35	0.00	>1000	480	1.050
45	5.39	12.38	6.33	81.1	-35	0.00	>1000	480	
50	5.39	12.32	6.33	81.6	-35	0.00	>1000	500	1.050
55	5.39	12.29	6.32	81.4	-35	0.00	>1000	500	
60	5.39	12.30	6.32	77.2	-35	0.00	>1000	500	1.050
65	5.37	12.21	6.32	71.5	-35	0.00	>1000	220	
70	5.35	12.03	6.32	81.7	-34	0.00	>1000	200	1.050
75	5.36	11.83	6.32	83.4	-34	0.00	>1000	220	
80	5.36	11.63	6.32	81.1	-33	0.00	>1000	220	1.050
85	5.37	11.55	6.32	75.0	-31	0.00	>1000	220	
90	5.37	11.50	6.32	78.1	-30	0.00	>1000	200	1.050
95	5.37	11.42	6.32	77.1	-30	0.00	981	200	
100	5.37	11.31	6.32	79.1	-29	0.00	935	220	1.050
105	5.37	11.34	6.32	75.6	-28	0.00	881	220	
110	5.36	11.30	6.32	67.1	-28	0.00	801	220	1.050

End Purge Time: 1648

Water sample:

Time collected: 1645

Physical appearance at start
Color: Brown
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.051 End 1.046

Total volume of purged water removed: ~ 34 gallons

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

* Indicates that on 04/24/12, conductivity probe on Horiba U-52 was not functioning properly.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/23/12 – 4/24/12	Personnel	RDH / SJW	Weather	± 40's, Showers
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915 - WB - 09L
Site Location	Camillus, NY	Sampling Method	Grundfos Pump	Project #	46698

Well information:

Depth of Well * 74.75 ft.
Depth to Water * 5.40 ft.
Length of Water Column ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1032

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) * Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SpG
115	5.35	11.25	6.32	76.6	-28	0.00	717	200	
120	5.35	11.15	6.33	83.1	-28	0.00	647	220	1.050
125	5.35	11.15	6.33	78.6	-28	0.00	575	220	
130	5.35	11.22	6.32	79.0	-27	0.00	528	200	1.050
135	5.35	11.09	6.33	82.7	-27	0.00	479	200	
140	5.35	11.20	6.33	64.5	-28	0.00	411	200	1.050
145	5.34	11.12	6.33	75.0	-28	0.00	354	200	
150	5.34	11.12	6.33	80.1	-28	0.00	326	180	1.050
155	5.34	11.06	6.33	80.6	-28	0.00	295	200	
160	5.33	11.09	6.33	79.7	-28	0.00	262	200	1.050
165	5.34	11.02	6.33	82.6	-28	0.00	261	200	
170	5.33	11.03	6.33	84.5	-27	0.00	225	190	1.050
175	5.35	11.02	6.33	84.5	-28	0.00	202	190	
180	5.34	10.98	6.33	78.4	-27	0.00	180	190	1.050
185	5.33	11.11	6.33	81.8	-27	0.00	171	180	
190	5.34	11.00	6.33	80.9	-27	0.00	177	180	
Stopped Pump. Removed approximately 14 gallons from well. Will resume pumping on 04/24/12.									
1035 0	5.42	12.30	6.65	47.9	6	5.98	>1000	180	1.044
5	5.40	11.71	6.70	69.2	-7	5.26	>1000	220	
10	5.40	11.54	6.74	57.1	-10	5.06	>1000	220	1.042
15	5.40	11.43	6.74	53.8	-11	4.91	>1000	220	
20	5.40	11.45	6.73	69.2	-13	4.26	>1000	220	1.044
25	5.40	11.37	6.73	68.3	-13	3.94	>1000	220	

End Purge Time:

Water sample:
Time collected:
Physical appearance at start
Color
Odor
Sheen/Free Product

Density Measurement Start End
Total volume of purged water removed:
Physical appearance at sampling
Color
Odor
Sheen/Free Product

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	04/24/12	Personnel	RDH / SJW	Weather	± 40's, Partly Cloudy / showers
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915 - WB - 09L
Site Location	Camillus, NY	Sampling Method	Grundfos Pump	Project #	46698

Well Information:

Depth of Well * _____ ft.
Depth to Water * _____ ft.
Length of Water Column _____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) * Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SpG
30	5.40	11.50	6.71	75.3	-12	3.71	>1000	220	1.043
35	5.40	11.58	6.71	58.8	-12	3.60	934	220	
40	5.40	11.45	6.72	67.2	-13	3.21	793	220	1.044
45	5.40	11.62	6.73	56.6	-13	3.10	604	220	
50	5.40	11.65	6.73	63.9	-14	2.95	551	220	1.044
55	5.38	11.80	6.72	68.9	-15	2.62	514	220	
60	5.38	11.90	6.73	58.2	-15	2.51	427	220	1.044
65	5.38	11.86	6.73	67.2	-15	2.21	395	220	
70	5.38	11.85	6.73	62.8	-15	2.08	354	220	1.044
75	5.38	11.89	6.71	74.3	-16	1.86	304	220	
80	5.38	12.18	6.73	57.6	-17	1.86	284	220	1.044
85	5.38	12.42	6.73	65.5	-17	1.62	242	220	
90	5.38	12.29	6.74	61.4	-17	1.51	209	220	1.044
95	5.38	12.45	6.71	57.9	-18	1.24	208	220	
100	5.40	13.08	6.73	57.4	-18	1.15	185	220	1.044
105	5.40	12.76	6.73	64.4	-18	1.02	173	220	
110	5.38	12.35	6.74	55.4	-18	0.90	156	220	1.044
115	5.38	12.32	6.74	48.9	-17	0.77	155	220	
120	5.38	12.25	6.74	57.8	-18	0.65	144	220	1.044
125	5.38	12.84	6.70	61.9	-19	0.51	143	220	
130	5.38	12.99	6.72	52.7	-19	0.46	123	220	1.042
135	5.38	13.36	6.71	51.9	-19	0.37	125	220	
140	5.38	13.49	6.73	50.1	-18	0.29	124	220	1.042

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	04/24/12	Personnel	RDH / SJW	Weather	± 40's, Showers, Partly Sunny
Site Name**	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-WB-09L
Site Location	Camillus, NY	Sampling Method	Grundfos Pump	Project #	46698

Well information:

Depth of Well * _____ ft.

Depth to Water * _____ ft.

Length of Water Column _____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) * Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
145	5.40	13.59	6.71	62.0	-20	0.19	114	220	SP6
150	5.38	13.60	6.72	48.4	-19	0.11	109	200	1.042
155	5.38	13.37	6.73	54.7	-19	0.02	106	220	
160	5.38	14.02	6.72	53.9	-20	0.00	84.2	200	1.044
165	5.38	14.03	6.72	52.0	-19	0.00	96.1	200	
170	5.38	13.83	6.74	27.4	-18	0.00	81.0	200	1.040
175	5.38	13.83	6.73	1.53	-18	0.00	75.0	200	
180	5.38	14.02	6.69	42.3	-20	0.00	69.5	200	1.044
185	5.38	14.31	6.72	48.1	-19	0.00	65.2	200	
190	5.40	14.20	6.72	57.9	-19	0.00	63.0	200	1.042
195	5.38	14.41	6.71	49.1	-19	0.00	55.6	200	
200	5.38	14.82	6.73	56.2	-18	0.00	53.2	200	1.044
205	5.38	14.07	6.74	49.6	-17	0.00	48.9	200	
210	5.38	13.82	6.76	51.1	-17	0.00	47.8	200	1.045
215	5.38	12.39	6.73	56.9	-17	0.00	42.6	200	
220	5.38	12.14	6.74	58.4	-17	0.00	42.1	160	1.046
225	5.38	12.01	6.75	60.3	-17	0.00	40.7	160	
228	5.40	11.70	6.73	51.5	-16	0.00	39.2	160	1.044
231	5.40	11.95	6.74	42.4	-16	0.00	38.8	160	
234	5.40	12.15	6.73	62.6	-17	0.00	31.8	160	1.046
237	5.40	12.02	6.72	61.5	-16	0.00	33.6	160	

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/24/12	Personnel	AMD	Weather	windy, some sun, some drizzle
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-42I
Site Location	Camillus, NY	Sampling Method	low-flow	Project #	48127

Well information:

Depth of Well *	70.08 ft.	* Measurements taken from	
Depth to Water *	45.30 ft.	X	Top of Well Casing
Length of Water Column	24.78 ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 11:45

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	49.78	10.67	11.62	89.3	-68	6.34	57.8	160	1,054
5	49.76	10.78	11.76	87.1	-77	0.23	43.5	210	1,050
10	50.11	10.86	11.82	87.7	-83	0.00	39.2	100	1,052
15	50.55	11.17	11.84	88.5	-86	0.00	32.7	100	1,046
20	50.64	11.43	11.84	88.8	-87	0.00	33.8	100	1,040
25	50.74	11.61	11.85	88.6	-88	0.00	28.6	80	1,042
30	50.93	11.50	11.86	88.9	-88	0.00	28.8	180	1,052

End Purge Time: 1215

Water sample:

Time collected: 1500

Physical appearance at start

Color: clear

Odor: none

Sheen/Free Product: none

Density Measurement Start 1.054 End 1.052

Total volume of purged water removed: 2 gallons

Physical appearance at sampling

Color: clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/24/12	Personnel	JWB	Weather	~50° F Rain/Wind
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-420
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	133.40	ft.
Depth to Water *	67.75	ft.
Length of Water Column	65.65	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1250

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	67.80	13.25	11.52	56.3	-97	5.17	93.2	400	1.042
5	67.85	12.58	8.93	85.6	-144	3.28	796	400	1.042
10	67.85	12.51	8.00	97.2	-122	2.72	71000	360	
15	67.82	12.97	7.59	>100	-110	2.74	>1000	260	
20	67.85	13.10	7.44	>100	-102	2.09	720	400	
25	67.82	13.17	7.34	>100	-93	2.32	503	240	1.054
30	67.82	13.38	7.26	>100	-89	1.94	410	280	1.054
35	67.82	13.35	7.21	>100	-85	1.63	269	240	
40	67.82	13.10	7.18	>100	-81	1.44	177	260	
45	67.82	13.22	7.14	>100	-78	0.87	112	260	
50	67.82	13.28	7.12	>100	-77	0.00	94.1	260	1.054
55	67.82	13.24	7.11	>100	-76	0.00	83.4	260	1.054
60	67.82	13.00	7.10	>100	-76	0.00	88.3	260	
65	67.82	13.27	7.09	>100	-75	0.00	78.5	260	
68	67.82	13.17	7.09	>100	-75	0.00	57.5	260	
72	67.82	13.10	7.08	>100	-75	0.00	52.4	260	
75	67.82	13.08	7.08	>100	-75	0.00	54.3	260	

End Purge Time: 1400

Water sample:

Time collected: 1435

Physical appearance at start

Color: clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.042 End 1.054

Total volume of purged water removed:

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/23/12	Personnel	EBR/AMD	Weather	Rain 41°
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-090
Site Location	Camillus, NY	Sampling Method		Project #	~~45698~~, 48127

Well information:

Depth of Well *	14.56	ft.
Depth to Water *	10.14	ft.
Length of Water Column	4.42	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1310

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	11.19	12.84	6.47	4.20	-76	0.0	38.8	200	1.004
5	11.90	11.38	6.39	13.3	-114	0.0	128	200	1.012
10	12.01	11.12	10.72	21.6	-239	0.0	66.3	200	1.012
15	12.16	10.95	11.32	23.0	-248	0.0	16.9	200	1.014
20	12.20	10.81	11.72	24.3	-264	0.0	5.93	200	1.012
25	12.23	10.73	11.88	24.8	-272	0.0	3.88	200	1.012
30	12.24	10.69	11.96	25.0	-273	0.0	2.86	200	1.012

End Purge Time: 1340

Water sample:

Time collected: 1450

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.004 End 1.012

Total volume of purged water removed: 2.5 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. **Low Flow Ground Water Sampling Log**

Date	4/23/12	Personnel	EBR	Weather	
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-WB-DU
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	~~46698~~ 48127

Well information:

Depth of Well * 19.18 ft.

Depth to Water * 7.41 ft.

Length of Water Column 11.77 ft. ,163

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time:

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
1345	10.50	11.47	6.31	23.8	-60	0.00	625	175	1.014
	11.57	11.60	6.30	23.6				125	
		Pump	Failed						
1410 0	13.60	12.79	6.49	28.5	-75	0.00	>999	200	1.016
5	13.62	12.71	6.53	28.5	-89	0.00	>999	150	
10	13.62	12.60	6.54	28.7	-98	0.00	>999	100	1.016
15	13.91	12.50	6.52	28.9	-102	0.00	>999	100	
* 25	14.04	12.48	6.50	29.3	-108	0.00	>999	75	
30	13.95	12.35	6.49	29.8	-109	0.00	>999	<50	
11:05	4/24/12	EBR							
0	8.57	11.24	6.30	44.4	-72	26.5	34.6	200	
5	9.80	10.96	6.59	44.8	-89	0.0	43.6	180	
10	10.28	10.90	6.66	43.6	-84	0.0	52.3	200	
15	10.62	10.90	6.70	42.7	-75	0.0	56.9	160	
20	11.05	10.91	6.74	40.9	-61	0.0	68.4	140	
25	11.25	10.94	6.74	40.3	-53	0.0	64.7	160	
30	11.60	10.96	6.74	40.9	-49	0.0	58.9	160	

End Purge Time: 1135

Water sample:

Time collected: 1420

Physical appearance at start

Color Dark Brown

Odor None

Sheen/Free Product None

Density Measurement Start 1.014 End

Total volume of purged water removed: 8 gals.

Physical appearance at sampling

Color Clear

Odor None

Sheen/Free Product None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0041-03

* increased pump rate

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/23/12	Personnel	JWB	Weather	250°F Rain
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-WR-10L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	~~46698~~ 48127

Well Information:

Depth of Well * 74.42 ft.
Depth to Water * 6.21 ft.
Length of Water Column 68.21 ft.

* Measurements taken from
- X Top of Well Casing
- Top of Protective Casing
- (Other, Specify)

Start Purge Time: 1345

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	6.21	12.06	6.24	96.2	-39	0.00	71000	500	Density 1.056
5	6.21	12.29	6.23	97.4	-50	0.00	71000	500	
10	6.21	12.43	6.27	99.2	-26	0.00	71000	500	
15									
20	6.21	12.45	6.23	7100	-46	0.00	71000	500	
25	6.21	12.49	6.22	7100	-46	0.00	71000	500	
30	6.21	12.54	6.21	7100	-47	0.00	71000	500	
35	6.21	12.46	6.21	7100	-47	0.00	71000	500	
40	6.21	12.49	6.20	7100	-46	0.00	71000	500	
45	6.21	12.54	6.20	7100	-46	0.00	71000	500	
50	6.21	12.57	6.20	7100	-46	0.00	71000	500	
55	6.21	12.58	6.20	7100	-46	0.00	71000	500	
60	6.19	12.44	6.20	7100	-46	0.00	992	300	
65	6.19	12.18	6.21	7100	-45	0.00	754	300	
70	6.19	12.17	6.21	7100	-44	0.00	633	300	
75	6.19	12.18	6.21	7100	-44	0.00	524	300	
80	6.19	12.22	6.21	7100	-43	0.00	474	300	
85	6.19	12.17	6.21	7100	-43	0.00	417	300	
90	6.19	12.15	6.21	7100	-43	0.00	368	300	1.054
95	6.19	12.19	6.21	7100	-43	0.00	335	300	1.054
100	6.19	12.09	6.21	7100	-43	0.00	287	300	
105	6.19	12.06	6.21	7100	-43	0.00	261	300	
1535 110	6.19	12.00	6.21	7100	-42	0.00	221	300	

End Purge Time:

Water sample:
Time collected:
Physical appearance at start
Color Brown
Odor No
Sheen/Free Product No

Density Measurement Start End
Total volume of purged water removed:
Physical appearance at sampling
Color
Odor
Sheen/Free Product

Field Test Results:
Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	4/23/12	Personnel	JWB	Weather	~50°F Rain
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-WB-10L
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	~~48608~~ 48127

Well information:

Depth of Well *	74.42	ft.
Depth to Water *	6.21	ft.
Length of Water Column	68.21	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: ~~1340~~ 1345

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
1540 115	6.19	11.95	6.21	>100	-42	0.00	204	300	1.054
120	6.19	11.92	6.21	>100	-42	0.00	174	300	
125	6.19	11.91	6.21	>100	-42	0.00	166	300	~~1.054~~
130	6.19	11.89	6.21	>100	-42	0.00	139	300	
135	6.19	11.87	6.21	>100	-42	0.00	132	300	1.054
140	6.19	11.87	6.21	>100	-41	0.00	105	300	
145	6.19	11.84	6.21	>100	-41	0.00	112	300	1.054
150	6.19	11.87	6.21	>100	-41	0.00	107	300	1.054

End Purge Time:

Water sample:

Time collected: 1700

Physical appearance at start

Color: Brown

Odor: No

Sheen/Free Product: No

Density Measurement Start 1.056 End 1.054

Total volume of purged water removed:

Physical appearance at sampling

Color:

Odor:

Sheen/Free Product:

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: ✓

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

Appendix F-2

Round 2 (July 2012) Groundwater Sampling Logs

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/31/12	Personnel	P. Freeyer	Weather	Sunny 81°
Site Name	SB915 Closure	Evacuation Method	Submersible Pump	Well #	SB915-MW-53I
Site Location	Camillus, NY	Sampling Method	Low - Flow	Project #	48127

Well information:

Depth of Well *	73.18	ft.
Depth to Water *	48.39	ft.
Length of Water Column	24.79	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 11:35

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	48.39	23.14	10.87	>100.0 mS	-85	1.65	160	410	
5	52.25	18.26	11.21	>100.0 mS	-198	0.03	96	200	
10	53.54	16.22	11.25	>100.0	-235	0.00	48	180	
15	54.76	17.03	11.23	>100.0	-232	0.00	25	130	
20	54.15	19.07	11.17	>100.0	-244	0.00	27.6	60	
25	54.69	17.45	11.22	>100.0	-247	0.00	33.4	140	
30	55.44	18.65	11.19	>100.0	-252	0.00	33.2	110	
35	55.77	19.15	11.18	>100.0	-258	0.00	21.9	160	
40	56.40	19.15	11.18	>100.0	-263	0.00	16.3	120	
45	56.81	19.30	11.18	>100.0	-268	0.00	21.3	120	
50	57.08	20.24	11.15	>100.0	-273	0.00	14.6	130	
55	57.47	20.30	11.16	>100.0	-275	0.00	24.9	120	1.070
60	57.45	21.49	11.12	>100.0	-280	0.00	15.5	100	
65	57.43	21.89	11.11	>100.0	-282	0.00	22.0	100	
70	57.40	22.16	11.11	>100.0	-281	0.00	16.8	100	
75	57.45	21.84	11.12	>100.0	-279	0.00	11.7	100	
80	57.49	22.18	11.12	>100.0	-282	0.00	11.6	100	
85	57.48	21.25	11.14	>100.0	-283	0.00	10.8	100	

End Purge Time: 1301

Water sample: SB915-0069-08

Time collected: 1350

Density Measurement Start 1.077 End 1.062

Total volume of purged water removed: ~3.5 gal

Physical appearance at start

Color: Clear-ish tan

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:	N/A
Dissolved total iron:	N/A
Dissolved total manganese:	N/A
Dissolved Oxygen:	N/A

Notes: Head continually dropping, pumping rate increased to compensate for the drop in head.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date		Personnel		Weather	
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-43S
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well information:

Depth of Well *	46.77	ft.
Depth to Water *	43.70	ft.
Length of Water Column	3.07	ft.

* Measurements taken from

- [ ] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1055

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	44.58	21.31	11.53	8.27	-101	2.45	78.0	120
5								
10								
15								

1.004

End Purge Time:

Water sample:

Time collected:

Physical appearance at start

Color

Odor

Sheen/Free Product

Density Measurement Start End

Total volume of purged water removed:

Physical appearance at sampling

Color

Odor

Sheen/Free Product

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/30/12	Personnel	TBP	Weather	~90°F Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915 MW-104S
Site Location	Camillus, NY	Sampling Method	Peristaltic Pump	Project #	48127

Well information:

Depth of Well * 25.97 ft.
Depth to Water * 10.41 ft.
Length of Water Column ~~2.63~~ ft.
1well vol 2.5 gal

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1100

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	11.73	17.51	5.60	>100	110	.93		300	1.060
5	14.96	16.90	5.88	>100	16	.02		200	
10	15.70	18.28	5.94	>100	-13	.00		~~300~~ 100	
15	16.56	19.66	5.99	>100	-23	.00		75	
	Pumped well dry ~9 gal of water								
7.31.12	Used Peristaltic Pump to sample + fill bottles								

End Purge Time: NA

Water sample:
Time collected: 938 7/31/12
Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.060 End 1.060
Total volume of purged water removed: 9 gallons
Physical appearance at sampling
Color: clear
Odor: no
Sheen/Free Product: no

Field Test Results:
Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

00:21 55:52

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date: 7.31.12 | Personnel: YBP | Weather: ~90°F Sunny

Site Name: SB915 Closure | Evacuation Method: Peristaltic Grundfos | Well #: SB915-MW-53D

Site Location: Camillus, NY | Sampling Method: ~~Low Flow~~ Low Flow | Project #: 48127

Well information:

Depth of Well *: 123.90 ft.

Depth to Water *: 68.08 ft.

Length of Water Column: 55.82 ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1305

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	68.11	20.02	7.77	1.08	-91	3.51	284	150	
5	68.11	18.62	7.57	1.21	-135	.13	412	150	
10	68.11	18.60	7.56	1.22	-136	.00	405	150	
15	68.11	18.01	7.56	1.19	-134	.00	405	200	1.000
20	68.11	17.70	7.76	1.19	-131	.00	294	200	
25	68.11	17.33	7.55	1.16	-125	.00	225	200	
30	68.11	17.14	7.55	1.15	-125	.00	166	200	1.002
35	68.11	16.99	7.54	1.16	-124	.00	140	200	
40	68.11	16.71	7.54	1.20	-122	.00	117	200	
45	68.11	16.41	7.54	1.23	-122	.00	97	200	
50	68.11	16.91	7.52	1.27	-121	.00	102	200	
55	68.11	17.53	7.51	1.31	-121	.00	75	160	
60	68.11	17.37	7.51	1.39	-121	.00	76	160	
65	68.11	16.43	7.52	1.41	-121	.00	58	240	
70	68.11	16.22	7.51	1.42	-120	.00	54	240	1.000
75	68.11	16.62	7.50	1.46	-120	.00	54	240	

End Purge Time: 1420

Density Measurement Start 1.000 End 1.000

Total volume of purged water removed: ~40 gallons

Water sample:

Time collected: 1435

Physical appearance at start
- Color: Clear
- Odor: None
- Sheen/Free Product: None

Physical appearance at sampling
- Color: Clear
- Odor: None
- Sheen/Free Product: None

Field Test Results:
- Dissolved ferrous iron: —
- Dissolved total iron: —
- Dissolved total manganese: —
- Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/31/12	Personnel	KJK	Weather	Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-PZ-07D
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well * 65.11 ft.
Depth to Water * 30.27 ft.
Length of Water Column 28.84 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1000

Hz	Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
142.00	0	38.58	16.36	12.38	87.7	-214	1.98	85.4	400	1.020
143.00	5	38.88	17.77	12.44	94.3	-221	0.95	115	100	1.030
144.00	10	39.16	17.90	12.46	94.9	-221	0.92	83.9	100	1.030
145	15	39.68	17.49	12.49	93.4	-226	0.80	38.9	100	1.030
145	20	39.82	17.89	12.48	92.2	-227	0.75	48.7	75	1.030
146	25	40.13	17.92	12.49	89.8	-229	0.63	71.2	100	1.050
147	30	40.51	17.67	12.50	88.7	-233	0.56	87.1	100	1.028
147	35	40.56	18.34	12.48	87.0	-234	0.52	119	100	1.028
147	40	40.65	18.45	12.48	86.6	-236	0.48	163	100	1.028
148	45	41.10	17.58	12.52	85.0	-238	0.44	166	175	1.028
148	50	41.16	18.72	12.47	83.3	-243	0.35	201	100	1.028
148	55	41.28	18.70	12.47	85.2	-248	0.30	254	100	1.028
148	60	41.28	19.07	12.46	84.5	-251	0.24	209	100	1.028
148	65	41.28	19.03	12.45	86.7	-255	0.20	218	100	1.028
149	70	41.28	18.93	12.44	90.5	-261	0.14	244	100	1.028
148	75	41.14	19.36	12.42	93.8	-267	0.10	224	100	1.030
148	80	41.11	19.11	12.41	96.9	-276	0.05	306	100	1.032
148	85	41.13	19.70	12.40	98.4	-282	0.01	356	100	1.032
148	90	41.08	19.74	12.40	99.9	-287	0.00	348	100	1.032
148	95	41.06	19.41	12.49	7100	-290	0.00	292	100	1.032
148	100	41.00	19.63	12.41	7100	-293	0.00	264	100	1.034
	105	40.98	19.87	12.40	7100	-294	0.00	258	100	1.034
148	110	40.93	19.54	12.41	7100	-296	0.00	266	100	1.034

End Purge Time: 1320 (SEE BACK)

Water sample: SB915-0069-05

Time collected: 1400

Density Measurement Start 1.020 End 1.040

Total volume of purged water removed: 5 gal

Physical appearance at start
Color White/Cloudy
Odor None
Sheen/Free Product None

Physical appearance at sampling
Color Cloudy
Odor None
Sheen/Free Product None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — **Low Flow Ground Water Sampling Log**

Date	7/31/12	Personnel	SJW	Weather	high 80s / sunny
Site Name	SB915 Closure	Evacuation Method	grundfos	Well #	SB915-PZ-07I
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well information:

Depth of Well *	42.10	ft.	
Depth to Water *	29.08	ft.	
Length of Water Column		ft.	

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

SB915-0069-02
SB915-0069-03 MS
SB915-0069-04 MSD

Start Purge Time: 1015

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
1020 0	30.81	17.01	13.09	74.4	-254	2.85	22.8	380
5	30.78	17.24	13.07	76.4	-273	1.92	36.8	380
10	30.69	17.50	13.04	79.6	-281	1.18	29.5	340
15	30.68	17.716	13.01	81.7	-286	0.75	23.1	320
20	30.72	17.85	13.00	83.0	-289	0.45	16.3	340
25	30.72	17.716	12.99	84.1	-294	0.14	10.8	340
30	30.76	17.95	12.98	84.5	-2916	0.00	7.44	340
35	30.78	17.99	12.98	84.9	-299	0.00	4.53	320
1100 40	30.74	17.93	12.99	85.4	-302	0.00	3.46	320
45	30.72	18.08	12.98	85.5	-305	0.00	3.916	350

End Purge Time: 1105

Water sample:
Time collected: 1127
Physical appearance at start
Color: clear
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.031 End 1.040
Total volume of purged water removed: ~1 gal
Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/31/12	Personnel	JAK	Weather	~ 85°F, Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-PZ-075
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well * 20.14 ft.
Depth to Water * 16.09 ft.
Length of Water Column 14.05 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1010

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	16.41	22.57	13.58	8.19	-145	0.00	22.9	200	1.004
5	16.72	20.50	13.66	8.33	-148	0.00	14.0	200	
10	16.69	19.56	13.67	8.66	-149	0.00	9.33	120	1.004
15	16.68	19.62	13.66	8.62	-151	0.00	9.45	120	
20	16.66	19.85	13.65	8.35	-152	0.00	6.30	120	
25	16.67	19.58	13.66	8.61	-152	0.00	7.04	120	1.004
30	16.69	19.60	13.66	8.56	-152	0.00	6.44	120	
35	16.71	19.38	13.68	8.62	-152	0.00	3.37	120	
40	16.73	19.67	13.69	8.61	-153	0.00	3.06	120	1.004
45	16.74	19.29	13.68	8.59	-152	0.00	2.85	120	

End Purge Time: 1055

SB915-0069-01

Water sample:
Time collected: 1115

Density Measurement Start 1.004 End 1.004
Total volume of purged water removed: ~3.0 gal

Physical appearance at start
Color: Clear
Odor: NONE
Sheen/Free Product: NONE

Physical appearance at sampling
Color: Clear
Odor: NONE
Sheen/Free Product: NONE

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/26/2012	Personnel	P. Freyer	Weather	Mostly Cloudy, ~70°F, calm
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-118S
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well * 15.48 ft.
Depth to Water * 6.30 ft.
Length of Water Column 9.13 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0934

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	6.30	22.46	5.16	63.0	-32	2.07	139	320	1.032
5	7.14	18.79	6.30	63.8	-91	0.05	122	340	
10	7.42	19.46	6.45	59.9	-70	0.00	134	240	
15	7.76	19.55	6.48	57.7	-56	0.00	111	240	
20	7.86	19.32	6.50	57.3	-52	0.00	82.4	240	
25	8.02	19.27	6.50	57.4	-50	0.00	71.3	240	1.026
30	8.14	19.15	6.50	57.5	-48	0.00	65.4	250	
35	8.29	19.17	6.49	56.6	-43	0.00	67.3	240	
40	8.42	19.14	6.49	57.5	-43	0.00	71.2	240	1.026
45									

End Purge Time: 1018

Water sample:

Time collected: 1040

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.032 End 1.026

Total volume of purged water removed: 3.5 gal - 4 gal

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: N/A
Dissolved total iron: N/A
Dissolved total manganese: N/A
Dissolved Oxygen: N/A

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

rien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/30/12	Personnel	SJW	Weather	High 80s/sun
Site Name	SB915 Closure	Evacuation Method	Peri pump	Well #	
Site Location	Camillus, NY	Sampling Method		Project #	48127

→ SB915-MW85D

Well information:

Depth of Well *	79.75 ft.	* Measurements taken from	
Depth to Water *	13.17 ft.	X	Top of Well Casing SB915-0068-02
Length of Water Column	ft.		Top of Protective Casing SB915-0068-03
			(Other, Specify)

Start Purge Time: 1203

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
1210 0	13.21	17.07	7.15	100.0	-136	0.0	964	320
5	13.22	15.98	7.17	100.0	-143	0.0	681	400
10	13.22	15.80	7.18	100.0	-145	0.0	497	400
15	13.21	15.960	7.18	100.0	-146	0.0	397	420
20	13.21	15.89	7.18	100.0	-146	0.0	245	400
25	13.21	16.02	7.18	100.0	-147	0.0	224	400
30	13.21	15.80	7.17	100.0	-147	0.0	144	400
35	13.21	15.31	7.18	100.0	-147	0.0	127	400
40	13.21	15.24	7.17	100.0	-147	0.0	118	400
45	13.21	15.33	7.17	100.0	-147	0.0	109	400
50	13.21	14.99	7.17	100.0	-147	0.0	81.2	420
55	13.22	15.11	7.17	100.0	-147	0.0	66.8	420
1310 60	13.22	14.50	7.17	100.0	-147	0.0	64.9	420
65	13.21	14.91	7.16	100.0	-147	0.0	54.3	420
70	13.21	15.02	7.17	100.0	-147	0.0	50.6	420
75	13.21	14.75	7.16	100.0	-146	0.0	48.2	420
80	13.21	14.81	7.16	100.0	-146	0.0	41.3	420
83	13.21	14.96	7.17	100.0	-147	0.0	44.1	420
86	13.21	14.79	7.16	100.0	-146	0.0	44.3	420

End Purge Time: 1336

Water sample:

Time collected: 1355

Physical appearance at start

Color: Cloudy brown

Odor: sulfur

Sheen/Free Product: none

Density Measurement Start 1.061 End 1.060

Total volume of purged water removed: ~12 gal

Physical appearance at sampling

Color: clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/30/12	Personnel	JWB, PAF, JAK, EBR	Weather	~85°F Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WB-03L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 78.04 ft.
Depth to Water * 29.22 ft.
Length of Water Column 48.82 ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1240

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	29.50	13.92	12.46	17.4	-85	3.00	124	320	1.010
5	29.52	16.80	10.68	26.2	-343	0.32	62.7	340	
10	29.54	13.08	8.67	43.2	-208	0.05	59.7	320	
15	29.53	12.87	7.86	48.7	-149	0.00	109.95	320	
20	29.53	13.08	7.39	52.7	-143	0.00	47.5	320	
25	29.53	13.06	7.25	54.9	-134	0.00	36.9	320	
30	29.52	13.36	7.14	55.6	-129	0.00	21.7	320	
35	29.52	12.67	7.03	57.2	-120	0.00	11.8	320	
40	29.52	12.56	6.94	57.8	-113	0.00	5.80	320	
45	29.52	12.63	6.88	58.4	-109	0.00	6.94	320	
50	29.52	12.54	6.84	59.0	-108	0.00	7.63	300	
53	29.55	12.52	6.82	59.5	-106	0.00	7.63	300	
56									

End Purge Time: 1335

Water sample:
Time collected: 1348
Physical appearance at start
Color Clear
Odor No
Sheen/Free Product No

Density Measurement Start 1.010 End 1.026
Total volume of purged water removed: ~5.0 gallons
Physical appearance at sampling
Color Clear
Odor No
Sheen/Free Product No

SB915-0068-01

Field Test Results:
Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/30/12	Personnel	KJK	Weather	Sunny ~83°F
Site Name	SB915 Closure	Evacuation Method	Ground for	Well #	SB915-OB-01L
Site Location	Camillus, NY	Sampling Method	Ground for	Project #	48127

Well information:

Depth of Well * 68.77 ft.
Depth to Water * 26.31 ft.
Length of Water Column ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1105

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	26.44	14.57	6.72	0.719	-146	2.41	47.9	600	1.002
5	26.46	14.36	6.70	1.04	-145	0.25	239	420	1.002
10	26.49	14.58	6.70	1.26	-141	0.10	207	420	1.000
15	26.46	14.69	6.68	1.41	-137	0.00	89.9	400	1.000
20	26.47	14.59	6.67	1.42	-135	0.00	45.7	400	1.000
25	26.47	14.48	6.66	1.43	-134	0.00	32.2	400	1.000
30	26.50	14.32	6.64	1.42	-132	0.00	26.2	420	1.000
45	26.42	14.99	6.64	1.43	-130	0.00	21.5	380	1.000
50	26.42	15.15	6.64	1.43	-130	0.00	12.2	360	1.000
53	26.42	15.15	6.64	1.44	-130	0.00	12.6	360	1.000
56	26.42	15.38	6.64	1.43	-130	0.00	11.3	360	1.000

End Purge Time: 1201

SB915-0068-04

Water sample: SB915-0068-

Time collected: 1250

Density Measurement Start 1.002 End 1.000

Total volume of purged water removed: 12 gal

Physical appearance at start

Color Clear
Odor Yes - Sulfur
Sheen/Free Product None

Physical appearance at sampling

Color Clear
Odor Yes Sulfur
Sheen/Free Product None

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/27/12	Personnel	JWB, KJK	Weather	~85°F Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-1165
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	19.87	ft.
Depth to Water *	5.08	ft.
Length of Water Column	14.79	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1250

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	5.92	23.56	6.45	12.1	-23	2.06	100	200	1.004
5	5.99	23.13	6.59	7.89	-24	5.27	77	200	1.002
10	6.00	22.68	6.74	4.73	-29	5.29	55	200	
15	6.03	22.53	6.78	4.13	-37	5.16	23	200	
20	6.05	22.47	6.80	3.96	-40	5.23	12	200	
25	6.09	22.60	6.81	3.80	-39	4.86	8	200	
30	6.10	22.32	6.82	3.70	-39	5.09	7	200	
~~33~~	6.11	22.19	6.82	3.69	-38	5.12	7	200	
36	6.12	22.22	6.82	3.65	-38	5.13	7	200	

End Purge Time: 1226

Water sample:

Time collected: 1347

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.004 End 1.002

Total volume of purged water removed: ~3 gallons

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0066-06

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7-27-12	Personnel	JWB	Weather	~85°F Sunny
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-36S
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information:

Depth of Well * 20.62 ft.
Depth to Water * 20.55 ft.
Length of Water Column 00.07 ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

X Not enough water to sample X

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:
Time collected: _____
Physical appearance at start
Color _____
Odor _____
Sheen/Free Product _____

Density Measurement Start _____ End _____
Total volume of purged water removed: _____
Physical appearance at sampling
Color _____
Odor _____
Sheen/Free Product _____

Field Test Results:
Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/27/12	Personnel	KJK	Weather	Mostly Sunny ~75°F
Site Name	SB915 Closure	Evacuation Method	Groundfos	Well #	SB915-MW5107BR
Site Location	Camillus, NY	Sampling Method	Groundfos	Project #	48127

Well information:

Depth of Well *	133.55	ft.
Depth to Water *	19.51	ft.
Length of Water Column	114.04	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1035

Hz	Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
96	0	18.25	19.47	5.78	7100	49	0.68	31	150	1.126
102	5	20.02	18.33	5.94	7100	29	0.38	32	220	1.128
104	10	21.01	18.90	6.19	7100	3	0.07	52	180	1.128
106	15	21.87	18.75	6.34	7100	-10	0.00	74	200	1.128
108	20	22.66	18.41	6.37	7106	-14	0.00	76	140	1.128
110	25	23.47	18.34	6.33	7100	-12	0.00	71	180	1.128
110	30	23.90	18.78	6.27	7100	-7	0.00	79	250	1.128
112	35	24.41	18.46	6.25	7100	-4	0.00	86	80	1.128
116	40	25.57	17.07	6.24	7100	-2	0.00	75	200	1.128
118	45	26.56	17.37	6.23	7100	-2	0.00	86	125	1.128

End Purge Time: 1200

Water sample: SB915-0066-02

Time collected: 1200

Density Measurement Start 1.126 End 1.128

Total volume of purged water removed: 2 gal

Physical appearance at start

Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling

Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

START = 96 Hz

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

& Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

	7/27/12	Personnel	A. Morton	Weather	Sunny 80°
...ie	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-36I
...ocation	Camillus, NY	Sampling Method	low flow	Project #	48127

Well information:

Depth of Well *	64.87	ft.
Depth to Water *	40.55	ft.
Length of Water Column	24.32	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

SB915-0066-04

Start Purge Time: 1010

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	44.35	20.47	13.72	75.3	-123	1.35	41.4	300	1.040
5	45.00	17.68	14.00	60.5	-138	1.25	42.3	200	
10	45.10	17.27	14.00	50.4	-117	1.51	19.4	280	
15	45.40	17.50	14.00	49.7	-114	1.49	14.2	300	1.024
20	46.00	18.51	14.00	55.6	-118	1.08	8.73	120	
25	46.02	18.90	14.00	57.9	-123	0.88	11.6	120	1.024
30	46.10	19.21	13.95	61.9	-129	0.66	9.55	120	
35	46.10	19.40	13.92	64.7	-134	0.46	9.11	120	1.026
40	46.10	19.49	13.88	68.3	-140	0.28	7.56	200	
45	46.00	19.50	13.84	70.8	-149	0.16	9.26	120	1.030
50	46.00	19.54	13.80	74.8	-160	0.00	7.96	120	
55	46.00	19.73	13.77	76.5	-174	0.00	7.54	120	1.030
60	46.00	19.94	13.75	77.2	-182	0.00	5.61	100	
65	46.00	20.13	13.74	77.6	-195	0.00	6.47	120	1.032
70	46.00	20.24	13.73	78.1	-204	0.00	6.29	100	
75	46.00	20.28	13.72	78.6	-213	0.00	4.74	110	1.032
80	45.90	20.42	13.72	78.3	-228	0.00	6.01	120	1.034
85	45.85	20.45	13.71	79.3	-237	0.00	5.71	120	1.036
90	45.85	20.60	13.71	79.5	-244	0.00	6.04	120	
									1.036

End Purge Time: 1145

Water sample:

Time collected: 1210

Physical appearance at start

Color: clear

Odor: none

Sheen/Free Product: none

Density Measurement Start 1.040 End 1.036

Total volume of purged water removed: 5 gallons

Physical appearance at sampling

Color: clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — **Low Flow Ground Water Sampling Log**

Date	7/27/12	Personnel	EBR/JAK	Weather	Sunny 81°
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-105BR
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well *	64.90	ft.
Depth to Water *	58.92	ft.
Length of Water Column		ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1257

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	59.00	15.34	7.93	1.32	-70	2.46	105	240	1.002
5	59.00	15.29	7.57	0.801	-66	0.72	88	260	1.002
10	59.00	15.08	7.48	0.656	-75	0.14	62	260	1.002
15	59.00	16.30	7.45	0.609	-85	0.00	30	220	1.002
20	59.00	16.79	7.46	0.613	-89	0.00	22	200	
25	59.00	16.94	7.42	0.606	-84	0.00	20	200	1.002
30	59.00	17.38	7.43	0.608	-91	0.00	14	200	1.002

End Purge Time: 1330

Water sample:

Time collected: 1405

Physical appearance at start

Color: Clear
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed: 2 gals.

Physical appearance at sampling

Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0066-05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — **Low Flow Ground Water Sampling Log**

Date	7/27/12	Personnel	JAK	Weather	~85°F, Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-03
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	36.38	ft.
Depth to Water *	8.13	ft.
Length of Water Column	28.25	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0925

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.12	21.35	6.45	14.1	-34	1.48	7.77	400	1.008
5	8.12	16.77	6.75	15.6	-67	0.61	1.89	400	
10	8.12	15.04	6.89	16.1	-82	0.00	1.92	400	1.008
15	8.12	14.71	6.94	16.3	-87	0.00	2.41	400	
20	8.12	14.52	6.97	16.3	-89	0.00	1.09	400	1.008
25	8.12	14.27	6.99	16.4	-91	0.00	5.36	400	
30	8.12	14.26	7.00	16.4	-92	0.00	2.78	400	1.008
35	8.12	14.20	7.00	16.4	-92	0.00	1.46	400	

End Purge Time: 1000

SB915-0066-01

Water sample:

Time collected: 1010

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.008 End 1.008

Total volume of purged water removed: ~5.0 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/27/12	Personnel	TBP	Weather	
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-104I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 75.23 ft.
Depth to Water * 28.85 ft.
Length of Water Column ____ ft.

* Measurements taken from
- ____ Top of Well Casing
- ____ Top of Protective Casing
- ____ (Other, Specify)

Start Purge Time: 1105

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
	Purged ~ 6.5 gal		Brown turbid water					700	
0	28.98	18.56	7.38	1.12	78	0.00	826	~~500~~ 700	
5	28.87	16.96	7.35	1.17	52	0.00	395	500	
10	28.86	16.81	7.34	1.17	42	0.00	287	500	
15	28.87	16.65	7.35	1.17	36	0.00	268	500	
20	28.87	16.4	7.36	1.18	33	0.00	198	500	
25	28.87	16.23	7.36	1.19	28	0.00	124	500	
30	28.87	16.09	7.36	1.19	24	0.00	98.8	500	
35	28.87	16.05	7.35	1.20	19	0.00	74.0	500	1.000
40	28.87	15.97	7.35	1.20	17	0.00	59.3	500	
45	28.87	15.88	7.35	1.20	16	0.00	48.7	500	
50	28.87	15.81	7.33	1.20	15	0.00	40.9	500	
55	28.87	15.97	7.33	1.20	15	0.00	34.9	500	
60	28.87	15.79	7.33	1.20	14	0.00	30.0	500	
65	28.87	15.75	7.34	1.21	13	0.00	26.8	500	
	28.87	15.63	7.34	1.21	14	0.00	27.1	500	1.000

End Purge Time: 1215

Water sample:

Time collected: 1230

Physical appearance at start
- Color: Brown
- Odor: None
- Sheen/Free Product: None

Density Measurement Start 1.000 End 1.000

Total volume of purged water removed: ~16 gal

Physical appearance at sampling
- Color: Clear
- Odor: None
- Sheen/Free Product: None

Field Test Results:
- Dissolved ferrous iron: ____
- Dissolved total iron: ____
- Dissolved total manganese: ____
- Dissolved Oxygen: ____

SB915-0066-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/27/2012	Personnel	P. Freyer	Weather	Partly Cloudy ~70°F, lt breeze
Site Name	SB915 Closure	Evacuation Method	Submersible Pump	Well #	SB915-MW-36D
Site Location	Camillus, NY	Sampling Method	Low - Flow	Project #	48127

Well information:

Depth of Well * 119.10 ft.
Depth to Water * 82.72 ft.
Length of Water Column 37.48 ft.

* Measurements taken from

~~X~~	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 10:05

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	82.72	17.90	5.84	11.0	-129	2.11	190	340	1.010
5	82.84	14.79	6.36	11.1	-144	0.10	985	560	
10	82.84	15.52	6.48	9.86	-152	0.00	>1000	520	
15	82.83	16.17	6.55	8.06	-153	0.00	>1000	460	1.006
20	82.84	15.92	6.55	7.26	-144	0.00	>1000	460	
25	82.84	15.96	6.77	6.71	-140	0.00	247	460	
30	82.84	16.14	6.54	6.39	-138	0.00	194	450	1.004
35	82.84	16.14	6.53	~~6.53~~ pH 5.91	-136	0.00	150	460	
40	82.84	16.20	6.54	5.72	-135	0.00	126	460	
45	82.84	16.17	6.54	5.60	-135	0.00	87.6	460	
50	82.82	16.31	6.54	5.40	-134	0.00	64.7	460	1.006
55	82.82	16.27	6.53	5.33	-133	0.00	54.0	460	
60	82.82	16.40	6.54	5.21	-133	0.00	42.6	460	
65	82.82	16.35	6.54	5.10	-132	0.00	47.7	460	1.006
70	82.82	16.38	6.53	5.14	-132	0.00	41.4	460	
75	82.82	16.26	6.54	5.04	-132	0.00	39.9	460	
80	82.82	16.39	6.54	4.94	-131	0.00	38.6	460	1.002

End Purge Time: 1129

Water sample: SB915-0067-01
Time collected: 1228 -02 FD

Physical appearance at start
Color Clearish Gray
Odor Slight Sulfur
Sheen/Free Product None

Density Measurement Start 1.010 End 1.002
Total volume of purged water removed: ~13 gal

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:
Dissolved ferrous iron: N/A
Dissolved total iron: N/A
Dissolved total manganese: N/A
Dissolved Oxygen: N/A

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/26/12	Personnel	EBR	Weather	Mostly Cloudy
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-107D
Site Location	Camillus, NY	Sampling Method	Peristaltic	Project #	48127

Well information:

Depth of Well * 107.95 ft.
Depth to Water * 9.61 ft.
Length of Water Column ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1320

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	9.68	20.91	6.84	>100	24	0.63	755	320	1.074
5	9.72	19.37	6.62	>100	-1	0.00	278	320	1.076
10	9.75	19.22	6.62	>100	-15	0.00	140	340	1.076
15	9.75	19.07	6.63	>100	-21	0.00	75	320	1.076
20	9.75	19.18	6.63	>100	-24	0.00	43	280	1.076
25	9.75	19.15	6.63	>100	-25	0.00	31	300	1.076
30	9.70	19.22	6.62	>100	-27	0.00	25	280	1.076
35	9.80	19.37	6.62	>100	-27	0.00	22	260	1.076
40	9.75	18.76	6.63	>100	-24	0.00	21	240	1.076

End Purge Time: 1405

Water sample:
Time collected: 1430

Physical appearance at start
Color Cloudy
Odor None
Sheen/Free Product None

Density Measurement Start 1.074 End 1.076
Total volume of purged water removed: 4 gals.

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0065-09

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/26/12	Personnel	JAK	Weather	~80°F, overcast, Light wind
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-106I
Site Location	Camillus, NY	Sampling Method	Low-flow	Project #	48127

Well information:

Depth of Well * 44.82 ft.
Depth to Water * 9.46 ft.
Length of Water Column 35.36 ft.

* Measurements taken from
X Top of Well Casing
Top of Protective Casing
(Other, Specify)

Start Purge Time: 0950

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	10.12	22.97	7.55	1.60	-22	12.58	7999	280	1.006
5	10.55	21.04	7.78	2.78	-143	6.07	>999	220	
10	10.44	20.43	7.85	3.34	-152	4.81	>999	240	1.004
15	10.44	20.01	7.88	3.72	-156	4.07	>999	260	
20	10.44	19.77	7.85	4.78	-157	2.88	7999	260	
25	10.43	20.03	7.69	9.60	-153	2.21	>999	220	1.004
30	10.41	19.50	7.64	14.3	-155	1.67	>999	220	
35	10.46	19.31	7.64	15.3	-156	1.23	7999	240	1.008
40	10.46	19.35	7.64	15.7	-157	0.87	>999	240	
45	10.46	19.47	7.63	17.0	-157	0.57	959	240	1.010
50	10.46	19.66	7.61	18.2	-158	0.34	550	240	
55	10.45	19.57	7.59	19.7	-158	0.12	302	240	1.010
60	10.44	19.99	7.58	20.6	-158	0.00	230	240	
65	10.44	19.95	7.58	21.0	-159	0.00	116	240	1.010
70	10.44	20.14	7.57	21.1	-159	0.00	79.2	240	
75	10.46	20.24	7.57	21.5	-158	0.00	55.7	240	1.010
80	10.45	20.20	7.56	21.9	-158	0.00	47.3	240	
85	10.41	20.49	7.55	22.4	-158	0.00	35.9	240	1.012
90	10.41	20.63	7.55	23.6	-157	0.00	33.3	240	
95	10.41	20.46	7.52	23.8	-157	0.00	29.4	240	1.012
100	10.42	20.76	7.52	23.8	-157	0.00	22.4	240	

End Purge Time: 1130

SB915-0065-04

Water sample:

Time collected: 1145

Physical appearance at start
Color: Cloudy-Light Brown
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.006 End 1.012

Total volume of purged water removed: 6 gallons

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/26/12	Personnel	AKM	Weather	overcast, humid, 85°
Site Name	SB915 Closure	Evacuation Method	Grunfos	Well #	SB915-MW-106S
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well information:

Depth of Well *	19.98	ft.	* Measurements taken from SB915-0065-03
Depth to Water *	5.29	ft.	X Top of Well Casing
Length of Water Column	14.69	ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: 0950

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	7.15	18.65	6.12	6.55	82	0.00	50	200	1.004
5	7.32	19.91	6.23	4.55	61	0.17	32	300	
1000 10	7.32	20.01	6.25	4.34	61	0.25	21	200	
15	7.43	20.37	6.28	4.11	62	0.26	15	200	1.000
20	7.48	21.74	6.30	3.97	70	0.32	9	300	1.002
25	7.86	20.65	6.34	4.35	68	0.40	8	100	
30	7.96	21.20	6.34	3.81	71	0.39	4	100	1.002
35	8.06	21.66	6.33	4.48	73	0.35	5	80	
1030 40	8.12	22.12	6.35	4.81	73	0.31	3	80	1.002
45	8.21	22.64	6.33	5.94	74	0.28	3	80	
50	8.59	21.32	6.48	3.40	64	0.40	2	100	1.000
55	8.70	21.92	6.44	3.20	69	0.39	2	100	
60	8.80	22.23	6.43	3.58	73	0.42	3	100	1.000
65	8.90	22.72	6.33	4.65	80	0.42	02	100	
1100 70	9.10	22.94	6.36	4.97	76	0.37	3	100	1.000
75	9.25	23.01	6.50	5.02	80	2.34	3	150	
80	9.25	22.61	6.47	4.50	77	2.26	6	200	1.000
85	9.50	22.69	6.44	3.90	78	2.14	5	100	
90	9.57	22.92	6.44	3.93	82	2.04	4	100	1.000
95	9.70	23.17	6.39	4.80	89	1.72	3	100	
100	9.91	23.22	6.41	4.73	87	1.37	3	100	1.000
105	9.97	23.30	6.41	4.59	88	1.30	2	100	1.000
110	10.10	23.43	6.40	4.57	90	1.39	3	100	

End Purge Time: 1140

Water sample:

Time collected: 1215

Physical appearance at start

Color: clear

Odor: none

Sheen/Free Product: none

Density Measurement Start 1.004 End 1.000

Total volume of purged water removed: 5 gallons

Physical appearance at sampling

Color: clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

* Control box reset ~5 times during purge/sampling effort causing fluxuations in Conductivity and DO during purge.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/26/12	Personnel	KJK	Weather	Overcast / ~80° F
Site Name	SB915 Closure	Evacuation Method	Per Pump	Well #	SB915-MW-11.5BR
Site Location	Camillus, NY	Sampling Method	Per Pump	Project #	48127

Well information:

Depth of Well *	92.21	ft.
Depth to Water *	9.01	ft.
Length of Water Column	83.20	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1030

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	9.29	21.19	6.81	29.0	-68	0.00	896	360	1.008
5	9.30	19.03	6.89	31.8	-65	0.00	71000	320	1.016
10	9.28	17.65	6.91	33.5	-63	0.00	800	300	1.016
15	9.27	17.68	6.92	33.9	-64	0.00	71000	280	1.016
20	9.28	18.61	6.92	36.4	-65	0.00	491	280	1.018
25	9.31	18.12	6.91	44.9	-67	0.00	265	280	1.020
30	9.31	18.11	6.90	50.9	-68	0.00	149	280	1.024
35	9.30	16.98	6.96	50.0	-66	0.00	101	320	1.024
40	9.32	17.42	6.94	50.1	-63	0.00	74	300	1.024
45	9.30	17.82	6.93	53.7	-66	0.00	43	300	1.026
50	9.28	17.17	6.93	57.0	-69	0.00	36	300	1.026
55	9.31	16.51	6.94	57.1	-70	0.00	24	300	1.028
~~60~~ 58	9.30	17.31	6.94	56.9	-71	0.00	21	300	1.028
~~65~~ 61	9.33	17.40	6.94	57.1	-71	0.00	17	300	1.028
~~70~~									

* Tubing fell off / out of pump

End Purge Time: 1131

Water sample: SB915-0065-06

Time collected: 1144

Density Measurement Start 1.008 End 1.028

Total volume of purged water removed: 5 gal

Physical appearance at start

Color: Brown

Odor: Yes - Sulfur

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/26/12	Personnel	EBR	Weather	Overcast 78°
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-04
Site Location	Camillus, NY	Sampling Method	Peristaltic	Project #	48127

Well Information:

Depth of Well *	21.80	ft.
Depth to Water *	7.82	ft.
Length of Water Column		ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1035

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	9.00	21.83	6.36	24.7	-31	0.40	24.5	400	1.020
5	9.84	19.50	6.37	29.4	-34	0.00	14.9	300	1.020
10	10.68	19.52	6.40	24.1	-34	0.00	11.4	300	1.020
15	11.28	20.85	6.42	24.1	-33	0.00	11.9	260	1.020
20	11.73	21.25	6.43	24.1	-33	0.00	11.4	300	1.020
25	12.18	21.50	6.45	24.2	-34	0.00	7.10	250	1.020
30	12.58	22.26	6.45	24.3	-35	0.00	6.94	260	1.020
35	12.68	22.44	6.47	24.2	-35	0.00	7.40	260	1.020

End Purge Time: 1110

Water sample:

Time collected: 1141

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.020 End 1.020

Total volume of purged water removed: 3.5 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0065-07

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/26/2012	Personnel	P. Fryger	Weather	overcast, ~75°F, breezy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW17S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	25.90	ft.
Depth to Water *	8.61	ft.
Length of Water Column	17.29	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1135

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.61	28.00	6.99	16.7	-76	3.13	49.7	360	1.010
5	10.40	18.38	6.89	18.5	-79	0.00	49.4	320	
10	11.56	18.25	6.82	18.7	-75	0.00	77.9	240	
15	11.90	18.74	6.82	18.75	-74	0.00	131	220	
20	11.96	18.80	6.82	19.0	-74	0.00	183	220	
25	12.14	18.79	6.82	18.9	-76	0.00	244	220	
30	12.25	18.89	6.84	18.6	-77	0.00	241	220	
35	12.26	18.89	6.85	18.3	-79	0.00	237	220	1.008

End Purge Time: 1213

Water sample:

Time collected: 1242

Physical appearance at start

Color: Clear

Odor: None *

Sheen/Free Product: None

Density Measurement Start 1.010 End 1.008

Total volume of purged water removed:

Physical appearance at sampling

Color:

Odor:

Sheen/Free Product:

Field Test Results:

Dissolved ferrous iron:	N/A
Dissolved total iron:	N/A
Dissolved total manganese:	N/A
Dissolved Oxygen:	N/A

* exhaust from nearby Apollo / Centrifugal Pump was overpowering sense of smell.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7-26-12	Personnel	JMN	Weather	1st Cloudy, 80s
Site Name	SB915 Closure	Evacuation Method	Cruiser	Well #	SB915-MW-118RR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 59.88 ft.
Depth to Water * 3.74 ft.
Length of Water Column ____ ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 0920

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	3.75	20.67	6.04	9.23	-122	0.35	>1000	500	1.006
5	3.76	18.24	6.36	9.99	-138	0.00	>1000	~~320~~ 400	
10	3.76	18.06	6.40	9.98	-139	0.00	>1000	400	
15	3.76	18.11	6.43	10.00	-140	0.00	966	380	
20	3.76	18.25	6.45	10.00	-141	0.00	712	380	
25	3.76	18.24	6.45	10.00	-141	0.00	467	380	
30	3.76	18.10	6.46	10.00	-141	0.00	314	380	
35	3.76	18.04	6.47	10.00	-141	0.00	238	380	
40	3.76	18.14	6.47	10.00	-141	0.00	189	380	
45	3.76	17.97	6.47	10.00	-141	0.00	169	380	
50	3.76	17.99	6.48	10.00	-141	0.00	156	380	
55	3.76	17.98	6.48	10.10	-142	0.00	138	380	
60	3.76	18.08	6.48	10.10	-142	0.00	113	350	
65	3.76	18.11	6.48	10.10	-142	0.00	105	380	
70	3.76	18.20	6.49	10.10	-142	0.00	94.8	380	
75	3.76	17.94	6.49	10.10	-142	0.00	84.6	380	
80	3.76	17.95	6.49	10.20	-142	0.00	76.1	380	
85	3.76	17.98	6.49	10.10	-141	0.00	65.3	380	
90	3.76	18.00	6.49	10.10	-141	0.00	60.2	380	
95	3.76	18.02	6.50	10.10	-141	0.00	53.9	380	
100	3.76	17.96	6.50	10.10	-141	0.00	52.2	380	
105	3.76	18.00	6.50	10.10	-141	0.00	42.9	380	
110	3.76	17.98	6.50	10.10	-141	0.00	47.7	380	
115	3.76	18.05	6.50	10.10	-141	0.00	47.2	380	

End Purge Time: 1127

Water sample:
Time collected: 1142
Physical appearance at start
Color: Cloudy brown
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.006 End 1.006
Total volume of purged water removed: 15 gal
Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron: ____
Dissolved total iron: ____
Dissolved total manganese: ____
Dissolved Oxygen: ____

SB915-0065-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/26/12	Personnel	JAK	Weather	~80°F, overcast, light wind
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-167S
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well Information:

Depth of Well *	22.47	ft.
Depth to Water *	3.68	ft.
Length of Water Column	18.79	ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1325

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SpG
0	3.94	27.90	6.19	64.5	-62	0.59	84.1	320	
5	5.82	25.64	6.12	67.0	-60	0.18	38.7	300	1.032
10	6.11	24.55	6.08	70.0	-62	0.11	36.2	200	
15	6.33	23.64	6.07	71.3	-64	0.06	27.9	200	1.030
20	6.42	23.37	6.07	71.0	-66	0.05	32.1	180	
25	6.41	23.20	6.07	71.4	-70	0.02	31.9	180	1.028
30	6.38	23.23	6.08	70.9	-72	0.01	33.1	180	
35	6.41	23.74	6.08	70.1	-72	0.00	24.7	180	1.028
40	6.44	23.96	6.08	69.5	-69	0.00	19.8	180	
45	6.49	23.90	6.06	70.5	-66	0.00	14.5	180	1.028
50	6.57	23.88	6.05	71.2	-62	0.00	12.4	180	
55	6.62	23.83	6.04	71.9	-59	0.00	10.4	180	1.028
60	6.62	23.80	6.03	72.4	-56	0.00	14.5	180	
65	6.62	23.64	6.02	73.4	-53	0.00	16.2	180	

End Purge Time: 1430

SB915-0065-11

Water sample:

Time collected: 1455

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.032 End 1.028

Total volume of purged water removed: ~4.0 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/26/12	Personnel	AKM	Weather	87° Hot/Humid
Site Name	SB915 Closure	Evacuation Method	peristaltic pump	Well #	SB915-MW-107I
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well information:

Depth of Well * 57.16 ft.
Depth to Water * 8.00 ft.
Length of Water Column 49.16 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

SB915-0065-10

Start Purge Time: 1330

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	8.05	15.60	6.82	12.3	-57	0.36	621	500	1.006
5	8.05	15.31	6.72	13.4	-46	0.00	363	500	1.006
10	8.05	15.28	6.71	13.2	-45	0.00	67.5	440	
15	8.05	15.22	6.70	13.1	-45	0.00	26.8	460	1.006
20	8.05	15.13	6.70	13.0	-45	0.00	20.8	500	
25	8.05	15.28	6.69	13.0	-45	0.00	15.1	460	1.006
1400 30	8.05	15.33	6.68	13.0	-44	0.00	13.0	440	1.004
35	8.05	15.29	6.66	12.9	-43	0.00	17.6	460	

End Purge Time: 1405

Water sample:
Time collected: 1420
Physical appearance at start
Color: slightly murky grey
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.006 End 1.004
Total volume of purged water removed: 6.5 gallons
Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/25/2012	Personnel	P. Fraser	Weather	Sunny, ~70°F, light breeze
Site Name	SB915 Closure	Evacuation Method	Submersible Pump	Well #	SB915-WB-05L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * _____ ft.
Depth to Water * 21.57 ft.
Length of Water Column _____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 11:18

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	21.57	16.22	7.15	>100	-217	0.98	53.5	300	1.078
5	21.62	14.75	6.75	>100	-88	0.00	345	540	
10	21.62	14.89	6.61	>100	-77	0.00	268	440	1.082
15	21.62	14.87	6.59	>100	-76	0.00	190	440	
20	21.62	14.87	6.57	>100	-74	0.00	153	460	1.082
25	21.62	14.97	6.55	>100	-72	0.00	122	460	
30	21.62	14.91	6.54	>100	-71	0.00	98.9	480	1.080
35	21.62	14.79	6.54	>100	-70	0.00	86.1	480	
40	21.62	14.67	6.54	>100	-70	0.00	77.5	480	1.080
45	21.62	14.80	6.54	>100	-70	0.00	58.4	480	
50	21.62	14.78	6.54	>100	-70	0.00	44.8	480	1.082
55	21.62	14.78	6.54	>100	-70	0.00	34.7	480	
60	21.62	14.82	6.54	>100	-70	0.00	32.6	480	1.082
65	21.62	14.72	6.54	>100	-70 pg	0.00	26.2	480	1082
70	21.62	14.73	6.54	>100	-70	0.00	19.3	480	
75	21.62	14.96	6.54	>100	-70	0.00	18.8	480	1.082
80	21.62	15.10	6.54	>100	-71	0.00	13.6	480	
83	21.62	15.03	6.54	>100	-71	0.00	13.4	480	1.080
86	21.62	14.95	6.54	>100	-71	0.00	11.5	480	
90	21.62	15.04	6.55	>100	-71	0.00	9.04	480	1.082
93	21.62	14.97	6.55	>100	-71	0.00	8.85	480	
96	21.62	15.07	6.55	>100	-71	0.00	8.39	480	

End Purge Time: 12:50

Water sample: SB915-0064-01, -02 MS, -03 MSD
Time collected: 1425

Density Measurement Start 1.078 End 1.082
Total volume of purged water removed: ~12 gal

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron: N/A
Dissolved total iron: N/A
Dissolved total manganese: N/A
Dissolved Oxygen: N/A

Notes: Protective casing falling apart/rotted out, Boyer cap no longer attached

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/25/12	Personnel	KJK	Weather	Mostly Cloudy ~ 75°F
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WB-06
Site Location	Camillus, NY	Sampling Method	Peristaltic Pump	Project #	48127

Well information:

Depth of Well * 82.0 ft.
Depth to Water * 13.26 ft.
Length of Water Column 68.74 ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1210

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	13.53	17.40	5.39	7100	-78	6.35	251	490	1.006
5	13.53	13.74	5.72	7100	-89	0.07	201	460	1.064
10	13.53	13.42	5.80	7100	-86	0.08	151	460	1.066
15	13.53	13.50	5.84	7100	-88	0.00	132	460	1.066
20	13.53	13.41	5.86	7100	-83	0.00	122	460	1.064
25	13.53	13.28	5.88	7100	-84	2.20	112	460	1.066
30	13.53	13.13	5.88	7100	-85	1.53	102	460	1.064
35	13.53	13.33	5.89	7100	-86	1.63	90	460	1.064
40	13.53	13.27	5.89	7100	-86	1.27	78	460	1.064
45	13.53	13.05	5.90	7100	-87	0.94	70	460	1.064
50	13.53	13.22	5.90	7100	-87	0.79	66	460	1.064
55	13.54	13.47	5.91	7100	-88	0.95	57	460	1.064
60	13.53	13.62	5.91	7100	-88	1.27	54	460	1.064
65	13.54	13.44	5.91	7100	-88	1.02	47	460	1.066
70	13.54	13.47	5.92	7100	-89	0.98	37	460	1.066
75	13.53	13.49	5.92	7100	-89	0.86	41	460	1.064
80	13.53	13.58	5.92	7100	-89	0.63	27	460	1.064
83	13.53	13.53	5.92	7100	-89	0.61	28	460	1.064
86	13.53	13.55	5.92	7100	-89	0.59	30	460	1.064

End Purge Time: 1336

Water sample: SB915-0063-04
Time collected: 1347

Density Measurement Start 1.006 End 1.064
Total volume of purged water removed: 12 gal

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7-25-12	Personnel	JWB	Weather	~80°f Sun
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-WB-05M
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	64.57	ft.
Depth to Water *	19.55	ft.
Length of Water Column	45.02	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1115

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	19.54	14.52	6.90	30.3	-88	3.20	57.8	350	1.016
5	19.54	14.62	7.13	34.6	-104	0.00	29.4	350	
10	19.54	13.91	7.08	36.1	-100	0.00	17.9	350	
15	19.54	13.60	7.07	36.5	-100	0.00	14.7	350	
20	19.54	13.50	7.07	36.7	-101	0.00	12.8	350	
25	19.54	13.56	7.08	36.7	-102	0.00	11.0	350	
30	19.54	13.62	7.08	36.7	-103	0.00	10.7	350	
35	19.54	13.55	7.09	36.7	-103	0.00	9.55	350	
40	19.54	13.55	7.09	36.7	-104	0.00	9.44	350	
45	19.54	13.59	7.09	36.6	-104	0.00	9.39	350	

End Purge Time: 1200

Water sample:

Time collected: 1213

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.016 End 1.016

Total volume of purged water removed: ~5 gallons

Physical appearance at sampling

Color: Clear

Odor: No

Sheen/Free Product: No

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0063-0

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/25/12	Personnel		Weather	Sunny 78°
Site Name	SB915 Closure	Evacuation Method		Well #	WB18-MW-14D
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well * 59.64 ft.
Depth to Water * 6.65 ft.
Length of Water Column ____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1220

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.38	22.75	5.70	49.1	-38	1.42	11.7	100	1.032
5	9.32	21.09	5.97	56.1	-25	.23	45.5	300	
10	9.86	21.15	6.04	58.9	-39	.03	26.9	300	
15	10.28	20.68	6.05	59.8	-41	.06	26.9	100	
20	10.82	20.35	6.08	60.4	-46	0.00	25.7	200	
25	11.05	20.20	6.09	60.6	-48	0.00	21.2	100	
30	11.07	20.29	6.10	61.0	-49	0.00	22.2	100	
35	11.66	20.30	6.11	62.2	-51	0.00	19.3	100	1.034
40	12.00	19.87	6.13	61.6	-52	0.00	28.3	200	
45	12.52	19.42	6.13	61.9	-52	0.00	27.0	100	
50	12.65	19.43	6.13	62.9	-53	0.00	27.3	100	
55	12.70	19.49	6.13	62.9	-54	0.00	23.7	100	
60	12.82	19.64	6.14	62.7	-54	0.00	21.3	100	
65	12.95	19.63	6.14	63.1	-54	0.00	23.6	100	

End Purge Time: 1327

Water sample:

Time collected: 1355

Physical appearance at start
Color Clear
Odor None
Sheen/Free Product None

Density Measurement Start 1.032 End 1.034

Total volume of purged water removed: ~3 gal

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:

Dissolved ferrous iron: ____
Dissolved total iron: ____
Dissolved total manganese: ____
Dissolved Oxygen: ____

SB915-0063-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/25/12	Personnel	EBR	Weather	Sunny 78°
Site Name	SB915 Closure	Evacuation Method		Well #	WB18-MW-14BR
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well * 120.69 ft.
Depth to Water * 9.70 ft.
Length of Water Column ____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1217-1233

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	9.74	23.87	6.50	>100	-27	4.70	489	200	1.120
5	9.74	21.02	6.89	>100	-84	3.41	828	220	1.126
10	9.74	20.64	7.01	>100	-96	2.73	885	200	1.128
15	9.74	18.85	7.10	>100	-101	2.51	704	220	1.128
20	9.74	18.09	7.15	>100	-102	2.34	515	240	1.126
25	9.74	17.57	7.16	>100	-102	2.01	376	280	1.126
30	9.74	16.88	7.16	>100	-101	1.66	307	280	1.126
35	9.74	16.74	7.16	>100	-101	1.34	252	280	1.126
40	9.74	16.86	7.15	>100	-100	1.02	223	280	1.126
45	9.74	17.96	7.15	>100	-100	0.74	192	280	1.126
50	9.74	18.10	7.14	>100	-100	0.59	172	220	1.126
55	9.74	14.13	7.13	>100	-100	0.55	171	160	
60	9.76	17.28	7.16	>100	-100	0.37	219	280	1.126
65	9.74	18.76	7.14	>100	-99	0.22	160	260	1.126
70	9.74	18.34	7.14	>100	-99	0.13	153	220	1.126
75	9.73	14.33	7.13	>100	-99	0.05	121	200	
80	9.73	14.38	7.13	>100	-100	0.00	110	200	1.126
85	9.73	14.41	7.13	>100	-101	0.00	101	160	
90	9.73	18.81	7.15	>100	-100	0.00	101	240	1.126
95	9.73	17.01	7.15	>100	-99	0.00	81	240	1.126
100	9.73	17.12	7.14	>100	-98	0.00	52	300	1.126
105	9.73	17.21	7.14	>100	-98	0.00	47	300	1.126
110	9.73	17.17	7.14	>100	-97	0.00	42	300	1.126

End Purge Time: 1425

Water sample:
Time collected: 1429

Density Measurement Start 1.120 End 1.126
Total volume of purged water removed: 9 gals.

Physical appearance at start
Color Cloudy
Odor None
Sheen/Free Product None

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:
Dissolved ferrous iron: ____
Dissolved total iron: ____
Dissolved total manganese: ____
Dissolved Oxygen: ____

SB915-0063-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/24/12	Personnel	PAF / AKM	Weather	85° Sunny w/ breeze
Site Name	SB915 Closure	Evacuation Method	peristaltic pump	Well #	SB915-WB-07L
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well Information:

Depth of Well * 79.66 ft.

Depth to Water * 10.65 ft.

Length of Water Column _____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 14:24

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	10.65	14.50	7.35	7100	-43	0.94	47.4	500	
5	10.72	15.47	6.32	>100	-115	0.00	22.1	500	→ *
15	10.74	18.70	8.09	89.1	-172	0.60	10.20	500	
20	10.74	16.03	7.50	90.8	-117	0.00	7.86	440	1.046
25	10.73	15.54	7.07	91.4	-82	0.00	5.18	440	
30	10.74	15.49	6.93	91.5	-76	0.00	4.32	440	1.046
35	10.74	15.39	6.75	91.8	-69	0.00	4.05	440	
40	10.74	15.08	6.62	92.0	-65	0.00	2.87	440	
45	10.74	15.32	6.53	92.1	-64	0.00	2.80	440	1.046
50	10.74	15.17	6.49	91.8	-63	0.00	2.11	440	
55	10.74	15.26	6.44	91.9	-62	0.00	2.15	440	1.046

End Purge Time: 15:21

Water sample:

Time collected: 15:38

Physical appearance at start

Color: clear

Odor: slight odor, indistinguishable

Sheen/Free Product: None

Density Measurement Start 1.048 End 1.046

Total volume of purged water removed: 6 gallons

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: N/A

Dissolved total iron: N/A

Dissolved total manganese: N/A

Dissolved Oxygen: N/A

* = changed water quality meter conductivity out of range

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/23/12	Personnel	JAK	Weather	~90°F, Sunny, Breezy
Site Name	SB915 Closure	Evacuation Method	GroundFos	Well #	SB915-MW-109I
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	54.47	ft.
Depth to Water *	16.82	ft.
Length of Water Column	37.60	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1135

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	18.30	23.47	6.21	27.6	-16	1.29	>999	100	1.020
5	18.40	23.01	7.05	39.8	-164	0.10	817	100	
10	18.47	23.42	7.36	41.2	-187	0.02	522	100	1.020
15	18.52	23.44	7.52	41.8	-211	0.00	566	100	
20	18.60	23.27	7.58	42.0	-221	0.00	674	100	
25	18.60	23.09	7.60	42.0	-223	0.00	996	100	1.020
30	18.62	22.73	7.64	41.7	-228	0.00	>999	100	
35	18.64	22.68	7.65	41.9	-227	0.00	>999	100	1.020
40	18.70	22.47	7.65	42.0	-230	0.00	>999	100	
45	18.73	22.37	7.63	42.0	-229	0.00	7999	100	1.020
50	18.78	22.32	7.60	41.8	-225	0.00	7999	100	
55	18.81	22.31	7.57	41.7	-222	0.00	7999	100	
60	18.85	22.35	7.54	41.5	-218	0.00	7999	100	1.020
65	18.89	22.42	7.49	40.8	-215	0.00	7999	100	
70	18.91	24.00	7.42	39.8	-214	0.00	>999	100	
75	18.93	24.49	7.39	39.1	-217	0.00	7999	100	
80	18.99	24.75	7.40	38.8	-220	0.00	>999	100	
85	19.00	25.65	7.36	37.1	-168	0.00	7999	100	
90	19.01	25.88	7.34	37.2	-179	0.00	7999	100	
95	19.00	26.17	7.32	37.1	-182	0.00	969	100	
100	19.00	26.09	7.29	37.1	-180	0.00	905	100	
105	19.00	26.24	7.25	36.4	-182	0.00	895	100	1.018
110	19.03	26.30	7.20	35.8	-181	0.00	953	100	

Page 1 of 2

SB915-0061-06

End Purge Time: 1537

Water sample:

Time collected: 1615

Physical appearance at start

Color: Cloudy - Dark Brown

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.020 End 1.014

Total volume of purged water removed:

Physical appearance at sampling

Color: Clearish

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/23/12	Personnel	JAK	Weather	~90F, Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-109I
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	54.42	ft.
Depth to Water *	16.82	ft.
Length of Water Column	37.60	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1135

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
115	~~16.48~~ 19.00	26.48	7.17	~~3.58~~ 35.8	-181	0.00	997	100	
120	19.00	26.66	7.14	35.2	-180	0.00	~~7999~~ 999	100	1.018
125	19.01	25.55	7.11	35.5	-177	0.00	7999	100	
130	19.01	25.50	7.07	35.3	-175	0.00	7999	100	
135	18.91	25.61	7.06	35.0	-174	0.00	7999	100	
140*	18.91	26.74	7.03	34.1	-173	0.00	7999	100	
145	18.91	26.93	7.01	34.0	-173	0.00	7999	100	
150	18.91	26.99	6.96	31.1	-158	0.00	7999	100	1.016
155	18.91	27.41	6.90	30.6	-152	0.00	7999	100	
160	18.90	27.64	6.91	30.9	-154	0.00	7999	100	
165	18.90	27.96	6.93	31.9	-160	0.00	938	100	
170	18.85	28.14	6.94	31.8	-163	0.00	792	100	1.014
180	18.81	28.11	6.93	31.5	-164	0.00	617	100	
190	18.76	27.89	6.92	31.6	-160	0.00	562	100	1.014
200	18.69	28.16	6.89	31.4	-163	0.00	364	100	
210	18.62	28.53	6.88	30.9	-163	0.00	266	100	1.014
220	18.58	28.81	6.86	30.5	-162	0.00	204	100	
230	18.48	28.90	6.85	30.2	-161	0.00	180	100	
233	18.44	28.95	6.84	30.2	-161	0.00	165	100	
236	18.41	28.98	6.84	30.2	-161	0.00	133	100	
239	18.39	28.05	6.84	30.1	-161	0.00	126	100	
242	18.37	29.08	6.83	30.0	-161	0.00	117	100	

End Purge Time: See Page 1.

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

* Moved pumpup well casing ~ 3Ft

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

37.6 X 0.163 = 6.1288

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/23/12	Personnel	TimBP	Weather	
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-108D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well *	64.85 ft.	* Measurements taken from	
Depth to Water *	29.60 ft.		Top of Well Casing
Length of Water Column	ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1418

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	29.65	22.35	7.79	.713	-88	7.00	729	200	1.002
5	29.65	22.18	7.70	.677	-103	6.05	588	200	
10	29.65	21.76	7.65	.691	-111	7.83	286	200	
15	29.65	20.47	7.63	.711	-110	5.68	176	200	
20	29.65	19.13	7.61	.743	-110	5.80	96.6	200	
25	29.65	19.70	7.60	.746	-110	5.42	74.0	200	
30	29.65	17.88	7.59	.782	-111	5.28	62.0	200	1.002
35	29.65	17.73	7.57	.806	-112	4.14	32.8	200	
40	29.65	17.46	7.59	.813	-112	3.57	35.5	200	
45	29.65	17.53	7.57	.822	-112	3.06	25.3	200	
50	29.65	17.25	7.57	.824	-112	2.27	14.2	200	
55	29.65	17.69	7.56	.819	-111	1.53	15.1	200	
60	29.65	17.71	7.55	.825	-112	1.32	9.90	200	
65	29.65	17.70	7.55	.823	-112	1.19	10.8	200	
70	29.65	17.78	7.54	.830	-112	1.03	11.4	200	
75	29.65	17.86	7.54	.830	-112	1.04	10.4	200	
80	29.65	17.50	7.54	.836	-113	.68	15.5	200	
85	29.65	17.50	7.54	.836	-113	.68	15.4	200	
90	29.65	17.57	7.54	.838	-113	.57	15.7	200	

End Purge Time: 1508

Water sample:
Time collected: 1540

Density Measurement Start 1.002 End 1.002
Total volume of purged water removed:

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0061-08

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/28/12	Personnel	TBP	Weather	
Site Name	SB915 Closure	Evacuation Method	Bladder/Peristaltic	Well #	SB915-MW-109S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	15.41 ft.	* Measurements taken from	
Depth to Water *	3.92 ft.	X	Top of Well Casing
Length of Water Column	ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1145

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
1145 0	3.93	24.57	12.96	44.3	-99	0.00	93	700	1.020
5	3.93	18.54	13.06	47.1	-202	0.00	30	500	
10	3.93	17.94	13.08	47.4	-235	0.00	20	500	
15	3.93	17.72	13.09	47.5	-246	0.00	14	500	
20	3.93	17.56	13.10	47.6	-253	0.00	14	500	1.020
25	3.93	17.35	13.11	47.8	-258	0.00	9	500	
30	3.93	17.23	13.11	47.9	-262	0.00	8	500	
35	3.93	17.38	13.11	47.8	-264	0.00	7	500	
40	3.93	17.17	13.12	48.0	-267	0.00	6	500	
45	3.93	17.17	13.12	47.9	-268	0.00	6	500	

End Purge Time: 1235

Water sample:

Time collected: 1250

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.020 End 1.020

Total volume of purged water removed: 5gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/23/12	Personnel	TBP	Weather	~90° F Sun
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-108S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	26.67	ft.
Depth to Water *	25.31	ft.
Length of Water Column	1.36	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1340

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	26.35	22.96	7.30	1.55	126	1.54	>1000	100	
5	26.35	23.44	7.30	1.59	129	1.30	>1000	100	1.002
10	26.41	22.61	7.24	1.49	134	.84	>1000	100	
15	26.46	21.70	7.25	1.41	136	.84	267	100	
20	26.48	21.79	7.24	1.37	136	.82	249	100	
7/23/12	1403	WELL	WENT	DRY					

End Purge Time:

Water sample:

Time collected:

Physical appearance at start

Color: Cloudy

Odor: None

Sheen/Free Product: NONE

Density Measurement Start End

Total volume of purged water removed:

Physical appearance at sampling

Color

Odor

Sheen/Free Product

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/23/12	Personnel	JWB	Weather	~90°F Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW 708BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	94.76	ft.
Depth to Water *	23.55	ft.
Length of Water Column	71.21	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1145

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	23.30	18.46	6.84	2.95	87	8.77	361	100
5	23.30	19.63	7.02	3.03	-17	6.70	433	100
10	23.60	18.46	7.19	3.02	-87	0.75	>1000	200
15	23.65	18.08	7.21	3.07	-90	0.26	686	200
20	23.65	18.09	7.20	3.06	-88	0.11	335	200
25	23.66	17.94	7.19	3.05	-85	0.02	189	200
35	23.62	18.10	7.16	3.05	-82	0.00	105	180
40	23.70	17.93	7.16	3.05	-80	0.00	66.2	200
45	23.68	17.83	7.16	3.04	-80	0.00	58.7	200
50	23.70	17.73	7.15	3.04	-79	0.00	44.0	200
55	23.72	17.73	7.15	3.05	-78	0.00	42.0	200
60	23.70	17.54	7.15	3.04	-78	0.00	34.3	200
65	23.70	17.68	7.15	3.06	-78	0.00	32.3	200
68	23.70	17.74	7.15	3.04	-79	0.00	33.1	200

Density 1.002

End Purge Time: 1253

Water sample:

Time collected: 1321

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed:

Physical appearance at sampling

Color: clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0061-07

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/23/2012	Personnel	P. Freyer	Weather	Clear, ~80°F, Humid, 14 Breeze
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW2-1115
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	24.40	ft.	* Measurements taken from
Depth to Water *	8.83	ft.	X — Top of Well Casing
Length of Water Column	15.57	ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: 11:20

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.58	22.59	6.10	58.1	-76	1.15	754	440	
5	9.47	15.87	6.25	57.8	-86	0.56	520	440	
10	9.23	15.74	6.33	52.7	-93	0.00	863	300	
15	9.22	15.41	6.36	47.2	-96	0.00	565	300	
20	9.22	15.38	6.41	43.2	-100	0.00	307	300	
25	9.20	17.37	6.45	40.6	-101	0.00	221	300	
30	9.21	17.69	6.47	37.9	-103	0.00	135	300	1.020
35	9.21	17.96	6.51	35.0	-105	0.00	94.6	300	
40	9.20	17.86	6.54	33.4	-107	0.00	83.4	300	
45	9.19	17.74	6.58	31.9	-109	0.00	71.8	300	
50	9.13	18.05	6.58	32.0	-111	0.00	56.1	300	**
55	9.14	15.27	6.57	31.4	-109	0.00	55.9	300	
60	9.14	15.82	6.57	30.7	-108	0.00	58.4	300	
65	9.14	14.96	6.57	30.2	-109	0.00	60.3	300	
70	9.14	16.87	6.57	29.2	-107	0.00	43.7	300	
75	9.13	14.94	6.59	28.2	-108	0.00	40.8	300	1.014
80	9.13	14.93	6.59	27.5	-108	0.00	36.6	300	
85	9.13	14.68	6.59	27.4	-108	0.00	36.9	300	
90	9.12	14.59	6.59	26.8	-108	0.00	34.2	300	

End Purge Time: 12:52

Water sample: SB915-0001-01

Time collected: 13:14

Density Measurement Start 1.030 End 1.013

Total volume of purged water removed: ~7 gal

Physical appearance at start
- Color: Clear ish
- Odor: None
- Sheen/Free Product: None

Physical appearance at sampling
- Color: Clear
- Odor: None
- Sheen/Free Product: None

Field Test Results:
- Dissolved ferrous iron: N/A
- Dissolved total iron: N/A
- Dissolved total manganese: N/A
- Dissolved Oxygen: N/A

* Pump stopped briefly to switch power source.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/23/12	Personnel	EBR	Weather	Mostly Sunny 88°
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915 - MW - 111I
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well * 66.10 ft.
Depth to Water * 8.30 ft.
Length of Water Column ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1115

	Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
	0	8.30	14.48	5.95	3.80	-65	1.08	481	500	1.048
	5	8.30	17.87	6.12	6.11	-71	0.21	171	500	1.048
	10	8.30	14.80	6.31		-75	0.00	76.4	700	
	15	8.30	15.85	6.31	58.6	-77	0.00	45.6	260	
	20	8.30	16.62	6.33	46.1	-79	0.00	41.4	260	1.046
	25	8.30	16.76	6.35	52.4	-80	0.00	32.6	260	1.046
	30	8.30	16.43	6.37	64.1	-81	0.00	27.5	260	1.048
	35	8.30	16.33	6.34	70.5	-81	0.00	48.8	260	
*	0	8.30	19.17	6.75	91.3	-145	0.00	24.0	300	1.048
	5	8.30	16.43	6.61	88.8	-133	0.00	21.0	300	1.048
	10	8.30	16.17	6.54	91.0	-124	0.00	20.2	300	
	15	8.30	17.91	6.47	93.6	-116	0.00	19.9	300	
	20	8.30	17.83	6.45	94.6	-113	0.00	14.3	300	1.048
	25	8.30	17.81	6.43	96.4	-110	0.00	15.7	300	1.048
	30	8.30	17.83	6.41	97.9	-108	0.00	13.2	300	1.048

End Purge Time: 1240

Water sample:
Time collected: 1258

Physical appearance at start
Color Brown
Odor None
Sheen/Free Product None

Density Measurement Start 1.048 End 1.048
Total volume of purged water removed: 11 gals.

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

* Pumped 4 gals. before beginning readings.
* Changed Horiba

SB915-0061-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

7/23/12	Personnel	AKM	Weather	85° F - Sunny, humid	
915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-111D	
...on Camillus, NY	Sampling Method	low Flow	Project #	48127	

Well information:

Depth of Well *	99.02	ft.
Depth to Water *	6.6	ft.
Length of Water Column	92.42	ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

SB915-0061-03

Start Purge Time: 1120 (started purged for 2mins prior for sludge to pass.)

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
1120 0	6.65	14.03	5.82	>100.00	-66	0.00	1000	550	1.070
5	6.65	14.28	5.84	>100.0	-51	0.00	588	500	1.070
10	6.65	14.30	5.82	>100.0	-55	0.00	226	500	1.070
15	6.65	14.30	5.77	>100.0	-57	0.00	91.1	500	1.070
20	6.65	15.63	5.75	>100	-57	0.00	61.8	500	1.070
25	6.63	16.42	5.70	>100	-56	0.00	42.0	500	
30	6.6	16.72	5.70	>100	-57	0.00	33.5	460	
35	6.6	17.06	5.65	>100	-53	0.00	33.3	420	1.070
1200 * 40	6.6	17.15	5.67	>100	-54	0.00			
1230 * 45	6.73	17.20	6.20	>100	-50	0.00	>1000	600	1.072
50	6.75	16.32	5.59	>100	-46	0.00	>1000	500	
55	6.753	15.20	5.55	>100	-43	0.00	>1000	500	1.072
60	6.759	14.93	5.50	>100	-78	0.00	741	500	
65	6.8	14.92	5.54	>100	-51	0.00	442	500	1.072
70	6.8	15.09	5.36	>100	-44	0.00	270	500	
1300 75	6.8	14.94	5.55	>100	-49	0.00	174	500	
80	6.8	14.91	5.55	>100	-51	0.00	119	500	1.072
85	6.8	15.25	5.50	>100	-52	0.00	111	500	1.070
90	6.8	14.99	5.56	>100	-52	0.00	82.3	500	
95	6.8	14.96	5.58	>100	-53	0.00	62.4	500	
100	6.8	15.20	5.51	>100	-55	0.00	50.5	500	1.070
105	6.8	15.24	5.51	>100	-52	0.00	44.2	500	
1335 110	6.8	15.16	5.51	>100	-54	0.00	38.8	500	1.070

End Purge Time: 1345

Water sample:
Time collected: 1345

Density Measurement Start 1.070 End 1.070

Total volume of purged water removed: approx. 20 gallons

Physical appearance at start
- Color: murky grey/brown @1230 new pump; murky grey
- Odor: none; none
- Sheen/Free Product: none; none

Physical appearance at sampling
- Color: clear
- Odor: none
- Sheen/Free Product: none

Field Test Results:
- Dissolved ferrous iron:
- Dissolved total iron:
- Dissolved total manganese:
- Dissolved Oxygen:

* @ 1200 control box continued to spike in current causing generator to malfunction and then shutting control box/pump down. Turbidity and flow for 40 minute collection time could not be recorded. - pump malfunction → change pump @ SB

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/23/12	Personnel	JMN	Weather	Pt Cloudy Upper 80's
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-mw-111BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 142.75 ft.
Depth to Water * 112.05 ft.
Length of Water Column 130.7 ft.
WV = 21.30

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1109

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	13.04	21.43	6.92	47.5	-70	5.12	62	150	1.102
5	14.19	22.03	5.52	77.4	58	2.50	32	130	
10	15.23	22.01	5.54	7100	10	1.29	97	120	
15	16.63	22.01	5.91	7100	-32	1.03	127	100	
20	15.94	21.61	6.11	7100	-62	0.84	152	130	
25	16.33	22.22	6.21	7100	-72	0.63	160	130	
30	16.86	22.55	6.26	7100	-74	0.49	132	100	
35	16.83	22.51	6.27	7100	-76	0.37	128	100	
40	16.92	23.12	6.27	7100	-76	0.00	104	100	
45	17.12	23.22	6.27	7100	-75	0.00	95	100	
50	17.19	23.38	6.26	7100	-75	0.00	88	90	
55	17.30	23.71	6.25	7100	-75	0.00	80	100	
60	17.58	23.52	6.26	7100	-71	0.00	82	100	
65	18.19	22.50	6.25	7100	-69	0.00	69	100	
75	18.47	22.24	6.24	7100	-69	0.00	65	100	
80	18.56	22.47	6.23	7100	-70	0.00	64	100	
85	18.56	22.89	6.22	7100	-70	0.00	63	100	1.114

End Purge Time: 1242

Water sample:
Time collected: 1336

Density Measurement Start 1.102 End 1.114
Total volume of purged water removed: 3.5

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0061-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/24/12	Personnel	AKM	Weather	84° Sunny W/ breeze
Site Name	SB915 Closure	Evacuation Method	peristaltic pump	Well #	SB915-WR-05U
Site Location	Camillus, NY	Sampling Method	low flow	Project #	48127

Well information:

Depth of Well *	14.59	ft.
Depth to Water *	12.62	ft.
Length of Water Column	1.97	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

SB915-0062-01
SB915-0062-02 MS
SB915-0062-03 MSD

Start Purge Time: 1110

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	12.80	21.64	11.44	23.2	25	0.92	5.58	300	1.010
5	12.75	17.46	12.09	27.6	-43	0.00	3.42	300	1.011
10	12.75	16.80	12.18	28.1	-68	0.00	2.58	300	1.011
15	12.75	17.03	12.19	28.2	-90	0.00	2.50	300	
20	12.75	16.57	12.22	28.5	-107	0.00	2.70	300	1.010
25	12.75	16.42	12.23	28.6	-122	0.00	2.35	300	
30	12.75	16.59	12.23	28.7	-131	0.00	1.20	300	1.010
35	12.75	16.43	12.24	28.7	-139	0.00	1.68	300	
40	12.75	16.43	12.24	28.6	-144	0.00	1.70	300	
45	12.75	16.73	12.24	28.6	-148	0.00	2.81	300	1.010
50	12.75	16.78	12.24	28.5	-151	0.00	4.71	300	1.04

End Purge Time: 1200

Water sample:
Time collected: 1245
Physical appearance at start
Color: clear
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.010 End 1.011
Total volume of purged water removed: 6 gallons
Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/24/2012	Personnel	P. Freeyear	Weather	Mostly Sunny ~80°F Lt breeze
Site Name	SB915 Closure	Evacuation Method	Submersible Pump	Well #	SB915-WR-05mBe
Site Location	Camillus, NY	Sampling Method	Low-flow	Project #	48127

Well information:

Depth of Well *	157.40	ft.
Depth to Water *	26.10	ft.
Length of Water Column	131.30	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1117

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	26.10	25.24	4.80	>100	-62	1.39	18	100
5	29.77	18.11	5.62	>100	-91	0.65	92	200
10	30.20	18.16	5.74	>100	-96	0.14	96	200
15	30.28	17.91	5.81	>100	-99	0.14	99	200
25	30.94	18.36	5.89	>100	-101	0.12	85	200
30	30.05	18.77	5.92	>100	-101	0.14	75	180
35	31.14	18.31	5.95	>100	-99	0.12	75	180
40	31.45	18.10	5.97	>100	-99	0.19	67	200
45	31.66	17.93	5.99	>100	-95	0.08	59	200
50	31.75	18.04	6.00	>100	-95	0.09	53	200
55	31.81	18.22	6.01	>100	-96	0.03	52	200
60	31.81	18.03	6.01	>100	-97	0.03	37	200
65	31.92	18.08	6.03	>100	-98	0.04	34	200
70	31.97	18.00	6.03	>100	-97	0.03	38	200

1.132

End Purge Time: 1229

Water sample: SB915-0062-04

Time collected: 1301

Density Measurement Start 1124 End 1130

Total volume of purged water removed: ~4.5 gal

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:	N/A
Dissolved total iron:	N/A
Dissolved total manganese:	N/A
Dissolved Oxygen:	N/A

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7.24.12	Personnel	JWB	Weather	~85°F Sun/clouds
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-599
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	21.62 ft.	* Measurements taken from	
Depth to Water *	12.38 ft.	X	Top of Well Casing
Length of Water Column	ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1145

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	12.38	28.39	5.99	20.5	12	0.97	590	300	1.012
5	12.38	25.31	6.78	20.6	-50	0.12	424	300	
10	12.38	19.65	6.36	22.7	-75	0.00	198	300	
15	12.38	19.16	6.40	22.9	-84	0.00	100	300	
20	12.38	18.77	6.43	23.1	-89	0.00	67.1	300	
25	12.38	18.51	6.46	23.2	-94	0.00	36.7	300	
30	12.38	18.28	6.48	23.3	-98	0.00	20.5	300	
35	12.38	18.08	6.50	23.5	-100	0.00	18.5	300	
40	12.38	17.89	6.50	23.6	-102	0.00	14.9	300	
45	12.38	17.93	6.51	23.7	-103	0.00	17.9	300	
50	12.38	17.90	6.52	23.7	-104	0.00	16.7	300	

End Purge Time: 1235

Water sample:

Time collected: 1253

Physical appearance at start

Color: V. Light cloudy

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.012 End 1.012

Total volume of purged water removed: ~5 gallons

Physical appearance at sampling

Color: clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/24/12	Personnel	TBP	Weather	
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-705
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 26.70 ft.
Depth to Water * 17.84 ft.
Length of Water Column ____ ft.

* Measurements taken from
- ____ Top of Well Casing
- ____ Top of Protective Casing
- ____ (Other, Specify)

Start Purge Time: 1128

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	36.88	20.15	7.14	16.2	-98	0.00	71000	400	1.012
5	36.88	18.04	7.17	19.6	-105	0.00	>1000	400	
10	36.88	17.31	7.30	20.3	-111	0.00	906	500	
15	36.88	16.90	7.40	20.5	-115	0.00	499	500	
20	36.88	16.97	7.41	20.5	-116	0.00	449	500	
25	36.88	16.77	7.42	20.7	-116	0.00	395	500	
30	36.88	16.68	7.43	20.6	-116	0.00	378	500	1.012
35	36.88	16.51	7.44	20.7	-116	0.00	320	500	
40	36.88	16.44	7.45	20.6	-116	0.00	267	500	1.012
45	36.88	16.17	7.45	20.8	-117	0.00	212	500	
50	36.88	16.23	7.46	20.8	-117	0.00	188	500	
55	36.88	15.79	7.46	21.0	-117	0.00	167	500	
60	36.88	15.74	7.46	21.2	-118	0.00	184	500	
65	36.88	15.47	7.47	20.9	-119	0.00	215	400	
75	36.84	16.68	7.46	20.9	-119	0.00	151	400	
80	36.86	18.07	7.42	21.2	-121	0.00	193	150	
85	36.86	17.87	7.43	21.0	-119	0.00	381	400	
90	36.86	16.85	7.42	20.9	-116	0.00	343	400	
95	36.86	16.81	7.40	21.0	-115	0.00	178	400	
100	36.86	16.65	7.41	20.9	-115	0.00	158	400	
105	36.86	17.25	7.38	20.8	-116	0.00	126	200	
110	36.86	18.04	7.38	21.0	-117	0.00	115	200	
115	36.86	18.82	7.39	21.1	-118	0.00	150	200	

End Purge Time: 1249

Water sample:
Time collected: 1345
Physical appearance at start
Color: Murky Brown
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.012 End 1.012
Total volume of purged water removed: ____
Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron: ____
Dissolved total iron: ____
Dissolved total manganese: ____
Dissolved Oxygen: ____

SB915-0062-05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/24/12	Personnel	TBP	Weather	
Site Name	SB915 Closure	Evacuation Method	Grund Fos	Well #	SB915-MW-70S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well *	26.70	ft.	* Measurements taken from
Depth to Water *	17.84	ft.	Top of Well Casing
Length of Water Column		ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
120	36.86	19.31	7.39	20.9	-118	0.00	184	200
121	36.86	19.44	7.39	21.2	-118	0.00	210	
124								

End Purge Time: 1249

Water sample:

Time collected: 1345

Physical appearance at start

Color: Murky Brown

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.012 End 1.012

Total volume of purged water removed: ~25 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-062505

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — **Low Flow Ground Water Sampling Log**

Date	7/24/12	Personnel	EBR	Weather	Cloudy 78°
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-70D
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well *	62.22 ft.	* Measurements taken from	
Depth to Water *	18.85 ft.	X	Top of Well Casing
Length of Water Column	ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1125

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	18.84	16.64	5.54	96.1	-65	1.07	>1000	220	1.054
5	18.84	15.85	6.02	>100	-93	0.30	>1000	300	1.052
10	18.84	15.41	6.24	>100	-101	0.06	404	300	1.052
15	18.84	15.41	6.35	>100	-104	0.00	173	300	1.050
20	18.84	15.34	6.40	>100	-106	0.00	140	300	1.052
25	18.84	15.52	6.44	>100	-107	0.00	87.4	300	
30	18.84	15.55	6.47	>100	-108	0.00	56.3	300	1.052
35	18.84	15.51	6.48	>100	-108	0.00	45.6	300	1.052
40	18.84	15.65	6.49	>100	-108	0.00	40.0	300	1.050
45	18.84	15.72	6.50	>100	-104	0.00	49.4	300	1.052
50	18.84	15.65	6.51	>100	-104	0.00	32.6	300	1.052
55	18.84	15.75	6.52	>100	-104	0.00	27.1	300	1.052
60	18.84	15.84	6.52	>100	-108	0.00	26.4	300	1.052

End Purge Time: 1225

Water sample:
Time collected: 1256

Density Measurement Start 1.054 End 1.052

Total volume of purged water removed: 5 gals.

Physical appearance at start
Color: Cloudy
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0062-06
SB915-0062-07 (Field Dup.)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/24/12	Personnel	EBR	Weather	Mostly Sunny 81°
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-MW-60S
Site Location	Camillus, NY	Sampling Method	Peristaltic	Project #	48127

Well information:

Depth of Well * 21.86 ft.
Depth to Water * 12.88 ft.
Length of Water Column ____ ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1345

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	12.93	25.86	6.11	15.0	-74	0.47	42.8	300	1.010
5	12.93	24.40	6.06	14.4	-80	0.08	27.5	300	1.010
10	12.93	24.21	6.04	13.8	-81	0.00	23.1	300	1.010
15	12.93	23.83	6.06	13.4	-83	0.00	19.4	300	1.010
20	12.93	23.54	6.08	13.2	-85	0.00	21.8	300	1.010
25	12.93	23.36	6.10	13.0	-87	0.00	20.3	300	1.010
30	12.93	23.15	6.12	13.1	-89	0.00	12.7	300	1.010

End Purge Time: 1415

Water sample:
Time collected: 1438

Density Measurement Start 1.010 End 1.010
Total volume of purged water removed: 3 gals.

Physical appearance at start
Color Clear
Odor Slight Sulfur
Sheen/Free Product None

Physical appearance at sampling
Color Clear
Odor Slight Sulfur
Sheen/Free Product None

Field Test Results:
Dissolved ferrous iron: ____
Dissolved total iron: ____
Dissolved total manganese: ____
Dissolved Oxygen: ____

SB915-0062-10

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7.20.12	Personnel	JWB	Weather	~70°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-IMW-045
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	17.75	ft.
Depth to Water *	9.50	ft.
Length of Water Column	8.25	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1220

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	10.02	17.82	8.99	12.9	-267	3.38	9.81	300	1.006
5	10.02	17.96	8.57	12.9	-238	3.02	25.1	300	
10	10.10	17.58	8.11	12.8	-195	1.13	8.36	300	
15	10.10	17.62	7.83	12.6	-178	0.62	4.89	250	
20	10.10	17.79	7.69	12.7	-169	0.26	2.74	250	
25	10.10	18.22	7.63	12.4	-166	0.12	2.88	250	
30	10.10	18.39	7.61	12.1	-166	0.00	2.12	250	
33	10.10	18.33	7.61	11.9	-167	0.00	1.87	250	
36	10.10	18.24	7.62	11.7	-167	0.00	1.77	250	
39	10.10	18.16	7.62	11.	-168	0.00	1.75	250	1.004

End Purge Time: 1259

Water sample:

Time collected: 1306

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.006 End 1.004

Total volume of purged water removed:

Physical appearance at sampling

Color: clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-IMW-045

SB915-0060-08

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/20/12	Personnel	JAK	Weather	~75°F, overcast
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MWB-07U
Site Location	Camillus, NY	Sampling Method	Low-flow	Project #	48127

Well information:

Depth of Well *	55.80	ft.
Depth to Water *	9.76	ft.
Length of Water Column	46.04	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1020

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	9.74	19.16	6.50	28.5	-112	0.00	7999	480	1.014
5	9.73	19.55	6.56	28.4	-121	0.00	7999	220	
10	9.73	18.18	6.52	29.5	-106	0.00	7999	300	1.014
15	9.73	17.01	6.47	30.0	-90	0.00	921	300	
20	9.73	16.74	6.37	29.9	-76	0.00	162	300	1.014
25	9.73	16.33	6.34	30.3	-72	0.00	88.3	300	
30	9.73	16.23	6.34	30.4	-70	0.00	56.5	300	1.012
35	9.73	16.17	6.32	30.3	-68	0.00	41.4	300	
40	9.73	16.17	6.31	30.4	-65	0.00	43.5	300	1.012
45	9.73	16.02	6.33	30.5	-66	0.00	26.4	300	
50	9.73	15.99	6.32	30.4	-64	0.00	21.2	300	1.012
55	9.73	16.97	6.32	30.5	-64	0.00	20.6	300	

End Purge Time: 1115

SB915-0060-04

Water sample:

Time collected: 1130

Physical appearance at start

Color: Cloudy - Brown/Rust color

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.014 End 1.012

Total volume of purged water removed: 6.0 gal

Physical appearance at sampling

Color: clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/20/12	Personnel	JAK	Weather	~75°F overcast
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-IMW-05S
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	18.11	ft.	* Measurements taken from
Depth to Water *	5.10	ft.	X Top of Well Casing
Length of Water Column	13.01	ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1150

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	5.10	19.41	9.96	23.2	-241	1.00	303	320	1.008
5	5.63	18.64	10.18	24.1	-282	0.12	58.6	320	
10	5.59	19.18	10.15	24.4	-296	0.00	25.9	300	
15	5.60	19.47	10.17	24.6	-301	0.00	11.5	300	1.010
20	5.60	19.78	10.27	25.0	-311	0.00	6.84	300	1.010
25	5.61	19.87	10.34	25.3	-318	0.00	5.48	300	
30	5.61	20.04	10.37	25.5	-323	0.00	4.17	300	1.010
35	5.61	20.11	10.41	25.6	-330	0.00	3.85	300	
40	5.61	20.18	10.45	25.7	-336	0.00	3.44	300	1.012
45	5.62	20.49	10.47	25.9	-342	0.00	6.75	300	
50	5.62	20.76	10.49	25.8	-348	0.00	3.64	300	1.010
55	5.62	20.81	10.52	25.9	-353	0.00	2.52	300	
60	5.62	20.82	10.54	25.9	-354	0.00	2.74	300	1.010

End Purge Time: 1250

SB915-0060-06

Water sample:

Time collected: 1305

Density Measurement Start 1.008 End 1.010

Total volume of purged water removed: ~7.0 gal

Physical appearance at start

Color: Cloudy-Light brown

Odor: none

Sheen/Free Product: none

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/20/12	Personnel	JMN	Weather	Overcast 70's
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-07BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	114.59 ft.	* Measurements taken from	
Depth to Water *	15.46 ft.	X	Top of Well Casing
Length of Water Column	99.13 ft.		Top of Protective Casing
	WV = 16.16 gal		(Other, Specify)

Start Purge Time: 1018

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	16.21	17.23	4.86	2.42	175	8.72	35	100	1.104
5	17.22	17.50	5.77	2.60	110	7.54	59	150	
10	18.21	17.72	6.22	2.34	36	7.17	137	100	
15	18.89	17.39	6.43	2.23	-14	7.03	168	120	
20	19.54	17.14	6.61	0.210	-29	7.06	127	120	
25	20.17	18.21	6.80	0.206	-33	6.67	180	100	1.104
30	20.71	18.45	6.82	0.224	-37	6.46	139	100	
35	21.75	17.22	7.02	0.036	-66	6.40	89	300	
45 *	23.54	21.89	5.32	0.000	181	1.64	66	300	
50	24.07	18.89	6.09	0.000	74	0.43	59	300	1.104
55	25.01	17.98	6.38	7100	4	0.00	65	300	
60	26.75	17.83	6.84	7100	-44	0.00	50	300	
65	27.64	17.73	6.86	7100	-59	0.00	63	300	
70	28.30	17.83	7.16	7100	-77	0.00	85	150	
75	28.89	18.26	7.09	7100	-85	0.00	52	100	1.104
80	29.31	18.42	7.24	7100	-117	0.00	73	150	
85	30.03	18.42	7.33	7100	-146	0.00	54	150	
90	30.42	18.57	7.30	7100	-140	0.00	68	150	
95	31.01	18.53	7.34	7100	-180	0.00	121	150	
100	31.52	18.55	7.39	7100	-146	0.00	71	150	
105	31.78	18.90	7.40	7100	-149	0.00	67	120	
110	32.29	18.97	7.41	7100	-140	0.00	69	120	

End Purge Time: 1212

Water sample:

Time collected: 1238

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.104 End 1.104

Total volume of purged water removed: 6 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0060-03

* Changed Water quality Meter.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/19/2012	Personnel	JMN	Weather	Sunny, 75°F, lt breeze
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WB-10u
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well * 19.18 ft.
Depth to Water * 8.38 ft.
Length of Water Column 10.8 ft.
WV = 1.76 gal

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

,163

Start Purge Time: 1015

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	11.62	16.27	6.00	46.4	-25	0.19	136	150	1.019
5	11.85	16.25	6.03	46.8	-26	0.00	127	150	
10	12.39	16.18	6.09	49.0	-34	0.00	119	150	1.019
15	12.85	16.50	6.12	49.0	-39	0.00	115	150	
20	13.28	16.51	6.14	50.6	-45	0.00	102	150	1.019
25	13.60	16.48	6.17	50.5	-49	0.00	95.6	150	
30	14.26	16.41	6.18	52.0	-57	0.00	95.6	150	1.020
* 35	15.10	16.75	6.28	54.5	-54	1.01	89.1	150	
40	15.22	17.39	6.25	54.5	-50	0.09	84.4	100	1.022
45	15.70	17.68	6.23	62.9	-56	0.00	44.0	100	
50	15.91	17.46	6.24	65.0	-60	0.00	41.4	100	1.024
55	16.11	17.03	6.28	66.9	-67	0.00	35.0	100	
60	16.40	17.76	6.28	65.2	-70	0.00	26.6	100	1.026
65	16.78	17.74	6.30	64.7	-75	0.00	22.7	100	
70	16.40	17.58	6.30	66.8	-76	0.00	17.1	100	1.026
75	17.12	17.33	6.30	69.1	-78	0.00	12.0	100	
80	17.36	17.78	6.31	70.1	-80	0.00	8.96	110	1.030
85	17.58	17.78	6.31	72.2	-82	0.00	8.64	100	
** 90	17.70	17.66	6.31	73.6	-83	0.00	8.52	100	1.030

End Purge Time: 1203

Water sample:
Time collected: 1402 - 7/20/2012
Physical appearance at start
Color: Cloudy
Odor: Sulfur like odor
Sheen/Free Product: None

Density Measurement Start 1.019 End 1.030
Total volume of purged water removed: 4 gal
Physical appearance at sampling
Color: Clear
Odor: Sulfur like odor
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

- SB915-0060-11 (JB)
- well was pooling just under 100 ml/min
** Well dry after 90 min, Removed ~3 Well Volumes
* Line disconnected and Flow thru cell drained

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/20/12	Personnel	EBR	Weather	Overcast 72°
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-IMW-02S
Site Location	Camillus, NY	Sampling Method	Peristaltic	Project #	48127

Well information:

Depth of Well * 29.63 ft.
Depth to Water * 5.12 ft.
Length of Water Column ____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1200

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	7.28	17.53	6.14	53.1	-33	0.00	72.4	200	1.022
5	8.20	17.41	6.14	52.0	-38	0.00	36.8	200	1.022
10	9.02	16.96	6.13	52.4	-40	0.00	24.5	200	1.022
15	9.41	16.85	6.13	52.5	-40	0.00	24.7	200	1.022
20	9.63	16.76	6.12	52.4	-40	0.00	22.9	200	1.022
25	9.74	16.70	6.13	52.2	-39	0.00	20.6	200	1.022
30	9.89	16.92	6.12	52.2	-40	0.00	19.3	200	1.022

End Purge Time: 1230

Water sample:
Time collected: 1257

Density Measurement Start 1.022 End 1.022
Total volume of purged water removed: 3 gals.

Physical appearance at start
Color Clear
Odor None
Sheen/Free Product None

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:
Dissolved ferrous iron: ____
Dissolved total iron: ____
Dissolved total manganese: ____
Dissolved Oxygen: ____

SB915-00

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — **Low Flow Ground Water Sampling Log**

Date	7/20/12	Personnel	SJW	Weather	70s/cloudy
Site Name	SB915 Closure	Evacuation Method	grundfos	Well #	SB915-TMW-06S
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well information: SB915-0060-05

Depth of Well * _____ ft.
Depth to Water * 4.85 ft.
Length of Water Column _____ ft.

* Measurements taken from
X Top of Well Casing
Top of Protective Casing
(Other, Specify)

Start Purge Time: 1050

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
1050 0	5.06	17.89	12.84	28.1	-240	3.57	40.1	300
5	5.12	18.07	13.52	26.9	-280	2.11	29.2	340
10	5.16	18.16	13.61	27.2	-292	1.51	21.2	400
15	5.18	18.21	13.64	27.0	-293	1.09	14.1	400
20	5.21	18.29	13.63	27.0	-293	0.79	11.5	360
25	5.22	18.28	13.64	27.1	-293	0.55	9.46	320
30	5.23	18.28	13.64	27.1	-293	0.35	7.99	360
35	5.28	18.40	13.64	27.0	-293	0.17	6.78	360
40	5.28	18.50	13.64	27.0	-293	0.05	6.09	360
45	5.29	18.45	13.65	27.3	-294	0.00	5.18	360
48	5.29	18.42	13.65	27.3	-294	0.00	5.44	360
51	5.29	18.43	13.65	27.3	-294	0.00	5.21	360

End Purge Time: 1144

Water sample:
Time collected: 1154
Physical appearance at start
Color slightly cloudy
Odor none
Sheen/Free Product none

Density Measurement Start 1.010 End 1.010
Total volume of purged water removed: ~8gal.
Physical appearance at sampling
Color clear
Odor none
Sheen/Free Product none

Field Test Results:
Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/20/12	Personnel	SJW	Weather	70s/cloudy
Site Name	SB915 Closure	Evacuation Method	grundfos	Well #	SB915-IMW-03S
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well information: SB915-0060-07

Depth of Well * 26.10 ft.
Depth to Water * 8.48 ft.
Length of Water Column ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1213

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
1215 0	10.12	17.77	6.27	1016.9	-94	9.16	46.16	280
5	10.18	17.08	6.43	62.0	-108	0.2	45.0	100
10	10.40	18.35	6.47	60.0	-108	0.0	29.1	260
15	10.57	18.52	6.49	58.6	-107	0.0	30.7	140
20	11.05	18.42	6.49	58.7	-105	0.0	29.8	240
25	11.13	19.37	6.50	58.4	-106	0.0	30.7	160
30	11.18	20.30	6.49	60.6	-106	0.0	28.5	140
35	11.20	20.99	6.48	62.6	-104	0.0	30.3	120
40	11.23	21.28	6.47	63.4	-103	0.0	31.9	100
45	11.28	21.54	6.46	64.2	-103	0.0	32.1	120
50	11.30	21.61	6.46	65.0	-103	0.0	28.6	120

End Purge Time: 1310

Water sample:
Time collected: 1338
Physical appearance at start
Color cloudy/grayish
Odor none
Sheen/Free Product none

Density Measurement Start 1.038 End 1.032
Total volume of purged water removed:
Physical appearance at sampling
Color slightly cloudy
Odor none
Sheen/Free Product none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/20/2012	Personnel	P. Freyer	Weather	Overcast, ~75°F, calm
Site Name	SB915 Closure	Evacuation Method	Submersible Pump	Well #	SB915-IMW-01S
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well * 20.05 ft.
Depth to Water * 7.99 ft.
Length of Water Column ____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 10:32

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	~~8.40~~ 7.99	17.06	6.14	34.0	4	2.15	424	240
5	8.47	16.80	6.25	34.9	-10	0.00	304	210
10	8.59	17.47	6.28	34.4	-3	0.00	162	200
15	8.78	17.88	6.32	32.4	18	0.00	84.4	200
20	8.96	18.11	6.34	32.1	21	0.00	166.7	120
25	9.04	18.62	6.36	31.4	25	0.00	49.3	120
30	9.24	18.13	6.38	31.3	27	0.00	35.7	160
35	9.32	18.55	6.39	30.7	27	0.00	27.9	120
40	9.45	18.93	6.39	30.9	25	0.00	23.6	140
45	9.56	19.10	6.39	30.9	26	0.00	21.5	140
50	9.68	18.57	6.39	31.2	26	0.00	16.8	140
55	9.79	18.45	6.42	30.1	28	0.00	13.6	160
60	10.12	18.27	6.41	30.5	4	0.00	11.8	200
65	10.27	17.86	6.45	29.4	-6	0.00	9.74	200
70	10.41	18.59	6.43	29.4	-13	0.00	6.67	200
75	10.53	19.04	6.43	29.6	-10	0.00	5.23	200
80	10.62	19.42	6.43	29.7	-9	0.00	5.64	200
85	10.76	19.09	6.43	30.0	-9	0.00	5.52	200

End Purge Time: 1200

Water sample: SB915-0060-02
Time collected: 1220

Density Measurement Start 1.012 End 1.014
Total volume of purged water removed: ~4 gal

Physical appearance at start
Color: Clearish tan
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron: N/A
Dissolved total iron: N/A
Dissolved total manganese: N/A
Dissolved Oxygen: N/A

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/20/2012	Personnel	P. Freyer	Weather	overcast ~75°F, lt breeze
Site Name	SB915 Closure	Evacuation Method	peristaltic Pump	Well #	SB915-MW-1109
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	20.20	ft.
Depth to Water *	4.72	ft.
Length of Water Column	15.58	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1322

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	4.72	19.60	7.09	8.55	-123	4.27	103	500
5	5.44	16.75	6.86	8.46	-128	0.00	63.7	340
10	5.42	16.17	6.82	8.37	-129	0.00	19.4	340
15	5.44	15.64	6.76	8.87	-128	0.00	9.25	340
20	5.46	15.57	6.72	9.08	-125	0.00	5.28	340
25	5.47	15.50	6.70	9.17	-123	0.00	3.40	340
30	5.49	15.53	6.69	9.28	-122	0.00	2.78	340
35	5.50	15.53	6.68	9.31	-121	0.00	3.67	340

End Purge Time: 1358

Water sample: SB915-0060-10

Time collected: 1414

Density Measurement Start 1.008 End 1.006

Total volume of purged water removed: ~3gal

Physical appearance at start

Color: clear

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: N/A

Dissolved total iron: N/A

Dissolved total manganese: N/A

Dissolved Oxygen: N/A

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/19/12	Personnel	JWB	Weather	~80°F Sunny
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-12S
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well Information:

Depth of Well *	41.60	ft.
Depth to Water *	41.11	ft.
Length of Water Column	0.49	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: —

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
X Not enough water to Sample								

End Purge Time: —

Water sample:

Time collected: NA

Physical appearance at start

Color: —

Odor: —

Sheen/Free Product: —

Density Measurement Start — End —

Total volume of purged water removed: —

Physical appearance at sampling

Color: —

Odor: —

Sheen/Free Product: —

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/19/12	Personnel	JAK	Weather	~85°F, Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-42I
Site Location	Camillus, NY	Sampling Method	Low-flow	Project #	48127

Well information:

Depth of Well *	70.08	ft.
Depth to Water *	47.49	ft.
Length of Water Column	22.57	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1100

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	49.51	19.57	13.56	>100	-298	2.42	69.3	130	1.054
5	50.91	18.92	13.63	7100	-300	1.24	25.2	100	
10	51.25	19.10	13.62	7100	~~-300~~ -112	0.93	23.7	100	1.052
15	51.81	18.02	13.66	7100	~~-300~~ -112	0.68	22.6	80	1.052
20	52.23	18.28	13.66	7100	-103	0.44	24.0	100	
25	52.51	18.14	13.66	>100	-100	0.32	26.4	90	1.052
30	53.17	18.23	13.67	>100	-96	0.21	24.0	120	
35	53.46	18.23	13.67	>100	-91	0.06	25.4	100	1.052
40	53.81	18.56	13.67	7100	-88	0.00	19.2	80	
45	54.07	18.90	13.66	7100	-85	0.00	24.2	100	1.052
50	54.41	19.04	13.67	>100	-81	0.00	22.4	100	

End Purge Time: 1150

SB915-0059-07

Water sample:

Time collected: 1220

Density Measurement Start 1.054 End 1.052

Total volume of purged water removed:

Physical appearance at start

Color: clear
Odor: none
Sheen/Free Product: none

Physical appearance at sampling

Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/19/12	Personnel	TBP	Weather	~
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-113S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	29.40	ft.
Depth to Water *	11.31	ft.
Length of Water Column	18.09	ft.
	2.45	

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1300

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	12.81	15.40	12.80	26.6	-255	1.89	119.9	500
5	13.12	15.60	12.89	28.2	-268	0.08	98.3	500
10								
15	12.91	15.89	12.25	28.8	-260	0.00	201	300
20	12.92	15.82	12.13	34.3	-264	0.00	687	300
25	12.89	15.87	12.08	31.7	-269	0.00	>1000	300
30	12.89	15.76	12.07	29.8	-274	0.00	>1000	300
35	12.93	15.66	12.10	29.6	-281	0.00	>1000	300
40	12.97	15.60	12.12	30.0	-287	0.00	832	300
45	13.02	15.46	12.12	33.6	-296	0.00	509	300
50	12.93	15.63	12.05	32.6	-296	0.00	587	300
55	12.99	15.00	12.12	29.9	-306	0.00	339	300
60	1302	15.53	12.12	34.3	-311	0.00	283	300
65	13.02	15.50	12.12	30.1	-335	0.00	224	300
70	13.03	15.50	12.09	34.6	-319	0.00	224	300
75	13.04	15.50	12.12	34.8	-325	0.00	155	300
80	13.05	15.52	12.11	32.4	-330	0.00	132	300
85	13.08	15.48	12.12	29.6	-332	0.00	121	300
90	13.1	15.47	12.11	29.9	-334	0.00	124	300
95	13.03	15.51	12.10	33.4	-337	0.00	107	300
100	13.07	15.54	12.10	32.9	-339	0.00	94.4	300
105	13.01	15.58	12.08	32.0	-340	0.00	103	300
110	12.65	15.89	12.03	33.6	-346	0.00	169	100

End Purge Time: 1527

Water sample:
Time collected: 1545

Density Measurement Start 1.014 End 1.014

Total volume of purged water removed: ~16 gal

Physical appearance at start
Color: Cloudy
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0059-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/19/12	Personnel	TBP	Weather	
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW113S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	29.40	ft.
Depth to Water *	11.31	ft.
Length of Water Column	18.09	ft.

* Measurements taken from
- [ ] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1300

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
115	15.86	11.71							
115	12.70	15.87	11.74	32.3	-339	0.00	177	100	
120	12.75	15.91	12.09	34.2	-359	0.00	105	100	
125	12.75	15.79	12.11	34.9	-364	0.00	106	100	
130	12.78	15.77	12.09	32.8	-370	0.00	106	100	
135	12.78	15.80	12.08	30.1	-375	0.00	120	100	
140	12.78	15.78	12.09	32.4	-380	0.00	102	100	
141	12.78	15.78	12.08	34.7	-381	0.00	124	100	1.014
144	12.78	15.85	12.06	34.5	-381	0.00	138		
147									

End Purge Time: 1527

Water sample:
Time collected: 1545

Density Measurement Start 1.014 End 1.014
Total volume of purged water removed: ~16 gal

Physical appearance at start
Color: Cloudy
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0059-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/19/12	Personnel	JAK	Weather	~85°F, Sunny
Site Name	SB915 Closure	Evacuation Method	GroundFos	Well #	SB915-MW-112I
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	58.54	ft.
Depth to Water *	16.57	ft.
Length of Water Column	41.97	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1320

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	16.65	24.10	7.46	0.000	-52	1.96	536	200	1.036
5	16.65	23.95	6.21	71.7	-49	0.00	544	200	1.042
10	16.64	23.24	6.12	75.6	-51	0.00	475	200	
15	16.64	20.88	6.09	78.1	-50	0.00	315	140	
20	16.64	18.14	6.06	81.4	-49	0.00	160	250	1.042
25	16.64	17.76	6.00	76.1	-47	0.00	114	200	
30	16.64	17.60	6.01	74.3	-46	0.00	92.6	200	1.042
35	16.64	17.43	6.00	78.6	-45	0.00	87.5	200	
40	16.64	17.24	6.00	24.7	-44	0.00	76.9	200	
45	16.64	17.15	5.98	75.2	-43	0.00	86.3	200	1.042
50	16.64	17.35	5.98	84.3	-43	0.00	78.5	200	
55	16.64	17.32	5.97	84.5	-42	0.00	73.6	200	1.042
60	16.64	17.06	5.97	84.8	-41	0.00	80.2	200	
65	16.64	17.17	5.97	85.2	-41	0.00	65.2	200	1.042
70	16.64	16.95	5.97	85.6	-41	0.00	66.2	200	
75	16.64	16.66	5.97	85.7	-41	0.00	50.3	200	1.042
80	16.64	16.89	5.97	85.5	-41	0.00	48.8	200	
85	16.64	16.97	5.97	84.9	-41	0.00	48.0	200	
90	16.64	16.56	5.97	85.4	-40	0.00	39.9	200	

End Purge Time: 1450

SB915-0059-11

Water sample:

Time collected: 1505

Physical appearance at start

Color: Cloudy - Light brown

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.036 End 1.042

Total volume of purged water removed: 7-gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	~~7/19/12~~ 7/19/12	Personnel	JMM	Weather	Pt Cloudy 80's
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-112S
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	48127

Well information:

Depth of Well *	20.06	ft.
Depth to Water *	14.27	ft.
Length of Water Column	5.79	ft.

WV = 0.94 gal

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1332

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	14.90	19.75	12.20	12.3	~~210~~	~~59.0~~ x100	23.8	260	1.004
5	15.~~87~~21	18.76	11.84	12.1	~~218~~	~~34.2~~	11.9	180	
10	~~15.20~~ 15.32	18.51	11.70	12.1	4	~~24.2~~	4.9	180	1.003
15	15.47	18.12	11.42	12.0	7	~~18.5~~	2.89	180	
20	15.57	19.34	11.28	11.8	6	~~14.7~~	3.61	150	1.003
25	15.64	19.67	11.21	11.7	5	0.91	3.96	150	
30	15.65	19.64	11.26	11.7	-1	0.81	4.44	150	1.003
35	15.76	19.47	11.30	11.7	-5	0.62	4.89	150	
40	15.83	19.30	11.40	11.8	-11	0.48	7.62	150	1.003
45	15.87	19.26	11.43	11.8	-11	0.41	6.64	150	
50	15.91	19.29	11.45	11.8	-11	0.32	6.50	150	1.003

End Purge Time: 1430

Water sample:

Time collected: 1451

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.004 End 1.003

Total volume of purged water removed: 3.5 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

~~SB9~~ SB915-0059-10

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/19/12	Personnel	JWB	Weather	~80°F Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-42D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	133.40	ft.
Depth to Water *	68.22	ft.
Length of Water Column	65.18	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1100

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	69.80	21.61	5.41	88.8	-48	1.15	>1000	300	1.054
5	68.80	19.55	6.34	97.7	-110	0.72	>1000	300	
10	68.78	15.48	6.94	>100.0	-114	1.50	921	300	
15	68.78	14.95	7.09	>100.0	-107	0.25	574	300	1.056
20	68.78	14.79	7.19	>100.0	-101	0.04	255	300	
25	68.80	14.63	7.20	>100.0	-96	0.00	175	300	
30	68.80	14.76	7.16	>100.0	-92	0.00	111	300	
35	68.80	14.84	7.13	>100.0	-91	0.00	87.4	350	
40	68.80	15.05	7.09	>100.0	-89	0.00	87.2	350	
45	68.80	15.09	7.08	>100.0	-88	0.00	87.4	400	
50	68.80	15.03	7.06	>100.0	-87	0.00	87.4	400	1.056

End Purge Time: 1150

Water sample:

Time collected: 1214

Physical appearance at start

Color: Med-gray

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.054 End 1.056

Total volume of purged water removed: ~7 gallons

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0059-08

SB915-0059-09 (FD)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/19/12	Personnel	JBP	Weather	
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB 915 - WB - 10L
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well information:

Depth of Well * _____ ft.

Depth to Water * 7.07 ft.

Length of Water Column _____ ft.

* Measurements taken from

_____ Top of Well Casing

_____ Top of Protective Casing

_____ (Other, Specify)

Start Purge Time: 1010

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
1010 0	7.17	13.24	6.22	31.2	-89	11.15	>1000	1000	1.056
5	7.11	13.59	6.37	44.3	-95	7.12	>1000	700	
10	7.11	13.70	6.33	35.6	-95	6.6	>1000	500	
15	7.11	13.75	6.30	40.0	-95	5.85	1000	500	
20	7.11	14.13	6.30	37.0	-94	4.96	1000	500	
25	7.11	14.56	6.29	42.5	-93	4.01	542	500	
30	7.11	13.83	6.28	53.0	-91	3.76	330	500	1.052
35	7.11	13.58	6.26	49.0	-92	3.33	225	500	
40	7.11	13.59	6.26	36.5	-90	2.85	158	500	
45	7.11	13.64	6.25	58.7	-89	2.20	97	500	
50	7.11	13.54	6.25	72.3	-68	0.00	90	500	
55	7.11	13.54	6.25	70.3	-75	0.00	64	500	1.052
~~60~~									
65	7.11	13.55	6.25	63.4	-76	0.00	60	500	
70	7.11	13.57	6.25	76.5	-78	0.00	55	500	
75	7.11	13.65	6.25	69.0	-79	0.00	35	500	
80	7.11	13.67	6.25	73.1	-80	0.00	32	500	1.052
85	7.11	13.61	6.25	63.8	-80	0.00	30	500	
90	7.11	13.62	6.25	81.3	-80	0.00	28	500	
95	7.11	13.54	6.25	86.0	-88	0.00	28	500	
100	7.11	13.49	6.25	>100	-80	0.00	23	500	
105	7.11	13.24	6.25	>100	-79	0.00	22	500	
110	7.11	13.30	6.25	>100	-77	0.00	22	500	1.052

End Purge Time: 1150

Water sample:

Time collected: 1200

Physical appearance at start

Color: Brown / Cloudy

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.056 End 1.052

Total volume of purged water removed: _____

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0059-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/19/2012	Personnel	P. Freyer	Weather	Sunny 78°F
Site Name	SB915 Closure	Evacuation Method	Submersible Pump	Well #	SB915-WB-09L
Site Location	Camillus, NY	Sampling Method	Low - Flow	Project #	48127

Well information:

Depth of Well *	74.75	ft.
Depth to Water *	6.49	ft.
Length of Water Column	68.26	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1044

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	6.49	17.18	6.52	90.3	-17	1.02	>1000	460	
5	6.49	14.50	6.36	68.1	-25	3.45	>1000	460	
10	6.49	14.70	6.38	63.4	-35	0.00	>1000	480	
15	6.49	14.49	6.37	65.1	-28	0.00	>1000	400	
20	6.48	14.91	6.36	63.6	-31	0.00	>1000	380	
25	6.48	14.31	6.36	64.5	-33	0.00	880	480	
30	6.48	14.19	6.36	58.1	-35	0.00	788	480	
35	6.48	14.35	6.35	60.3	-35	0.00	748	480	
40	6.48	14.70	6.40	5.29	-37	15.83	721	480	**
50	6.48	15.60	7.09	86.9	-140	0.20	579	480	
55	6.48	15.40	6.49	83.6	-106	0.00	408	480	
60	6.48	15.41	6.20	84.6	-82	0.00	338	480	
65	6.48	15.39	6.10	71.2	-73	0.00	314	480	
70	6.48	15.41	5.95	66.5	-64	0.00	256	480	
75	6.48	15.86	5.88	79.0	-60	0.00	196	480	
80	6.48	16.14	5.84	42.3	-56	0.00	183	480	
85	6.48	15.97	5.83	43.7	-56	0.00	150	440	
90	6.48	15.38	5.84	47.8	-54	0.00	123	480	
95	6.48	15.43	5.81	43.1	-54	0.00	130	480	
100	6.48	15.51	5.80	83.3	-53	0.00	119	480	
105	6.48	15.53	5.79	57.7	-53	0.00	129	480	
110	6.48	15.90	5.81	52.2	-51	0.00	122	400	
115	6.48	16.55	5.76	21.6	-52	0.00		400	

End Purge Time: 13:17

~~SB915-0059-02~~ SB915-0059-03

Water sample:

Time collected: 1349

Physical appearance at start

Color: Lt. Brown

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.050 End 1.052

Total volume of purged water removed: ~22 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:	N/A
Dissolved total iron:	N/A
Dissolved total manganese:	N/A
Dissolved Oxygen:	N/A

Due to initial turbid flow ~3 gallons were purged @ ~1000 ml/min prior to collecting parameters. Initial readings reflect the initial parameters collected.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

** - water quality meter failed - occassional build up of air in the discharge line

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	7/19/2012	Personnel	P. Freyer	Weather	
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-WB-09L
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well information:

Depth of Well * _____ ft.

Depth to Water * _____ ft.

Length of Water Column _____ ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
120	6.48	16.96	5.74	1.13	-52	0.00	85.4	320
125	6.48	17.46	5.75	46.5	-52	0.00	53.2	300
130	6.48	17.54	5.75	72.7	-52	0.00	52.2	300
135	6.48	17.71	5.75	55.5	-52	0.00	48.6	300
140	6.48	17.65	5.75	83.6	-52	0.00	51.2	300
145	6.48	17.51	5.75	85.7	-52	0.00	47.0	300
150	6.48	17.44	5.75	82.6	-52	0.00	46.8	300

1.052

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

See Pg. 1

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7/19/12	Personnel	EBR	Weather	Partly Sunny 80°
Site Name	SB915 Closure	Evacuation Method		Well #	SB915-WR-09U
Site Location	Camillus, NY	Sampling Method	Peristaltic	Project #	48127

Well information:

Depth of Well *	14.56	ft.
Depth to Water *	12.32	ft.
Length of Water Column		ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1045

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	13.88	18.11	7.31	19.3	-132	5.43	1076	200	1.012
5	13.78	17.89	10.26	25.6	-165	5.61	121	180	1.014
10	13.76	17.67	10.61	27.1	-165	5.76	22.1	180	1.014
15	13.78	17.58	10.72	28.1	-164	5.79	5.94	180	1.014
20	13.78	17.55	10.78	28.7	-165	5.71	3.26	180	1.014
25	14.25	16.71	10.64	29.6	-181	2.72	11.4	180	1.014
30	14.25	16.40	10.42	29.9	-184	3.07	6.23	180	1.014
35	14.26	16.83	10.44	30.0	-184	3.29	4.88	180	1.014

End Purge Time: 1120

Water sample:

Time collected: 1230

Physical appearance at start

Color: Cloudy

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.012 End 1.014

Total volume of purged water removed: 3 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

* Lots of air in line.

SB915-0059-04; MS-05; MSD-06

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

Appendix F-3

Round 3 (October & November 2012) Groundwater Sampling Logs

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/16/12	Personnel	JWB	Weather	Partly cloudy 40°F
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-01
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information: 11/19/12

Depth of Well *	18.33	ft.	18.33	* Measurements taken from
Depth to Water *	10.40	ft.	11.00	X Top of Well Casing
Length of Water Column	7.73	ft.	7.33	Top of Protective Casing
			1.19 1 Well Vol.	(Other, Specify)

Start Purge Time: 1605

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	~~11.00~~ 11.00	13.65	7.46	2.37	12	1.74	3.89	320	1.000
5	12.05	14.07	7.07	.896	54	.49	1.24	420	
10	12.58	14.16	7.01	.869	54	.39	1.13	430	
15	13.1	14.27	6.96	.866	50	.27	.75	420	
20	13.8	14.25	6.92	.866	52	.20	.63	420	
23.5 → 25	14.4	14.19	6.91	.867	64	.34	.30	420	
gal 35	15.9	13.96	6.88	.869	95	.49	.76	500	
39 gal → 40	16.55	13.86	6.86	.863	105	.58	.52	500	
~~45~~	16.85	13.79	6.86	.861	108	.53	1.14	500	
11/20/12	11.15								
Attempting to Low Flow Sample									
1235 0	11.58	11.98	5.33	.893	111	4.09	8.85	240	1.002
5	11.85	13.42	5.31	.894	148	3.76	5.56	220	
10	12.06	13.47	5.35	.897	158	3.42	5.66	200	
15	12.22	13.51	5.39	.902	162	3.31	421	200	
20									
25									
30									

End Purge Time: 1250

Water sample:

Time collected: 1400

Physical appearance at start

Color: clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.000 End 1.002

Total volume of purged water removed: ~6 gallons

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0084-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11-6-12	Personnel	JWB	Weather	~32°F cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-03
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	36.38	ft.
Depth to Water *	8.62	ft.
Length of Water Column	27.76	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0935

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	8.60	9.82	6.11	16.1	26	2.47	-	-	1.006
5	8.60	10.87	6.49	15.6	-7	1.96	1.85	260	
10	8.60	11.02	6.62	15.4	-14	0.83	0.82	320	
15	8.60	11.09	6.68	15.3	-19	0.12	1.38	320	
20	8.60	11.10	6.71	15.3	-21	0.08	0.44	320	
25	8.60	11.12	6.72	15.4	-22	0.10	0.97	320	
30	8.60	11.13	6.72	15.3	-23	0.04	0.84	320	
35	8.60	11.13	6.72	15.3	-23	0.00	0.73	320	
40	8.60	11.15	6.72	15.3	-24	0.00	0.65	320	1.006

End Purge Time: 1015

Water sample:

Time collected: 1025

Physical appearance at start

Color: clear
Odor: NO
Sheen/Free Product: NO

Density Measurement Start 1.006 End 1.006

Total volume of purged water removed: ~2.5 gallons

Physical appearance at sampling

Color: clear
Odor: NO
Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: -
Dissolved total iron: -
Dissolved total manganese: -
Dissolved Oxygen: -

SB915-0074-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/1/12	Personnel	EBR	Weather	Rain 45°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-04
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	20.51	ft.
Depth to Water *	5.89	ft.
Length of Water Column	14.62	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1022

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	7.72	13.91	6.10	44.0	-8	1.64	4.91	400	1.024
5	9.68	14.44	6.10	44.6	-4	0.99	7.33	320	1.022
10	10.84	14.56	6.09	44.7	0	0.26	11.07	260	1.022
15	11.68	14.61	6.08	44.7	7	0.39	11.07	270	1.022
20	12.20	14.61	6.08	44.7	13	0.68	15.4	280	1.022
25	12.68	14.60	6.10	44.8	18	0.48	14.8	280	1.022
30	12.70	14.62	6.11	44.8	14	0.76	13.1	280	1.022
35	12.70	14.60	6.11	44.8	14	0.53	9.97	280	1.022

End Purge Time: 1100

Water sample:

Time collected: 1120

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.024 End 1.022

Total volume of purged water removed: 4 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0071-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/2/12	Personnel	TBP	Weather	Rain 40°
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-36I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 64.37 ft.
Depth to Water * 43.00 ft.
Length of Water Column 21.87 ft.

* Measurements taken from

- [x] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 955

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	47.1	10.54	10.17	+100	-128	4.76	10.82	400
5	47.09	10.66	13.0	73.8	-133	4.81	8.42	200
10	48.15	10.48	13.22	63.5	-133	4.87	9.24	200
15	47.05	10.39	13.22	71.1	-136	4.64	9.38	120
20	47.95	10.38	13.20	74.2	-139	4.43	8.89	120
25	47.81	10.36	13.13	81.6	-145	4.05	8.89	120
30	47.81	10.63	13.06	88.2	-151	3.71	7.54	120
35	~~7.54~~ 4.78	11.04	12.99	93.5	-159	3.42	7.31	120
40	4.78	11.29	12.96	94.1	-156	3.29	6.29	120
45	4.78	11.52	12.94	95.6	-170	3.14	5.12	120
50	4.78	11.72	12.92	96.7	-175	3.00	4.49	120
55	4.78	11.92	12.91	98.7	-180	2.83	6.67	120
~~60~~ 60	4.78	12.36	12.91	97.9	-188	2.70	4.21	120
~~65~~ 65	4.78	12.90	12.91	95.1	-197	2.64	6.73	120
~~70~~ 70	4.78	12.63	12.90	94.4	-203	2.56	5.38	120
~~75~~ 75	4.68	12.64	12.90	+100	-208	2.42	4.60	120
80	4.70	12.72	12.90	96.5	-211	2.45	3.11	120
85								
90								

1.050

End Purge Time: 1120

Water sample:
Time collected: 1145

Density Measurement Start 1.050 End 1.054
Total volume of purged water removed: ~4 gallons

Physical appearance at start
Color Clear
Odor No
Sheen/Free Product No

Physical appearance at sampling
Color Clear
Odor No
Sheen/Free Product No

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0072-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/2/12	Personnel	EBR	Weather	Rain 40°
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-36D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	119.10	ft.
Depth to Water *	81.25	ft.
Length of Water Column	37.85	ft.

* Measurements taken from

X	Top of Well Casing
*	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1005

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0		12.10	6.60	11.9	-40	7.72		380	1.010
5	* 83.21	13.91	6.70	8.82	-42	10.33	88	350	1.010
10	83.19	13.93	6.72	8.07	-42	5.79	64.3	360	1.008
15	83.19	14.22	6.70	7.62	-42	5.34	53.3	380	1.008
20	83.14	14.43	6.69	7.18	-43	5.01	34.7	380	1.006
25	83.19	14.82	6.68	6.78	-45	4.53	27.3	360	1.006
30	83.18	15.07	6.69	6.56	-46	4.18	23.9	360	1.006
35	83.18	15.20	6.73	6.30	-48	3.86	16.4	380	1.006
40	83.18	15.40	6.67	6.12	-47	3.51	10.6	380	1.005
45	83.18	15.64	6.64	5.97	-50	3.19	21.8	340	1.004
50	83.18	15.26	6.70	5.84	-50	2.95	23.3	380	1.003
55	83.18	15.71	6.71	5.71	-51	2.72	23.6	380	1.003
60	83.18	15.24	6.68	5.61	-49	2.62	19.7	380	1.004

End Purge Time: 1113

Water sample:
Time collected: 1130

Density Measurement Start 1.010 End 1.004

Total volume of purged water removed: ~8 gallons

Physical appearance at start
Color: Black
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: ~~None~~ Slight Sulfur.
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0072-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11-16-12	Personnel	JWB	Weather	
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-405
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information:

Depth of Well *	48.11	ft.	* Measurements taken from
Depth to Water *	47.91	ft.	X Top of Well Casing
Length of Water Column	0.20	ft.	Top of Protective Casing
			(Other, Specify)

X Not sampled, not enough water

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/20/12	Personnel	JWB	Weather	~35°F Sun/Clouds
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-42S
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information:

Depth of Well * 41.79 ft.
Depth to Water * 41.45 ft.
Length of Water Column 0.34 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Not enough water to sample

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:
Time collected: _____
Physical appearance at start
Color _____
Odor _____
Sheen/Free Product _____

Density Measurement Start _____ End _____
Total volume of purged water removed: _____
Physical appearance at sampling
Color _____
Odor _____
Sheen/Free Product _____

Field Test Results:
Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/20/12	Personnel	TBP	Weather	35°F Sunny Cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-42I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	70.08	ft.
Depth to Water *	52.20	ft.
Length of Water Column	17.88	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: ~~1115~~ 1015

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	54.82	10.64	12.77	>100	-108	0.00	46.9	80	1.054
5	55.26	10.62	12.85	>100	-172	0.00	12.0	100	
10	55.62	10.83	12.86	>100	-177	0.00	12.20	100	
15	56.04	10.71	12.87	>100	-163	0.00	11.09	120	
~~20~~ 20	56.44	11.01	12.87	>100	-147	0.00	14.6	120	
25	57.05	11.42	12.88	>100	-139	0.00	9.90	120	
30	57.55	11.63	12.87	>100	-112	0.00	9.60	100	
35		11.77	12.87	>100	-108	0.00	9.13	100	
40	58.05	12.28	12.85	>100	-104	0.00	9.42	100	
45	58.00	12.43	12.84	>100	-99	0.00	8.17	100	
50	58.51	12.39	12.85	>100	-99	0.00	8.76	100	
55	58.75	12.49	12.84	>100	-100	0.00	7.59	100	
60									

End Purge Time: ~~1210~~ 1110

Water sample:
Time collected: 1130

Density Measurement Start 1.054 End 1.050

Total volume of purged water removed: ~3 gallons

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: No
Sheen/Free Product: No

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0084-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/20/12	Personnel	JWB	Weather	~35°F Sun/clouds
Site Name	SB915 Closure	Evacuation Method	Groundfos Pump	Well #	SB915-MW-42D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	133.40	ft.
Depth to Water *	68.88	ft.
Length of Water Column	64.52	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: ~~1015~~ 1015

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	68.95	12.86	5.62	87.4	-40	0.81	305	480	1.042
5	69.00	11.38	6.14	>100.0	-57	0.26	692	480	
10	68.98	11.62	6.32	>100.0	-66	0.16	917	480	
15	68.95	12.56	6.46	>100.0	-71	0.05	219	480	
20	68.95	12.67	6.47	>100.0	-73	0.02	131	480	
25	68.98	12.79	6.50	>100.0	-74	0.00	118	480	
30	68.98	12.84	6.53	>100.0	-75	0.00	109	480	
35	68.98	12.84	6.54	>100.0	-76	0.00	95.8	480	
40	68.98	12.92	6.55	>100.0	-76	0.00	73.5	480	
45	68.98	12.97	6.54	>100.0	-76	0.00	59.8	480	
50	68.98	12.85	6.55	>100.0	-76	0.00	58.6	480	
55	68.98	12.74	6.55	>100.0	-76	0.00	57.9	480	1.054

End Purge Time: ~~1210~~ 1110

Water sample:

Time collected: 1118

Physical appearance at start

Color: clear

Odor: no

Sheen/Free Product: no

Density Measurement Start 1.042 End 1.054

Total volume of purged water removed: ~7 gallons

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0084-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11.16.12	Personnel	JWB	Weather	
Site Name	SB915 Closure	Evacuation Method	N/A	Well #	SB915-MW-43S
Site Location	Camillus, NY	Sampling Method	N/A	Project #	48127

Well information:

Depth of Well * 46.92 ft.
Depth to Water * 46.82 ft.
Length of Water Column 0.10 ft.

X Not Sampled, not enough water

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____
Odor _____
Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____
Odor _____
Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date 11-20-12 | Personnel JWB | Weather ~40°F Sun/clouds

Site Name SB915 Closure | Evacuation Method NA | Well # SB915-MW-50S

Site Location Camillus, NY | Sampling Method NA | Project # 48127

Well information:

Depth of Well * 36.06 ft.

Depth to Water * Dry ft.

Length of Water Column 0.0 ft.

X Not sampled, Dry

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date: 11-20-12 | Personnel: JWR | Weather: ~40° F Sun/clouds

Site Name: SB915 Closure | Evacuation Method: NA | Well #: SB915-MW-51S

Site Location: Camillus, NY | Sampling Method: NA | Project #: 48127

Well information:

Depth of Well * @ 35.21 ft.

Depth to Water * Dry ft.

Length of Water Column 0.0 ft.

X Not Sampled, Dry

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11.19.12	Personnel	JWB	Weather	~40°F Sunny
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-53S
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information:

Depth of Well * 35.01 ft.
Depth to Water * Dry ft.
Length of Water Column NA ft.
* Not Sampled Dry

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:
Time collected: _____
Physical appearance at start
Color _____
Odor _____
Sheen/Free Product _____

Density Measurement Start _____ End _____
Total volume of purged water removed: _____
Physical appearance at sampling
Color _____
Odor _____
Sheen/Free Product _____

Field Test Results:
Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. **Low Flow Ground Water Sampling Log**

Date	11/19/12	Personnel	JWR	Weather	~41°F Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-S2I
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	48127

Well information:

Depth of Well * 73.18 ft.
Depth to Water * 51.36 ft.
Length of Water Column 21.82 ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1105

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	53.90	13.33	12.01	11.8	-147	0.00	—	150	1.074
5	54.40	13.49	12.93	5.52	-222	0.00	128	150	
10	54.81	13.79	13.13	8.52	-248	0.00	66.3	140	
15	55.08	14.03	13.26	15.5	-255	0.00	46.2	140	
20	55.39	14.18	13.25	18.2	-255	0.00	42.6	140	
25	55.62	14.20	13.29	18.3	-251	0.00	30.7	140	
30	55.92	14.24	13.36	11.7	-248	0.00	27.8	140	
35	56.10	14.49	13.26	7.49	-248	0.00	24.7	140	
45	56.10	14.92	13.27	4.32	-259	0.00	19.2	140	
50	56.35	14.97	13.28	4.65	-249	0.00	(B) ~~32.4~~ 26.5	140	
55	56.45	14.99	13.28	* 11.12	-250	0.00	15.7	140	
60	56.69	15.07	13.30	* 7.45	-253	0.00	15.1	140	
65	56.74	15.10	13.32	* 19.0	-257	0.00	15.9	140	
70	56.75	15.24	13.31	* 19.3	-257	0.00	12.3	140	

End Purge Time: 1215

Water sample:
Time collected: 1230

Density Measurement Start 1.074 End 1.072
Total volume of purged water removed: ~2.0 gallons

Physical appearance at start
Color Clear
Odor no
Sheen/Free Product no

Physical appearance at sampling
Color Clear
Odor no
Sheen/Free Product no

Field Test Results:
Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

SB915-0083-03

Note: Head cont. dropping. Increased pumping rate to compensate for drop in head
* Conductivity bouncing b/w 4.8 & 11.5 ms/cm meter malfunction
Last time >100.0 ms/cm

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/19/12	Personnel	CDG	Weather	Sunny
Site Name	SB915 Closure	Evacuation Method	Grund Fos	Well #	SB915-MW-53D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 123.90 ft.
Depth to Water * 68.55 ft.
Length of Water Column 55.35 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1120

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	68.56	11.92	7.12	1.90	-48	0.00	739	380	1.000
5	68.56	12.19	7.13	2.04	-49	0.00	115	380	
10	68.56	12.41	7.14	2.10	-50	0.00	77	380	
15	68.56	12.64	7.15	2.14	-51	0.00	51	380	1.000
20	68.56	12.75	7.15	2.15	-52	0.00	38	380	
25	68.56	12.89	7.16	2.15	-52	0.00	29	380	
30	68.56	12.96	7.16	2.16	-53	0.00	24	380	1.000
35	68.56	13.10	7.17	2.16	-54	0.00	20	380	
40	68.56	13.20	7.17	2.16	-55	0.00	16	380	
45	68.56	13.20	7.18	2.17	-55	0.00	16	380	1.000
50	68.56	13.23	7.17	2.18	-55	0.00	12	380	
55									
60									
65									
70									
75									

End Purge Time: 1215

Water sample:

Time collected: 1225

Physical appearance at start
Color DARK
Odor YES
Sheen/Free Product NO

Density Measurement Start 1.000 End 1.000

Total volume of purged water removed: ~ 8 gallons

Physical appearance at sampling
Color CLEAR
Odor NO
Sheen/Free Product NO

Field Test Results:

Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

SB915-0083-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/14/12	Personnel	TBP	Weather	Clear 40's
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-595
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	21.62	ft.
Depth to Water *	12.53	ft.
Length of Water Column	9.09	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1040

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	12.58	12.06	6.55	25.3	-21	1.24	36.5	400
5	12.58	12.08	6.81	25.6	-40	0.00	78.2	400
10	12.58	11.95	6.85	25.6	-44	0.00	57.1	400
15	~~12.56~~ 12.58	11.96	6.88	25.6	-48	0.00	28.2	400
20	12.58	12.07	6.89	25.5	-50	0.00	37.6	400
25	12.58	12.18	6.90	25.5	-52	0.00	8.60	400
30	12.58	12.15	6.91	25.6	-53	0.00	4.52	400
35	12.58	12.14	6.91	25.6	-54	0.00	2.78	400
40	12.58	12.21	6.92	25.6	-55	0.00	1.52	400
45	12.58	12.25	6.92	25.6	-57	0.00	1.24	400
50								

1.012

End Purge Time: 1125

Water sample:

Time collected: 1140

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.012 End 1.010

Total volume of purged water removed:

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: ~

Dissolved total iron: ~

Dissolved total manganese: ~

Dissolved Oxygen: ~

SB915-0080-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11-14-12	Personnel	TBP	Weather	~40° F Sun
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-60S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	21.86	ft.
Depth to Water *	12.35	ft.
Length of Water Column	9.51	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 930

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	13.20*	13.48	6.02	15.9	11	1.87	20	400
5	13.23	13.36	6.27	14.9	-14	0.00	12.2	300
10	13.20	13.27	6.34	14.4	-26	0.00	7.46	300
15	13.18	13.25	6.37	14.2	-28	0.00	6.53	300
20	13.1	13.14	6.38	14.0	-30	0.00	5.32	300
25	13.1	12.97	6.51	13.8	-27	0.00	~~5.32~~ 4.93	300
30	13.1	13.08	6.50	13.8	-31	0.00	4.33	300
~~35~~	~~Fixed~~	~~Tubing~~	~~come off the~~	~~flo~~	~~x tubing~~			
~~40~~ 35	13.1	13.16	6.50	13.9	-34	0.00	4.28	300
~~40~~								
~~45~~								

1.004

End Purge Time:

Water sample:

Time collected: 1020

Physical appearance at start

Color: Clear

Odor: Sulphur

Sheen/Free Product: No

Density Measurement Start 1.004 End 1.002

Total volume of purged water removed:

Physical appearance at sampling

Color:

Odor:

Sheen/Free Product:

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0080-01

* DTW taken From Top of Protective casing

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/13/12	Personnel	EBR	Weather	Overcast 40°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-70S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 26.70 ft.
Depth to Water * 18.01 ft.
Length of Water Column 8.69 ft.

* Measurements taken from

X	Top of Well Casing
✱	Top of Protective Casing
✱	(Other, Specify) Top of meter.

Start Purge Time: 10:38

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	17.99	11.06	5.70	20.5	148	1.19	71.0	300	1.010
5	* 18.51	11.09	6.19	20.7	72	1.45	156	320	1.010
10	18.52	11.10	6.33	20.7	43	0.65	157	300	1.008
15	18.52	11.08	6.41	20.8	26	0.51	58.6	300	1.009
20	18.52	11.04	6.47	20.7	16	0.63	33.6	310	1.008
25	18.52	11.07	6.51	20.7	4	0.00	19.8	300	1.008
30	18.52	11.09	6.55	20.7	3	0.00	17.1	300	1.008
35	18.52	11.12	6.58	20.7	-2	0.00	12.8	300	1.008
40	18.52	11.16	6.61	20.7	-6	0.00	9.53	300	1.008

End Purge Time: 1120

Water sample:
Time collected: 1135

Physical appearance at start
Color Clear
Odor None
Sheen/Free Product None

Density Measurement Start 1.010 End 1.008
Total volume of purged water removed: 3.5 gals.

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:
Dissolved ferrous iron: NA
Dissolved total iron: NA
Dissolved total manganese: NA
Dissolved Oxygen: NA

SB915-0079-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/13/12	Personnel	CDG	Weather	Overcast 40°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-70D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	62.22	ft.
Depth to Water *	18.95	ft.
Length of Water Column	43.27	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1030

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	18.95	12.33	5.06	<100.0	151	0.00	85	360	1.046
5	18.95	12.83	5.71	<100.0	80	0.00	46.7	340	
10	18.95	12.79	5.95	<100.0	50	0.00	35.9	340	
15	18.95	12.78	6.10	<100.0	31	0.00	20.5	320	
20	18.96	12.82	6.18	<100.0	18	0.00	17.2	320	
25	18.95	12.81	6.25	<100.0	9	0.00	12.22	320	1.046
30	18.95	12.80	6.28	<100.0	3	0.00	10.77	320	
35	18.95	12.80	6.31	<100.0	-1	0.00	9.71	320	
40	18.95	12.83	6.34	<100.0	-5	0.00	7.56	320	1.044
45									
50									
55									
60									
65									

End Purge Time: 11:15

Water sample:

Time collected: 1130

Physical appearance at start

Color: clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.046 End 1.044

Total volume of purged water removed: ~ 5 gallons

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0079-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date: 11/12/12 | Personnel: EBR | Weather: Overcast 65°
Site Name: SB915 Closure | Evacuation Method: Peristaltic | Well #: SB915-MW-85D
Site Location: Camillus, NY | Sampling Method: Low Flow | Project #: 48127

Well information:

Depth of Well * 74.75 ft.
Depth to Water * 13.57 ft.
Length of Water Column 61.18 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1057

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	13.57	15.43	6.89	>100.0	-22	2.20	40.0	380	1.060
5	13.58	14.72	6.93	>100	-38	1.44	30.2	400	1.061
10	13.58	14.61	6.96	>100	-47	0.00	31.6	400	1.060
15	13.58	14.78	6.97	>100	-52	0.00	34.2	400	1.060
20	13.58	14.72	6.98	>100	-55	0.00	24.2	400	1.060
25	13.58	14.54	6.99	>100	-57	0.00	21.2	400	1.062
30	13.58	14.54	7.00	>100	-59	0.00	26.3	400	1.062
35	13.58	14.48	7.00	>100	-60	0.00	12.6	400	1.062
40	13.58	14.46	7.00	>100	-61	0.00	17.1	400	1.061
45	13.58	14.46	7.00	>100	-62	0.00	18.4	400	1.061

End Purge Time: 1147

Water sample:
Time collected: 1210

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.060 End 1.061
Total volume of purged water removed: 6 gals.

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron: NA
Dissolved total iron: NA
Dissolved total manganese: NA
Dissolved Oxygen: NA

SB915-0078-02
03 MS
04 MSD

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11-1-12 / 11-2-12	Personnel	TBP	Weather	
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-1045
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	25.97	ft.
Depth to Water *	12.89	ft.
Length of Water Column	13.08	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1345

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	13.05	12.77	6.20	x10 ~~[illegible]~~	93	1.58	13.1	300	1.070
5	14.90	13.21	5.96	+100	99	.77	9.39	280	
10	15.61	13.09	5.92	+100	98	.35	7.43	100	
15	16.23	12.92	5.92	+100	97	.37	8.05	100	
20	16.61	12.92	5.92	+100	95	.34	8.20	100	
25	16.72	12.79	5.93	+100	92	.36	12.12	100	
30	16.81	12.74	5.94	+100	86	.51	17.1	100	
	— Purged well Dry								
11/2/12	1200 DTW: 10.9 ft bTOC								
	Sampling using peristaltic pump								

End Purge Time: _____

Water sample:

Time collected: 1220 (11-2-12)

Physical appearance at start

Color: clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.070 End 1.070

Total volume of purged water removed: ~6 gallons

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date: 11/1/12 | Personnel: EBR | Weather: Rain 45°
Site Name: SB915 Closure | Evacuation Method: Grundfos | Well #: SB916-MW-104I
Site Location: Camillus, NY | Sampling Method: Low Flow | Project #: 48127

Well information:

Depth of Well * 75.23 ft.
Depth to Water * 29.20 ft.
Length of Water Column 46.03 ft.

* Measurements taken from
- X — Top of Well Casing
- Top of Protective Casing
- (Other, Specify)

Start Purge Time: 1344

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SG.
	Purged 5 gallons of turbid water.								
0	29.20	11.48	7.75	1.23	80	0.00	88	320	1.005
5	29.20	11.87	7.63	1.24	64	0.00	73.2	300	1.004
10	29.20	12.14	7.55	1.24	59	0.00	63.8	300	1.004
15	29.20	12.46	7.51	1.25	56	0.00	52.8	300	1.004
20	29.20	12.60	7.49	1.25	56	0.00	45.4	300	1.004
25	29.20	12.57	7.48	1.25	57	0.00	34.2	240	1.004
30	29.20	12.56	7.47	1.25	53	0.00	28.9	240	1.004
35	29.20	12.62	7.47	1.25	51	0.00	25.6	240	1.004
40	29.20	12.63	7.46	1.25	44	0.00	23.8	240	1.004

End Purge Time: 1440

Water sample:
Time collected: 1450

Physical appearance at start
Color: Light Brown
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.005 End 1.004
Total volume of purged water removed: 8 gals.

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0071-07

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11.6.12	Personnel	TBF	Weather	
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-105BR
Site Location	Camillus, NY	Sampling Method	Lowflow	Project #	48127

Well information:

Depth of Well *	65.00	ft.
Depth to Water *	61.76	ft.
Length of Water Column	3.24	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1410

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	62.30	10.66	10.71	.789	36	4.5	606	200	1.002
5	61.80	11.03	10.02	.795	21	2.96	491	200	
	lost Flow	Resumed	Pumping			14.36			
0									
	61.90	19.40	8.67	.875	-15	1.34	611		
	Pump will	Not	Maintain	Flow	w water	@	61.80		
11.7.12	SEE Page	2 of 2							

End Purge Time:

Water sample:

Time collected: 1325 (11-7-12)

Physical appearance at start

Color: Clear

Odor: No

Sheen/Free Product: NO

Density Measurement Start ____ End 1.002

Total volume of purged water removed:

Physical appearance at sampling

Color: V. light Brown

Odor: No

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0075-05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11-7-12	Personnel	TRP	Weather	
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-105BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	64.90	ft.	* Measurements taken from
Depth to Water *	61.88	ft.	X Top of Well Casing
Length of Water Column	3.02	ft.	Top of Protective Casing
			(Other, Specify)

1x well volume = 0.50 gallons

Start Purge Time: 955

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	61.79	9.70	5.59	.774	239	4.48	1316	440	1.00
5	62.45	11.23	6.65	.844	52	2.17	787	600	
10	62.15	12.58	6.82	.928	12	.86	158	100	
~~15~~ 20	62.0	11.72	6.91	.939	-1	.43	95.1	140	
~~20~~ 30	62.1	11.71	6.91	.968	-18	1.99	137	150	
~~25~~ ~~30~~									
~~30~~									

End Purge Time: 1025

SB915-0075-05

Water sample:

Time collected: 1325 (11-7-12)

Physical appearance at start

Color: Clear

Odor: no

Sheen/Free Product: no

Density Measurement Start 1.000 End 1.000

Total volume of purged water removed: Total 3 gallons

Physical appearance at sampling

Color: v. light brown

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

- Removed ~6 well volumes, could not stabilize flow due to short water column
- sampled using a PVC bailer

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	10/31/12	Personnel	EBR	Weather	Cloudy 47°
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-106S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	19.98	ft.
Depth to Water *	3.21	ft.
Length of Water Column	16.77	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1305

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	4.63	14.53	7.60	1.57	151	3.00	23.1	280	1.005
5	4.69	14.606	7.67	0.944	139	2.79	11.15	280	1.006
10	4.70	15.08	7.57	1.00	137	2.34	6.31	280	1.006
15	4.71	15.46	7.64	0.841	135	1.75	2.89	260	1.005
20	4.72	15.61	7.62	0.775	136	1.36	1.82	260	1.005
25	4.72	15.62	7.60	0.750	136	1.22	1.29	260	1.004
30	4.72	15.67	7.58	0.735	132	1.11	1.19	260	1.004
35	4.72	15.63	7.59	0.702	130	0.96	1.14	260	1.005

End Purge Time: 1340

Water sample:

Time collected: 1411

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.005 End 1.005

Total volume of purged water removed: 3.5 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0070-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date: 10/31/12 | Personnel: TRP | Weather: Cloudy 47°
Site Name: SB915 Closure | Evacuation Method: ~~Geotfos~~ Peristaltic | Well #: SB915-MW-106I
Site Location: Camillus, NY | Sampling Method: Low Flow | Project #: 48127

Well information:

Depth of Well * 44.82 ft.
Depth to Water * 9.80 ft.
Length of Water Column 35.02 ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1320

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	10.85	14.34	7.43	6.13	-40	.21	2597 AV	220	1.004
5	10.84	14.16	7.38	9.00	-56	.04	3913 AV	220	
10	10.79	14.14	7.26	16.9	-59	.01	3582 AV	220	
15	10.78	14.29	7.27	18.7	-56	.00	2553 AV	220	
20	10.77	14.22	7.28	19.5	-59	.00	1841 AV	220	1.010
25	10.77	14.36	7.25	21.7	-59	.00	1351 AV	220	
30	10.76	14.46	7.23	23.4	-60	.00	920 AV	220	
35	10.77	14.46	7.21	25.1	-59	.00	610 AV	220	*
40	10.78	14.50	7.20	26.3	-59	.00	90.2 NTU	220	
45	10.78	14.45	7.19	27.2	-59	.00	56.5 NTU	220	
50	10.77	14.48	7.18	28.0	-58	.00	40.5 NTU	220	
55	10.77	14.46	7.17	28.9	-57	.01	29.9 NTU	220	1.012
60	10.78	14.43	7.17	28.9	-55	.02	21.5 NTU	220	
65	10.78	14.40	7.16	30.0	-54	.02	15.1	220	
70	10.78	14.32	7.16	30.3	-54	.03	12.2	220	
	10.76	14.34	7.15	31.6	-54	.03	14.13	220	

End Purge Time: 1430

Water sample:

Time collected: 1445

Physical appearance at start
Color: Cloudy
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.004 End 1.016

Total volume of purged water removed: ~6 gallons

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

* Lamotte was Not working Properly

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/5/12	Personnel	TBP CDG	Weather	~35°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-107S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	22.47	ft.
Depth to Water *	3.56	ft.
Length of Water Column	18.79	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1205

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	5.33	12.62	6.20	71.0	61	.66	29.8	400	1.030
5	5.41	12.49	6.22	70.0	56	.07	29.4	100	1.026
10	5.22	12.55	6.25	69.2	51	.09	24.8	200	1.026
15	6.52	12.70	6.27	68.8	54	.82	17.3	200	
20	6.53	12.57	6.30	69.0	68	1.16	10.4	180	
25	6.53	12.72	6.30	69.4	70	.99	8.11	200	
30	6.57	12.59	6.28	70.6	70	.68	6.29	200	
35	6.59	12.76	6.26	71.5	70	.44	4.17	200	1.030
40	6.61	12.56	6.26	72.0	67	.25	7.08	200	
45	6.61	12.62	6.24	72.3	66	.15	7.40	200	
50	6.61	12.70	6.24	72.4	65	.12	7.85	200	
55	6.63	12.67	6.24	72.7	65	0.06	5.46	200	
60	6.65	12.49	6.24	73.3	64	0.04	4.86	160	1.032
65									

End Purge Time: 1307

Water sample:

Time collected: 1330

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.030 End 1.032

Total volume of purged water removed: ~5 gallons

Physical appearance at sampling

Color: Clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0073-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11.5.12	Personnel	TBP	Weather	~35° F Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-107I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	57.16	ft.
Depth to Water *	8.20	ft.
Length of Water Column	48.96	ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1033

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.28	12.11	6.12	13.1	41	3.61	40.8	600	1.010
5	8.28	12.13	6.39	13.2	30	.56	27.4	500	
10	8.28	12.07	6.41	13.0	26.0	.14	13.5	500	
15	8.28	12.04	6.42	12.9	24	.09	9.99	500	1.006
20	8.28	12.04	6.42	12.9	22	.05	5.45	500	
25	8.28	12.01	6.43	12.8	21	.01	5.90	500	
30	8.28	11.96	6.43	12.8	20	.00	5.81	500	
35	8.28	11.97	6.43	12.8	19	.00	4.52	500	1.004
40	8.28	11.94	6.43	12.8	18	.00	4.25	500	

End Purge Time: 1113

Water sample:

Time collected: 1125

Density Measurement Start 1.010 End 1.004

Total volume of purged water removed: ~8 gallons

Physical appearance at start

- Color: Clear
- Odor: NO
- Sheen/Free Product: NO

Physical appearance at sampling

- Color: Clear
- Odor: NO
- Sheen/Free Product: NO

Field Test Results:

- Dissolved ferrous iron:
- Dissolved total iron:
- Dissolved total manganese:
- Dissolved Oxygen:

SB915-0073-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/5/12	Personnel	EBR	Weather	Cloudy 36°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-107D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	107.95	ft.
Depth to Water *	9.88	ft.
Length of Water Column	98.07	ft.

* Measurements taken from

X	Top of Well Casing
*	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1034

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	* 10.45	12.49	7.45	>100	151	0.00	9.17	400	1.076
5	10.46	13.25	6.66	>100	89	0.00	4.74	400	1.082
10	10.45	13.31	6.43	>100	67	0.00	2.72	400	1.080
15	10.45	13.27	6.32	>100	57	0.00	1.25	400	1.082
20	10.45	13.27	6.26	>100	51	0.00	1.19	400	1.082
25	10.46	13.23	6.23	>100	47	0.00	0.79	400	1.082
30	10.46	13.26	6.21	>100	45	0.00	0.96	400	1.082
35	10.46	13.28	6.19	>100	42	0.00	1.06	400	1.082
40	10.46	13.25	6.19	>100	41	0.00	1.35	400	1.082

End Purge Time: ~~10:35~~ 1116

Water sample:

Time collected: 1135

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.076 End 1.082

Total volume of purged water removed: 5 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0073-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/5/12	Personnel	JWB	Weather	~35° F Cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-107BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	133.55	ft.
Depth to Water *	19.70	ft.
Length of Water Column	114.85	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: ~~1105~~

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	18.54	11.13	5.29	>100.0	194	1.35	-	160	1.130
5	19.15	10.87	5.40	>100.0	175	1.05	-	120	
* 20	46.90	12.13	5.54	>100.0	138	0.41	32.1	160	
25	46.92	11.95	5.55	>100.0	136	0.39	34.0	160	1.132 ~~1.132~~
30	46.95	11.87	5.56	>100.0	133	0.39	39.5	160	
35	47.01	11.73	5.91	>100.0	106	0.37	59.8	160	
40	47.02	11.79	5.97	>100.0	99	0.37	62.0	160	
45	47.05	11.79	6.08	>100.0	89	0.36	80.3	160	
50	47.05	11.70	6.19	>100.0	78	0.30	101.2	160	
55	47.05	11.69	6.23	>100.0	72	0.31	103.5	160	
60	47.02	11.53	6.30	>100.0	64	0.34	87.1	160	
65	47.00	11.60	6.32	>100.0	62	0.24	71.2	160	
70	46.94	11.53	6.35	>100.0	58	0.22	61.2	140	
75	47.00	11.72	6.38	>100.0	53	0.16	37.0	140	
80	47.03	11.71	6.39	>100.0	50	0.13	30.3	180	
85	47.10	11.68	6.40	>100.0	46	0.07	23.6	120	
90	47.10	11.53	6.41	>100.0	46	0.07	20.4	120	
95	47.10	11.51	6.44	>100.0	44	0.07	19.3	120	1.134

End Purge Time: 1240

Water sample:

Time collected: 1250

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.130 End 1.134

Total volume of purged water removed: ~8 gallons

Physical appearance at sampling

Color: Clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: -

Dissolved total iron: -

Dissolved total manganese: -

Dissolved Oxygen: -

* Purging water to drop DTW to try and stabilize at a lower depth

SB915-0073-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/6/12	Personnel	JWB	Weather	~30°F Sun
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-1085
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information:

Depth of Well * 26.95 ft.
Depth to Water * Dry ft.
Length of Water Column 0.0 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

* Not Sampled, Well Dry

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:
Time collected: _____
Physical appearance at start
Color _____
Odor _____
Sheen/Free Product _____

Density Measurement Start _____ End _____
Total volume of purged water removed: _____
Physical appearance at sampling
Color _____
Odor _____
Sheen/Free Product _____

Field Test Results:
Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/16/12	Personnel	TBP	Weather	30's Sunny
Site Name	SB915 Closure	Evacuation Method	GrundFos	Well #	SB915-MW-108D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 64.85 ft.
Depth to Water * 29.81 ft.
Length of Water Column 35.04 ft.

* Measurements taken from
- ☐ Top of Well Casing
- ☐ Top of Protective Casing
- ☐ (Other, Specify)

Start Purge Time: 1045

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	29.89	11.31	6.17	.834	50	5.16	1920	600	1.002
5	29.86	11.32	6.70	.799	3	2.72	1290	300	
10	29.86	11.64	6.70	.779	0	2.29	881	300	
15	29.86	12.05	6.73	.804	-5	1.72	142	300	
20	29.86	12.25	6.83	.811	-11	1.15	97.9	300	
25	29.86	12.35	6.91	.814	-22	.73	60.2	300	
30	29.86	12.48	6.95	.815	-25	.55	35.7	300	
35	29.86	12.61	6.98	.817	-29	.36	22.6	300	
40									
45	29.86	12.56	7.00	.826	-32	.22	21.0	300	
50	29.86	12.68	7.02	.830	-34	.16	16.1	300	
55	29.86	12.73	7.05	.838	-37	.07	11.2	300	
60	29.86	12.78	7.06	.841	-39	.03	11.84	300	
65	29.86	12.77	7.09	.843	-41	.00	10.10	300	
70	29.86	12.71	7.11	.846	-42	.00	11.57	300	
75	29.86	12.77	7.12	.848	-44	.00	8.53	300	
80	29.86	12.90	7.13	.850	-45	.00	7.23	300	
85									
90									
95									
100									
105									
110									

End Purge Time: 1205

Water sample:

Time collected: 1207

Physical appearance at start
- Color: Cloudy
- Odor: None
- Sheen/Free Product: None

Density Measurement Start 1.002 End 1.000

Total volume of purged water removed: 7901

Physical appearance at sampling
- Color: Clear
- Odor: None
- Sheen/Free Product: None

Field Test Results:
- Dissolved ferrous iron: —
- Dissolved total iron: —
- Dissolved total manganese: —
- Dissolved Oxygen: —

SB915-0082-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/16/12	Personnel	EBR	Weather	Sunny 40°
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-108BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well * 94.76 ft.
Depth to Water * 22.81 ft.
Length of Water Column 71.95 ft.

* Measurements taken from
- X — Top of Well Casing
- ✱ — Top of Protective Casing
- ✱ — (Other, Specify) Top of meter

Start Purge Time: 1043

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	* 24.94	11.40	7.22	2.89	-44	4.45	>1000		
1055 5	27.31	11.52	7.26	2.93	-52	0.00	504	320	1.005
10	27.31	11.61	7.22	2.93	-56	0.00	315	320	1.004
15	27.32	11.60	7.20	2.93	-55	0.00	121	320	1.004
20	27.32	11.67	7.19	2.94	-55	0.00	70.8	300	1.004
25	27.32	11.82	7.18	2.94	-56	0.00	49.0	300	1.002
30	27.32	11.81	7.17	2.94	-56	0.00	30.1	300	1.002
35	27.32	11.93	7.17	2.94	-57	0.00	27.7	300	1.002
40	27.35	11.93	7.17	2.94	-57	0.00	19.6	300	1.002
45	27.36	12.08	7.17	2.94	-57	0.00	19.0	300	1.002
50	27.36	12.10	7.18	2.94	-58	0.00	16.7	300	1.002

End Purge Time: 1142

Water sample:
Time collected: 1157

Density Measurement Start 1.005 End 1.002
Total volume of purged water removed: 5.5 gals.

Physical appearance at start
Color: Brown
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron: NA
Dissolved total iron: NA
Dissolved total manganese: NA
Dissolved Oxygen: NA

* Pumped 1.5 gals, brown water into bucket.

SB915-0082-03
SB915-0082-04 (FD)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/15/12	Personnel	CDG	Weather	28°F cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-1095
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well *	15.41	ft.
Depth to Water *	4.23	ft.
Length of Water Column	11.18	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 955

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	4.23	15.40	12.51	51.8	-127	0.00	13.7	400
5	4.23	15.81	13.28	51.2	-176	0.00	4.83	400
10	4.24	15.87	13.45	51.1	-194	0.00	5.71	380
15	4.27	15.86	13.49	51.0	-202	0.00	4.56	380
20	4.27	15.84	13.52	51.0	-209	0.00	2.91	380
25	4.27	15.91	13.53	51.0	-213	0.00	3.24	380
30	4.27	15.92	13.54	50.9	-218	0.00	2.24	380
35	4.27	15.91	13.55	50.8	-221	0.00	1.66	380
40	4.28	15.97	13.56	50.7	-223	0.00	1.69	380
45	4.28	15.97	13.56	50.7	-226	0.00	1.45	380
50	4.28	15.93	13.57	50.7	-227	0.00	1.50	380
55								
60								
65								

End Purge Time: 1045

Water sample:

Time collected: 1110

Physical appearance at start

Color: clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1,020 End 1,022

Total volume of purged water removed: ~ 7 gal

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0081-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/15/12	Personnel	TBP	Weather	30's Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-mw-109I
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	54.42	ft.
Depth to Water *	17.00	ft.
Length of Water Column	37.42	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1000

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	18.72	11.78	5.56	42.2	24	3.90	699	240	1.022
5	20.1	11.46	7.49	47.3	-163	.24	40.9	180	
10	19.89	11.30	7.74	47.0	-180	.06	41.5	140	
15	19.71	11.06	7.82	47.1	-190	.00	46.7	140	
20	19.58	11.04	7.83	46.8	-190	.03	50.1	140	
25	19.46	11.05	7.80	46.1	-186	.00	39.9	140	
30	19.48	11.02	7.74	45.2	-141	.00	35.8	140	
35	19.59	11.19	7.69	44.3	-190	.00	32.6	140	
40	19.65	11.17	7.61	43.2	-185	.00	28.5	140	
45	19.68	11.17	7.55	42.5	-181	.00	24.6	140	
50	19.72	11.16	7.49	41.7	-177	.00	20.3	140	
~~60~~ 55	19.76	11.16	7.44	40.7	-174	.00	17.5	140	
~~65~~ 60	19.78	11.18	7.41	40.1	-172	.00	15.4	140	
~~70~~ 65	19.78	11.05	7.38	39.5	-170	.00	12.2	140	
~~75~~ 70	19.78	11.11	7.35	38.9	-167	.00	11.0	140	
80 75	19.78	11.09	7.32	38.8	-164	.00	12.81	140	
~~85~~ 80									

End Purge Time: ~~12~~ 1120

Water sample:

Time collected: 1140

Physical appearance at start

Color: grayish

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.022 End 1.020

Total volume of purged water removed: ~4.5 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0081-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/15/12	Personnel	EBR	Weather	Sunny 40°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-110S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	20.20	ft.
Depth to Water *	4.04	ft.
Length of Water Column	16.16	ft.

* Measurements taken from

X	Top of Well Casing
*	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1042

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	* 4.99	11.99	6.02	4.40	-30	1.34	49.3	300	1.004
5	5.20	12.55	6.29	4.84	-51	0.00	29.6	280	1.004
10	5.20	12.54	6.34	4.88	-53	0.00	14.7	300	1.004
15	5.21	12.60	6.36	4.98	-54	0.00	10.8	300	1.004
20	5.21	12.57	6.37	5.24	-55	0.00	10.4	280	1.004
25	5.21	12.56	6.36	5.42	-54	0.00	8.36	300	1.004
30	5.22	12.61	6.37	5.54	-55	0.00	7.85	300	1.004
35	5.22	12.57	6.38	5.70	-55	0.00	5.10	280	
40	5.22	12.54	6.38	5.74	-56	0.00	4.13	300	
45	5.22	12.66	6.38	5.85	-56	0.00	3.57	280	1.004

End Purge Time: 1132

Water sample:

Time collected: 1150

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.004 End 1.004

Total volume of purged water removed: 4 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:	NA
Dissolved total iron:	NA
Dissolved total manganese:	NA
Dissolved Oxygen:	NA

SB915-0081-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — **Low Flow Ground Water Sampling Log**

Date	11/15/12	Personnel	EBR	Weather	Sunny 40°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-111S
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well information:

Depth of Well *	24.40	ft.
Depth to Water *	8.80	ft.
Length of Water Column	15.60	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1320

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	9.45	12.08	5.82	62.8	-16	0.00	124	280	1.031
5	9.45	11.99	5.86	61.0	-20	0.00	169	260	1.031
10	9.43	11.98	5.91	57.1	-25	0.00	107	260	1.031
15	9.43	11.88	5.96	52.5	-31	0.00	81.9	260	1.028
20	9.40	11.87	6.02	48.1	-36	0.00	67.8	260	1.024
25	9.38	11.79	6.07	44.4	-40	0.00	48.2	260	1.022
30	9.35	11.76	6.11	41.5	-44	0.00	39.2	260	1.020
35	9.33	11.78	6.14	39.3	-47	0.00	32.9	260	1.019
40	9.33	11.78	6.17	37.5	-49	0.00	32.1	260	1.019
45	9.33	11.78	6.20	35.9	-51	0.00	24.3	240	1.019
50	9.33	11.76	6.21	35.0	-53	0.00	21.0	250	1.018
55	9.32	11.68	6.23	34.0	-54	0.00	17.5	260	1.016
60	9.32	11.73	6.24	33.3	-55	0.00	16.8	250	1.015
65	9.32	11.76	6.26	32.2	-56	0.00	16.4	260	1.014

End Purge Time: 1433

Water sample:

Time collected: 1450

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.031 End 1.014

Total volume of purged water removed: 5.5 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0081-05

~~06 MS~~

~~07 MSD~~

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/15/12	Personnel	TBP	Weather	30's Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-111I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	66.10	ft.
Depth to Water *	8.60	ft.
Length of Water Column	57.50	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1425

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.60	11.40	7.49	19.6	65	3.42	29.1	380	1.022
5	8.60	11.61	6.33	93.8	-55	.45	53.9	380	
10	8.60	11.58	6.32	93.0	-54	.23	63.4	380	
15	8.55	11.58	6.28	92.7	-51	.06	28.5	380	
20	8.55	11.61	6.25	92.4	-49	.01	12.4	380	
25	8.55	11.54	6.24	92.4	-49	0.00	9.06	380	
30	8.55	11.50	6.24	92.4	-49	0.00	5.83	380	
35	8.55	11.51	6.23	92.4	-49	0.00	4.52	380	
40	8.55	11.47	6.23	92.6	-49	0.00	4.62	380	
45									
50									

End Purge Time: 1505

Water sample:

Time collected: 1430

Physical appearance at start

Color: Slightly cloudy

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.022 End 1.046

Total volume of purged water removed: 5gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

SB915-0081-06

SB915-0081-07 (MS)

SB915-0081-08 (MSD)

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/15/12	Personnel	CDG	Weather	Visible 36°F
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-1110
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	48127

Well information:

Depth of Well *	99.02	ft.
Depth to Water *	7.16	ft.
Length of Water Column	91.86	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1320

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	7.16	13.24	9.26	<100	-39	0.00	11.12	420	1.070
5	7.22	13.14	8.41	<100	-18	0.00	9.48	420	
10	7.22	13.11	7.95	<100	-13	0.00	7.97	420	
15	7.22	13.09	7.57	<100	-10	0.00	6.03	420	
20	7.22	13.11	7.30	<100	-9	0.00	11.94	420	
25	7.22	13.03	7.11	<100	-8	0.00	17.1	420	
30	7.22	13.02	6.97	<100	-8	0.00	16.7	420	
35	7.22	13.03	6.88	<100	-8	0.00	12.4	400	
40	7.22	12.97	6.81	<100	-8	0.00	16.7	400	
45	7.22	13.01	6.75	<100	-8	0.00	9.75	400	1.070
50	7.22	13.03	6.71	<100	-8	0.00	8.09	400	
55	7.22	12.96	6.67	<100	-8	0.00	5.69	400	
60	7.22	12.93	6.65	<100	-8	0.00	5.32	400	
65	7.22	12.94	6.64	<100	-8	0.00	3.21	400	1.070
70									
75									
80									
85									
90									
95									
100									
105									
110									

End Purge Time: 1425

Water sample:

Time collected: 1440

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.070 End 1.070

Total volume of purged water removed: ~10 gallons

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0081-09

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Page 1 of 2

Date	11/14/12	Personnel	TBP	Weather	~35°F Sun
Site Name	SB915 Closure	Evacuation Method	GrundFos Pump	Well #	SB915-MW-11BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	142.75	ft.
Depth to Water *	12.34	ft.
Length of Water Column	130.41	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1035

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	13.06	12.34	7.90	0.00	-100	4.59	16.8	100	1.120
5	14.55	11.08	4.97	0.00	130	.16	19.3	100	
10	14.95	11.28	9.79	>1000	156	.00	7.16	100	
15	15.3	11.28	5.33	>1000	95	.00	29.9	100	
20	15.70	11.38	5.93	>1000	16	.00	20.1	100	
25	15.9	11.59	6.00	>1000	19	.00	44.5	100	
30	16.30*	11.73	6.05	>1000	-1	.00	178	100	
35	16.54	11.77	6.07	>1000	-2	.00	40.6	100	
40	17.0	11.84	6.05	>1000	2	.00	40.7	100	
45	17.6	11.94	6.04	>1000	4	.00	35.1	100	
50	17.9	11.91	6.11	>1000	5	.00	29.5	100	1.120
55	18.2	11.97	6.16	>1000	-5	.00	29.1	100	
60	19.05	11.72	6.07	>1000	-4	.00	41.0	100	
65	19.1	11.57	6.10	>1000	-26	.00	39.4	100	
70	11.45-11	53							
1200	20.94	11.46	4.73	>100	170	.83	167	100	
5	20.40	11.11	5.30	>100	73	.27	19.9	100	
10	20.35	11.12	5.39	>100	58	.15	21.1	100	
15	20.24	11.01	5.47	>100	43	.12	17.5	100	
20	20.29	10.95	5.54	>100	29	.06	27.1	100	
25	20.34	11.21	5.59	>100	21	.06	21.1	100	
30	20.55	11.22	5.63	>100	11	.04	17.2	100	
35	20.8	11.30	5.66	>100	6	.04	11.7	100	

End Purge Time: 1304

Water sample:

Time collected: 1326

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.120 End 1.120

Total volume of purged water removed:

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen:

SB915-0083-01

* Changed out Horiba Due to ORP rapidly Changing Between +1 and -26 Jumping Around

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/19/12	Personnel	TBP	Weather	~35°F Sunny
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-1/BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	142.75	ft.	* Measurements taken from
Depth to Water *	12.34	ft.	X Top of Well Casing
Length of Water Column	130.41	ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1035

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
40	21.05	11.34	5.69	>100	3	.03	19.2	100	
45	21.25	11.37	5.72	>100	0	.01	16.9	100	
50	21.5	11.43	5.73	>100	-5	.01	16.2	100	
55	22.15	11.53	5.77	>100	-10	.00	17.4	100	1.120
60	22.69	11.46	5.79	>100	-13	.03	15.8	100	
65	22.8	11.38	5.81	>100	-15	.00	12.7	100	
70									

End Purge Time: 1304

Water sample:
Time collected: 1326

Density Measurement Start 1.120 End 1.120
Total volume of purged water removed: ~3 gallons

Physical appearance at start
Color: Clear
Odor: NO
Sheen/Free Product: NO

Physical appearance at sampling
Color: Clear
Odor: NO
Sheen/Free Product: NO

Field Test Results:
Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

SB915-6083-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/7/12	Personnel	CDG	Weather	
Site Name	SB915 Closure	Evacuation Method	Peristatic	Well #	SB 915 - MW - 1125
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 20.06 ft.
Depth to Water * 15.45 ft.
Length of Water Column 4.61 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1220

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	16.2	12.39	6.45	13.1	174	1.34	39.1	480	1.006
5	17.2	12.55	6.72	15.6	92	.13	93.2	380	
10	16.8	12.39	6.84	17.7	86	.18	47.9	280	1.010
15	18.52	11.99	7.41	19.6	82	2.04	77.1	280	
20	18.68	11.94	7.46	19.9	68	1.03	52.1	160	
25	18.56	11.82	7.47	19.9	55	40	33.3	180	1.010
30	18.40	11.86	7.58	19.9	45	.29	16.2	200	
35	18.35	11.87	7.70	20.1	50	.31	14.6	180	
40	18.38	11.85	7.83	20.2	56	.34	10.12	180	1.010
45	18.25	11.82	7.93	20.4	62	.41	11.2	180	
50	18.25	11.88	7.99	20.4	66	.43	5.43	180	
55	18.25	11.97	8.04	20.4	69	.50	4.01	180	1.010
60	18.22	11.84	8.09	20.4	71	.48	5.86	180	
65	18.23	11.84	8.11	20.5	73	.53	2.48	180	1.010
70									
75									

End Purge Time:

Water sample:
Time collected: 1335

Density Measurement Start 1.006 End 1.010
Total volume of purged water removed:

Physical appearance at start
Color: Clear
Odor: NO
Sheen/Free Product: NO

Physical appearance at sampling
Color: Clear
Odor: NO
Sheen/Free Product: NO

Field Test Results:
Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

SB 915 - 0075 - 03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/7/12	Personnel	JTB P	Weather	Clear 40's
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-mw-112I
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well * 58.54 ft.
Depth to Water * 16.67 ft.
Length of Water Column 41.87 ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1225

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	16.84	11.51	6.07	88.8	-98	.27	2558	800	1.040
5	16.78	11.80	6.07	91.2	-86	1.66	2550	400	
10	16.73	11.60	6.06	91.8	-62	2.01	1147	200	
15	16.73	11.63	6.07	91.7	-41	1.40	698	200	
20	16.73	11.76	6.08	92.0	-27	.96	120	200	
25	16.73	11.79	6.09	92.2	-16	.75	97.5	200	1.040
30	16.73	12.20	6.09	92.5	-1	.39	51.4	200	
35	16.73	12.48	6.09	92.8	8	.10	57.5	200	
40	16.73	12.66	6.09	92.9	7	.10	102	200	
45	16.73	12.61	6.09	92.8	9	0.00	129	200	
50	16.73	12.70	6.09	93.0	11	0.00	103.7	200	1.040
55	16.73	12.79	6.09	92.9	13	0.00	94.1	200	
60	16.73	12.73	6.09	93.0	14	0.00	78.9	200	
65	16.73	12.51	6.11	92.9	13	0.00	73.7	200	
70	16.73	12.39	6.11	93.0	13	0.00	75.3	200	1.040
75									
80									

End Purge Time: 1335

Water sample:

Time collected: 1350

Physical appearance at start
Color Clear Slightly cloudy
Odor NO
Sheen/Free Product NO

Density Measurement Start 1.040 End 1.040

Total volume of purged water removed: ~ 6 gal

Physical appearance at sampling
Color Clear
Odor NO
Sheen/Free Product NO

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0075-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/9/12	Personnel	TBP	Weather	
Site Name	SB915 Closure	Evacuation Method	Peristatic	Well #	SB915-MW-113S
Site Location	Camillus, NY	Sampling Method	LowFlow	Project #	48127

Well information:

Depth of Well *	29.40	ft.
Depth to Water *	11.10	ft.
Length of Water Column	18.30	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 955

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	12.45	12.73	11.55	~~11.205~~	-205	1.12	19.8	500	1.006
~~5~~ 3	12.95	12.69	12.16	17.6	-251	.44	74.6	300	
10	13.00	12.55	11.23	28.1	-289	.15	81.4	300	
15	13.04	12.49	11.08	29.6	-330	0.02	74.2	300	
20	13.04	12.41	11.01	30.4	-351	0.00	59.7	300	
25	13.02	12.37	10.95	30.4	-368	0.00	44.4	300	1.014
30	12.92	12.36	10.93	30.4	-379	0.00	32.7	300	
35	13.0	12.33	10.91	30.8	-389	0.00	26.5	300	
40	13.03	12.28	10.96	30.4	-396	0.00	23.0	300	
45	13.02	12.25	10.74	31.3	-402	0.00	23.9	300	
50	13.02	12.26	10.68	31.2	-413	0.00	19.7	300	
55	13.02	12.24	10.81	30.7	-452	0.00	16.5	300	
60	13.05	12.22	10.79	30.8	-453	0.00	18.3	300	1.014
65	13.08	12.20	10.79	30.9	-453	0.00	17.4	300	1.014
70	13.07	12.20	10.78	30.8	-458	0.00	16.6	300	
75									
80									
85									
90									

End Purge Time: 1106

Water sample:

Time collected: 1119

Physical appearance at start

Color: clear/slightly cloudy

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.006 End 1.014

Total volume of purged water removed: ~6gal

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0077-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/7/12	Personnel	JWB/EBR	Weather	~37° F Sun/clouds
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-114BR
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information:

Depth of Well * 39.40 ft.
Depth to Water * 35.18 ft.
Length of Water Column 4.22 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

* Well does not recover fast enough to sample

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/1/12	Personnel	JWS	Weather	~43°F Rain
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-115BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	90.92	ft.
Depth to Water *	9.04	ft.
Length of Water Column	81.88	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1045

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	9.21	13.11	8.37	23.4	-152	1.86	-	200	1.016
5	9.21	12.59	7.70	36.6	-131	0.31	72.0	200	
10	9.21	12.44	7.11	39.6	-84	0.10	26.2	200	
20	9.21	12.23	7.01	39.9	-69	0.01	28.7	200	
25	9.21	12.15	6.99	39.9	-61	0.00	36.8	200	
30	9.21	12.09	6.98	39.9	-59	0.00	42.4	200	
35	9.23	12.08	6.96	39.9	-54	0.00	56.8	200	
40	9.25	12.02	6.98	40.0	-40	0.00	65.8	200	
45	9.25	11.94	6.97	40.1	-42	0.00	53.2	200	
50	9.25	11.87	6.96	40.4	-39	0.00	32.2	200	
55	9.25	11.84	6.94	40.9	-37	0.00	20.0	200	
60	9.25	11.85	6.92	42.8	-36	0.00	16.7	200	
65	9.25	11.80	6.91	46.3	-35	0.00	15.3	200	
70	9.25	11.80	6.91	49.3	-35	0.00	11.4	200	
75	9.25	11.81	6.91	52.2	-35	0.00	9.99	200	
80	9.25	11.79	6.93	54.2	-35	0.00	6.85	200	
85	9.25	11.77	6.94	56.0	-34	0.00	6.17	200	
90	9.25	11.76	6.95	56.7	-34	0.00	5.65	200	
93	9.25	11.72	6.95	57.2	-34	0.00	4.41	200	1.024
96	9.25	11.66	6.96	57.8	-34	0.00	3.98	200	
99	9.25	11.68	6.96	57.9	-34	0.00	3.57	200	

End Purge Time: 1224

Water sample:

Time collected: 1310

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.016 End 1.024

Total volume of purged water removed: ~5 gallons

Physical appearance at sampling

Color: Clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron: -

Dissolved total iron: -

Dissolved total manganese: -

Dissolved Oxygen: -

SB915-0071-05

SB915-0071-06 (FD)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date: 11/[illegible]/12 | Personnel: TBP | Weather: Cloudy Rain
Site Name: SB915 Closure | Evacuation Method: Peristaltic | Well #: SB915-MW-1165
Site Location: Camillus, NY | Sampling Method: Low Flow | Project #: 48127

Well information:

Depth of Well * 20.06 ft.
Depth to Water * 4.13 ft.
Length of Water Column 15.93 ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 10:10

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	4.70	10.80	6.29	10.6	17	4.81	33.8	240	1.004
5	5.10	13.85	6.98	6.53	10	.92	25.4	240	
10	5.15	14.48	7.21	4.00	40	2.02	20	240	
15	5.15	14.52	7.34	3.08	62	2.41	13.5	200	
20	5.15	14.71	7.31	2.86	66	1.51	8.73	200	
25	5.15	14.75	7.28	2.81	64	1.32	6.60	200	
30	5.15	14.64	7.25	2.80	62	1.43	5.98	200	
35	5.15	14.63	7.24	2.79	61	1.24	5.93	200	1.002

End Purge Time: 10:46

Density Measurement Start 1.004 End 1.002
Total volume of purged water removed:

Water sample:
Time collected: 11:10

Physical appearance at start
Color: Cloudy
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0071-01
SB915-0071-02 (MS)
SB915-0071-03 (MSD)
~~MS/MSD~~

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log 1 of 2

Date	11/6/12	Personnel	EBR	Weather	Overcast 34°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-117S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 26.00 ft.
Depth to Water * 7.88 ft.
Length of Water Column 18.12 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0941

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	8.66	13.33	5.90	24.1	84	2.18	232	340	1.014
5	9.86	15.33	6.46	24.0	45	0.00	116	350	1.014
10	10.62	15.65	6.64	23.5	34	0.00	213	340	1.014
15	11.33	15.71	6.76	22.7	26	0.00	334	310	1.012
20	11.69	15.47	6.81	22.1	22	0.00	416	300	1.013
25	11.93	15.43	6.85	21.7	18	0.00	443	270	1.012
30	12.07	15.42	6.88	21.5	16	0.00	355	260	1.012
35	12.22	15.13	6.90	20.2	14	0.00	>1000	260	1.010
40	12.33	15.35	6.95	19.3	9	0.00	>1000	260	1.010
45	12.44	15.36	6.94	19.8	8	0.00	714	260	1.012
50	12.49	15.22	6.94	17.9	4	0.00	>1000	280	1.012
55	12.57	15.31	7.02	17.3	1	0.00	>1000	280	1.011
60	12.63	15.11	7.03	17.1	-1	0.00	>1000	280	1.010
65	12.68	15.00	7.06	16.2	-3	0.00	>1000	280	1.010
70	12.71	15.11	7.06	16.1	-5	0.00	>1000	280	1.010
75	12.71	15.12	7.08	15.5	-7	0.00	>1000	280	1.010
80	12.73	18.21	7.09	15.3	-8	0.00	>1000	280	1.010
85	12.78	15.27	7.10	15.0	-9	0.00			
95	12.34	15.16	7.11	14.9	-11	0.00	>1000	120	1.008
100	11.80	14.84	7.01	18.5	-4	0.00	280	140	1.008
105	11.37	14.52	7.00	18.3	-3	0.00	648	120	1.008
110	11.05	14.47	7.08	16.4	-7	0.00	>1000	120	1.008

End Purge Time:

Water sample:
Time collected: 1452

Density Measurement Start 1.014 End 1.008
Total volume of purged water removed: ~ 12 gallons

Physical appearance at start
Color Milky
Odor None
Sheen/Free Product None

Physical appearance at sampling
Color Light Brn
Odor No
Sheen/Free Product No

Field Test Results:
Dissolved ferrous iron: NA
Dissolved total iron: NA
Dissolved total manganese: NA
Dissolved Oxygen: NA

SB915-0074-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/6/12	Personnel		Weather	Overcast 34°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-117S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	26.00	ft.
Depth to Water *	7.88	ft.
Length of Water Column	18.12	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0941

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
115	10.86	14.42	7.13	15.3	-11	0.00	>1000	120
	10.05	14.36	7.15	13.9	-12	0.00	>1000	
	stopped purging. Turbidity too high. Removed ~12 gallons (2 well volumes)							
1426	- DTW 8.19	Collecting sample w/ peristaltic pump						
	- Turbidity 478 NTU @ start of sampling							

S.G. 1.008

End Purge Time:

Water sample:

Time collected: 1452

Physical appearance at start

Color: Md Brown

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.014 End 1.008

Total volume of purged water removed: ~12 gallons

Physical appearance at sampling

Color: Light Brown

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0074-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	10/31/12	Personnel	TBP	Weather	Pt Cloudy 40's
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-118S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 15.43 ft.
Depth to Water * 2.80 ft.
Length of Water Column 12.63 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 9:35

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	3.10	13.40	7.99	2.12	99	1.73	7.51	240	1.002
5	3.53	13.58	7.43	2.12	126	.96	3.29	220	1.006
10	3.71	13.68	7.35	2.12	133	.80	2.72	220	
15	3.76	13.53	7.30	2.13	140	.68	1.84	210	
20	3.96	13.51	7.27	2.16	144	.59	1.36	210	1.002
25	4.25	13.41	7.28	2.17	146	.55	1.96	200	
30	4.55	13.33	7.25	2.38	139	.57	7.92	200	
40	4.63	13.20	7.26	2.44	126	.61	11.38	140	1.002
45									
50									

End Purge Time: 1015

Water sample:

Time collected: 10:36

Physical appearance at start
Color Clear
Odor NONE
Sheen/Free Product NONE

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed: ~4 gallons

Physical appearance at sampling
Color Clear
Odor NONE
Sheen/Free Product NONE

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0070-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	10/31/12	Personnel	EBR	Weather	Pt Cloudy 40's
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB 915-mw 7/8BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	59.88	ft.
Depth to Water *	4.39	ft.
Length of Water Column	55.49	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0930

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	4.48	13.10	6.69	12.1	-69	6.51	>1000	360	1.011
5	4.43	13.24	6.76	12.1	-77	5.74	1411	360	1.011
10	4.43	13.38	6.80	12.1	-82	4.91	890	380	1.012
15	4.43	13.40	6.83	12.1	-84	4.21	151	380	1.010
20	4.43	13.42	6.85	12.1	-78	3.55	147	380	1.010
25	4.43	13.38	6.87	12.1	-74	3.11	89.2	370	1.010
30	4.43	13.34	6.88	12.1	-70	2.60	66.2	380	1.011
35	4.43	13.32	6.89	12.1	-69	2.21	66.2	380	1.010
40	4.43	13.34	6.89	12.1	-66	1.76	37.5	380	1.010
45	4.43	13.30	6.90	12.1	-64	1.57	23.6	380	1.010
50	4.43	13.28	6.90	12.1	-62	1.34	20.6	390	1.010
55	4.43	13.27	6.91	12.0	-62	1.22	16.0	380	1.010
60	4.43	13.26	6.91	12.0	-61	1.11	13.8	380	1.010
65	4.43	13.25	6.91	12.1	-61	0.86	14.62	380	1.010

End Purge Time: 1035

Water sample:

Time collected: 1053

Physical appearance at start

Color: Light Brown

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.011 End 1.010

Total volume of purged water removed: 8.94 l.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0070-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11.7.12	Personnel	JWB	Weather	~29°F Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-14D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well *	59.69	ft.
Depth to Water *	6.60	ft.
Length of Water Column	53.09	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1010

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	8.01	12.65	6.67	68.8	-74	0.00		120	
5	8.43	11.73	6.40	72.3	-69	0.00	41.8	120	1.032
10	9.03	11.61	6.30	72.7	-66	0.00	38.5	120	
15	9.42	11.33	6.28	73.4	-63	0.00	33.2	120	
20	9.91	11.33	6.26	73.3	-59	0.00	34.1	120	
25	10.01	11.40	6.26	73.1	-59	0.00	31.4	120	
30	10.40	11.42	6.26	73.3	-58	0.00	33.9	120	

End Purge Time: 1040

Water sample:

Time collected: 1100

Physical appearance at start

Color: clear

Odor: no

Sheen/Free Product: no

Density Measurement Start 1.032 End 1.032

Total volume of purged water removed: ~1 gal

Physical appearance at sampling

Color: w clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0075-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/7/12	Personnel	EBR	Weather	Mostly Cloudy 26°
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	WB1B-MW-14BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 120.69 ft.
Depth to Water * 9.70 ft.
Length of Water Column 110.99 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1000

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	9.75	15.34	5.22	0.0	24	0.0	12.1	120	1.080
5	9.76	14.52	6.00	0.0	-34	0.0	11.72	140	1.080
10	9.78	14.03	6.24	0.0	-124	0.0	27.5	260	1.088
15 *	9.80	13.78	4.92	0.0	172	0.84	1055	300	1.128
20	9.78	12.36	5.62	>100	-34	0.0	1084	240	1.128
25	9.78	12.11	6.20	7100	-68	0.0	810	260	1.128
30	9.78	11.88	6.49	7100	-91	0.0	640	260	1.126
35	9.75	12.04	6.62	7100	-89	0.0	84	240	1.126
40	9.75	12.01	6.86	7100	-101	0.0	77	240	1.124
45	9.75	12.02	6.85	7100	-86	0.0	30	240	1.124
50 **	9.75	11.94	5.81	7100	-2	0.0	84.5	240	1.124
55	9.75	12.03	6.22	7100	-9	0.0	74	220	1.124
60	9.75	12.09	6.38	>100	-36	0.0	70.8	200	1.124
65	9.75	12.06	6.42	>100	-42	0.0	58.5	160	1.124
70	9.75	12.07	6.45	7100	-53	0.0	58.1	140	
75	9.73	11.96	6.46	7100	-51	0.0	53.8	120	1.124
80									

End Purge Time: 1115

SB915-0075-02

Water sample:

Time collected: 1135

Physical appearance at start
Color Cloudy
Odor None
Sheen/Free Product None

Density Measurement Start 1.080 End 1.124

Total volume of purged water removed: 60 gals

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:

Dissolved ferrous iron: NA
Dissolved total iron: NA
Dissolved total manganese: NA
Dissolved Oxygen: NA

* Changed Horiba conductivity reading 0.0. >100 last time.
** Changed Horiba because of unstable pH.

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/6/12	Personnel	JWB	Weather	~32°F Cloudy
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-PZ-07S
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well Information:

Depth of Well *	20.14	ft.
Depth to Water *	19.75	ft.
Length of Water Column	00.39	ft.

* Not enough water to sample

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/6/12	Personnel	CDG	Weather	Cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-~~MW~~-02-07I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	42.10	ft.
Depth to Water *	32.69	ft.
Length of Water Column	9.41	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: ~~1015~~ 915

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	34.08	10.56	12.37	91.3	-185	.87	14.7	320	1.042
5	34.07	11.35	12.60	89.2	-187	.33	23.5	280	
10	34.21	12.9	12.56	88.2	-189	.30	18.8	280	
15	34.21	13.52	12.56	87.0	-188	.25	12.5	280	
20	34.21	13.60	12.55	86.7	-188	.22	13.20	280	1.042
25	34.23	13.49	12.57	88.5	-189	.13	10.33	280	
30	34.24	14.13	12.54	89.6	-193	.05	8.94	280	
35	34.27	14.46	12.52	91.2	-197	.00	7.43	280	
40	34.27	14.61	12.50	92.7	-201	.00	6.16	220	
45	34.21	14.56	12.52	92.8	-204	.00	4.28	220	1.042
50	34.23	14.57	12.52	93.8	-206	.00	3.55	220	
55	34.23	14.72	12.51	94.1	-208	.00	2.76	200	
60	34.21	14.69	12.51	94.2	-211	.00	2.73	200	
65	34.19	14.66	12.51	94.3	-213	.00	1.89	200	
70	Lost	Flow	→	Changed Pump				→	
75	~~34.26~~	13.99	12.54	97.5	-184	.10	24.4	200	1.042
80	34.27	15.46	12.49	96.1	-176	0.23	17.1	200	
85	34.25	15.73	12.47	96.3	-170	.30	11.5	200	
90	34.19	15.62	12.48	96.5	-165	.25	12.02	200	
95	34.11	15.43	12.49	96.7	-163	.31	7.77	200	
100	34.11	15.30	12.50	96.4	-163	.33	6.83	200	
105									
110									

End Purge Time: 1125

Water sample:

Time collected: 1130

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.042 End 1.042

Total volume of purged water removed:

Physical appearance at sampling

Color: Clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0074-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11.6.12	Personnel	TBP	Weather	~32°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-PZ-07D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	65.11	ft.
Depth to Water *	41.21	ft.
Length of Water Column	23.90	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0915

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	46.25	11.44	10.70	81.5	-146	1.71	54.1	140	1.030
5	46.02	11.03	12.36	~~84.7~~ 75.9	-156	1.53	40.6	120	
10	45.81	10.82	12.36	89.7	-169	1.19	33.2	120	
15	45.70	11.41	12.34	91.8	-180	.86	28.5	100	
20	45.75	11.55	12.31	>100	-222	.18	48.0	100	1.050
25	46.07	12.23	12.30	>100	-252	.05	76.9	100	
30	46.11	13.32	12.30	>100	-266	.05	78.5	100	
35	46.03	13.27	12.32	>100	-262	.03	66.6	100	
40	46.05	13.14	12.34	>100	-261	.05	55.8	100	
45	45.95	12.91	12.36	>100	-271	0.00	43.1	100	1.050
50	45.78	12.98	12.35	>100	-265	0.00	34.0	100	
55	45.70	12.76	12.36	>100	-311	0.00	43.1	100	
60	45.65	12.68	12.37	>100	-319	0.00	35.9	100	
65	45.61	12.57	12.38	>100	-326	0.00	36.1	100	
70	45.62	13.12	12.36	>100	-327	0.00	48.5	100	
75	45.81	13.33	12.35	>100	-335	0.00	41.3	100	
* 80	45.90	13.77	12.35	>100	-333	0.00	40.3	100	
~~90~~ 85	~~95.78~~ 45.78	13.68	12.36	>100	-331	0.00	21.6	100	1.052
~~95~~ 90	45.71	13.59	12.37	>100	-341	0.00	20.5	100	
~~100~~ 95	45.71	13.24	12.38	>100	-143	0.00	19.6	100	
~~105~~ 100	45.70	13.35	12.37	>100	-145	0.00	18.0	100	
105									
110									
115									

End Purge Time: 11:00

Water sample:

Time collected: 1130

Physical appearance at start

Color: Slightly cloudy

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.050 End 1.056

Total volume of purged water removed: ~5

Physical appearance at sampling

Color: Clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0074-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11.14.12	Personnel	TBP	Weather	~40°F Sunny/clouds
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-IMW-015
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	20.05	ft.
Depth to Water *	7.56	ft.
Length of Water Column	12.49	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1215

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.00	14.46	6.50	31.1	50	.66	11.12	340	1.012
5	8.40	15.01	6.36	31.2	52	.00	17.1	280	
10	8.61	15.02	6.37	30.1	51	.00	8.92	280	
15	8.95	15.13	6.40	29.7	47	.00	2.67	240	
20	9.10	15.10	6.41	29.6	48	.00	2.50	240	
25	9.30	15.00	6.42	29.7	48	.00	1.65	240	
30	9.46	15.03	6.43	29.6	47	.00	1.68	240	
35	9.60	14.91	6.43	29.7	45	.00	1.27	240	1.010
40									
45									
50									
55									
60									

End Purge Time: 1242

Water sample:

Time collected: 1310

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.012 End 1.010

Total volume of purged water removed:

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0080-07

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/9/12	Personnel	EBR	Weather	Overcast 45°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-IMW-02S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	20.63	ft.
Depth to Water *	5.27	ft.
Length of Water Column	15.36	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1328

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	7.30	14.68	6.34	52.1	-14	2.04	21.3	310	1.024
5	8.38	15.14	7.55	50.7	-4	0.41	15.5	320	1.024
10	9.35	15.40	7.02	49.6	-4	0.28	12.9	320	1.024
15	9.94	15.48	6.76	49.2	-6	0.16	9.14	320	1.024
20	10.30	15.29	6.63	49.6	-5	0.14	9.44	320	1.024
25	10.59	15.25	6.56	50.2	-4	0.14	11.6	320	1.024
30	10.35	15.13	6.53	50.7	-4	0.13	13.0	320	1.024

End Purge Time: 1400

Water sample:

Time collected: 1417

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.024 End 1.024

Total volume of purged water removed: 3.5 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: NA

Dissolved total iron: NA

Dissolved total manganese: NA

Dissolved Oxygen: NA

SB915-0077-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11.9.12	Personnel	TBP	Weather	~45°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-IMW-03S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well * 26.1 ft.
Depth to Water * 8.65 ft.
Length of Water Column 17.45 ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1315

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	9.85	11.90	8.01	77.6	-90	2.22	16.0	300
5	10.0	13.52	6.42	66.8	-72	.19	14.8	~~300~~ 240
10	10.95	13.55	6.28	62.5	-72	.11	14.0	180
15	11.00	13.25	6.19	62.2	-71	.07	13.3	120
20	11.00	13.05	6.09	64.3	-69	0.02	14.3	120
25	11.00	13.11	6.05	64.6	-68	0.00	13.9	120
30	11.00	13.07	6.03	65.2	-68	0.00	14.5	120
35	11.00	13.04	6.01	65.7	-68	0.00	14.7	120
40	11.00	12.92	5.99	66.7	-69	0.00	14.0	120
45	11.01	12.92	5.98	67.5	-69	0.00	14.3	120
50	11.00	13.05	5.96	68.0	-70	0.00	13.8	120
55	11.00	13.02	5.96	68.5	-70	0.00	13.2	120
60	11.03	12.92	5.95	69.5	-71	0.00		120

1.034

End Purge Time:

Water sample:
Time collected: 1504

Density Measurement Start 1.034 End 1.040
Total volume of purged water removed:

Physical appearance at start
Color Clear to grayish in Bucket
Odor NO
Sheen/Free Product NO

Physical appearance at sampling
Color
Odor
Sheen/Free Product

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0077-05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11.9.12	Personnel	JWR	Weather	~39°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-IMW-04S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	17.75	ft.
Depth to Water *	9.90	ft.
Length of Water Column	7.85	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1345

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	10.45	11.97	7.85	12.0	-70	3.05	7.28	180	1.004
5	10.40	14.04	7.85	11.1	-79	0.00	4.39	180	
10	10.53	14.64	7.80	11.0	-91	0.00	4.84	260	
15	10.55	14.84	7.77	11.1	-102	0.00	5.24	260	
20	10.55	14.87	7.75	11.1	-111	0.00	5.16	260	
25	10.60	15.02	7.73	11.0	-117	0.00	4.69	260	
30	10.65	14.99	7.72	11.0	-121	0.00	4.37	260	
35	10.64	14.91	7.71	11.1	-122	0.00	4.00	260	
40	10.63	14.82	7.70	11.2	-124	0.00	3.59	260	1.004

End Purge Time: 1425

Water sample:

Time collected: 1440

Physical appearance at start

Color: clear

Odor: no

Sheen/Free Product: no

Density Measurement Start 1.004 End 1.004

Total volume of purged water removed: 3.5 gallons

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: -

Dissolved total iron: -

Dissolved total manganese: -

Dissolved Oxygen: -

SB915-0077-06

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — **Low Flow Ground Water Sampling Log**

Date	11/12/12	Personnel	EBR	Weather	Overcast 68°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-IMW-05S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	18.11	ft.
Depth to Water *	4.80	ft.
Length of Water Column	13.31	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1357

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	5.20	18.71	11.57	30.0	-238	1.19	7.12	300	1.015
5	5.27	18.23	12.49	29.6	-248	0.00	4.91	300	1.014
10	5.31	17.98	12.66	29.3	-234	0.00	2.05	300	1.014
15	5.31	17.91	12.71	29.4	-231	0.00	1.82	300	1.013
20	5.32	17.83	12.75	29.5	-231	0.00	1.38	300	1.013
25	5.32	17.94	12.73	29.4	-227	0.00	1.44	300	1.013
30	5.32	17.85	12.77	29.4	-226	0.00	1.27	300	1.013
35	5.32	17.87	12.78	29.5	-223	0.00	0.84	300	1.013

End Purge Time: 1438

Density Measurement Start 1.015 End 1.013

Total volume of purged water removed: 39gls.

Water sample:

Time collected: 1455

Physical appearance at start

Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling

Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: NA
Dissolved total iron: NA
Dissolved total manganese: NA
Dissolved Oxygen: NA

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/12/12	Personnel	TBP	Weather	65 Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristatic	Well #	SB915-MW-06S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	15.32	ft.
Depth to Water *	4.64	ft.
Length of Water Column	10.67	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: ~~1450~~ 1350

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	5.1	17.10	11.15	31.6	-138	0.00	43.8	600	1.012
5	5.00	15.62	12.36	30.3	-228	0.00	6.32	400	
10	5.00	15.57	12.36	30.4	-235	0.00	2.99	400	
15	5.00	15.53	12.36	30.5	-238	0.00	1.72	400	
20	5.00	15.52	12.36	30.6	-241	0.00	2.07	400	
25	5.00	15.46	12.36	30.7	-244	0.00	2.00	400	
30	5.00	15.42	12.36	30.7	-246	0.00	1.61	400	
35	5.00	15.48	12.36	30.8	-248	0.00	1.25	400	

End Purge Time: 1425

Water sample:

Time collected: 1438

Physical appearance at start

Color: ~~Clear~~ Clear

Odor: No

Sheen/Free Product: No

Density Measurement Start 1.012 End 1.010

Total volume of purged water removed: 5gal

Physical appearance at sampling

Color: clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0078-06

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/12/12	Personnel	TBP	Weather	~65°F Sun/clouds
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-WB-01L
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	68.77	ft.
Depth to Water *	26.50	ft.
Length of Water Column	42.27	ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1135

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	26.6	13.53	7.07	1.55	91	3.14	37.8	380	1.002
5	26.6	13.38	7.04	1.57	22	1.71	232	380	
10	26.62	13.87	7.03	1.57	10	1.57	226	380	
15	26.62	13.85	7.02	1.56	3	1.57	93.7	400	
20	26.62	13.88	7.04	1.56	1	~~1.57~~ 0.00	43.9	400	
25	26.62	13.92	7.05	1.57	-3	~~1.56~~ 0.00	24.7	400	1.002
30	26.62	13.97	7.05	1.57	-6	0.00	14.6	400	
35	26.62	13.98	7.05	1.57	-8	0.00	10.9	400	
40	26.62	14.08	7.06	1.56	-10	0.00	8.63	400	
45	26.62	14.04	7.06	1.57	-11	0.00	7.05	400	
50	26.62	14.18	7.07	1.57	-13	0.00	~~7.00~~ 6.08	400	
55	26.62	14.19	7.07	1.57	-14	0.00	5.33	400	
60	26.62	14.20	7.07	1.57	-15	0.00	4.29	400	1.002

End Purge Time: 1235

SB915-0078-01

Water sample:

Time collected: 1246

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed: ~8gal

Physical appearance at sampling

Color: Clear

Odor: NO

Sheen/Free Product: NO

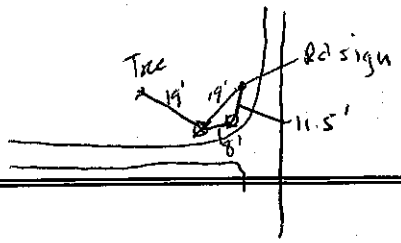
Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:



Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11.8.12	Personnel	WB, EBE, TBP	Weather	~37°F Sun
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WB-03L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	78.04	ft.
Depth to Water *	29.28	ft.
Length of Water Column	48.86	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1146

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	29.43	11.71	10.30	16.9	23	0.00	21.8	160	1.006
5	29.51	11.31	12.04	16.8	-28	0.00	16.1	260	
11	29.52	11.37	11.39	18.5	-208	0.00	14.1	240	
16	29.54	11.27	9.87	25.5	-129	0.00	11.76	240	
20	29.54	11.25	8.75	33.8	-94	0.00	9.24	240	
25	29.54	11.22	8.14	37.7	-73	0.00	7.93	240	
30	29.55	11.25	7.77	39.2	-63	0.00	5.98	240	
35	29.55	11.20	7.54	40.8	-56	0.00	6.17	240	
40	29.55	11.20	7.38	43.2	-52	0.00	5.66	240	
45	29.55	11.20	7.22	45.0	-47	0.00	4.23	240	
50	29.55	11.18	7.18	45.4	-45	0.00	3.62	240	
53	29.55	11.15	7.14	45.9	-44	0.00	4.01	240	1.020

End Purge Time: 1235

Water sample:

Time collected: 1300

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.006 End 1.020

Total volume of purged water removed: ~4.0 gallons

Physical appearance at sampling

Color: Clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: -

Dissolved total iron: -

Dissolved total manganese: -

Dissolved Oxygen: -

SB915-007601

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11-14-12	Personnel	JWR	Weather	~39°F Cloud
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-05U
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information:

Depth of Well * 14.59 ft.
Depth to Water * 14.50 ft.
Length of Water Column 0.09 ft.
* Not enough water to sample

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time:

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time:

Water sample:
Time collected:
Physical appearance at start
Color
Odor
Sheen/Free Product

Density Measurement Start End
Total volume of purged water removed:
Physical appearance at sampling
Color
Odor
Sheen/Free Product

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11.13.12	Personnel	JWR	Weather	~39°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-WB-05L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	121.60	ft.
Depth to Water *	22.00	ft.
Length of Water Column	99.60	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1030

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	22.05	11.77	4.87	>100.0	190	1.41	368	420	1.074
5	22.08	11.57	5.53	>100.0	54	0.30	>1000	420	
10	22.08	11.49	5.64	>100.0	39	0.26	784	420	
15	22.08	11.63	5.51	>100.0	15	0.10	508	420	
20	22.08	11.72	5.89	>1000/100.0	4	0.03	366	420	
25	22.08	11.69	5.92	>100.0	-1	0.01	310	420	
30	22.08	11.78	5.94	>100.0	-4	0.00	259	420	
35	22.08	11.87	5.96	>100.0	-7	0.00	259	420	
40	22.08	11.99	5.98	>100.0	-10	0.00	175	420	
45	22.08	12.14	5.98	>100.0	-12	0.00	145	420	
50	22.08	12.09	5.99	>100.0	-14	0.00	93.1	420	
55	22.08	12.06	6.00	>100.0	-15	0.00	91.9	420	
60	22.08	12.03	6.00	>100.0	-16	0.00	86.5	420	
65	22.08	12.09	6.01	>100.0	-16	0.00	79.5	420	
70	22.08	12.10	6.01	>100.0	-18	0.00	63.7	420	
75	22.08	12.11	6.02	>100.0	-19	0.00	57.6	420	
80	22.08	12.14	6.03	>100.0	-20	0.00	46.0	420	
85	22.08	12.12	6.03	>100.0	-21	0.00	38.1	420	
90	22.08	12.24	6.03	>100.0	-21	0.00	30.8	420	
95	22.08	12.21	6.03	>100.0	-21	0.00	28.3	420	
100	22.08	12.17	6.03	>100.0	-22	0.00	26.9	420	
105	22.08	12.23	6.03	>100.0	-22	0.00	26.2	420	

End Purge Time:

Water sample:

Time collected: 1240

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.074 End 1.080

Total volume of purged water removed: ~15 gallons

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0074-04

SB915-0074-05 (FD)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/14/12	Personnel	EBR	Weather	Sunny 40°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-WB-05M
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well Information:

Depth of Well *	64.57	ft.
Depth to Water *	19.72	ft.
Length of Water Column	44.85	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0946

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	19.68	11.55	5.11	32.6	137	2.94	28.9	360	1.014
5	19.68	11.52	5.81	34.5	25	0.56	8.76	360	1.014
10	19.68	11.54	6.02	35.9	-2	0.23	5.03	360	1.014
15	19.68	11.59	6.13	36.4	-14	0.10	4.45	360	1.014
20	19.68	11.60	6.20	36.2	-22	0.05	4.51	340	1.015
25	19.68	11.59	6.26	36.1	-28	0.00	4.01	360	1.016
30	19.68	11.61	6.31	36.1	-33	0.00	4.34	360	1.015
35	19.68	11.68	6.34	36.0	-36	0.00	4.49	360	1.015

End Purge Time: 1028

Water sample:

Time collected: 1040

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.014 End 1.015

Total volume of purged water removed: 4 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: NA

Dissolved total iron: NA

Dissolved total manganese: NA

Dissolved Oxygen: NA

SB915-0080-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11-13-12	Personnel	JBP	Weather	~39°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-WB-05R
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	157.40	ft.
Depth to Water *	26.40	ft.
Length of Water Column	131.00	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1140

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	28.13	12.23	5.66	~~154~~ 7100	144	0.00	12.25	100	1.130
5	28.95	11.89	6.14	7100	10	0.00	85.6	110	
10	29.05	11.70	6.14	7100	-1	0.00	99.4	110	
15	29.10	11.32	6.16	7100	-9	0.00	88.5	110	
20	29.15	11.27	6.19	7100	-11	0.00	78.2	110	
25	29.29	11.28	6.29	7100	-11	0.00	64.0	100	
30	29.31	11.06	6.22	7100	-10	0.00	57.3	100	
35	29.6	11.53	6.23	7100	-10	0.00	54.3	100	
40	29.7	11.42	6.24	7100	-11	0.00	49.9	~90	
45	30.0	11.51	6.24	7100	-11	0.00	47.6	100	
50	30.09	11.44	6.25	7100	-12	0.00	36.0	100	
55	30.15	11.28	6.25	7100	-11	0.00	39.3	100	
60	30.1	11.09	6.25	7100	-10	0.00	31.8	100	
65	30.11	11.17	6.25	7100	-11	0.00	30.2	100	
70									
75									

End Purge Time: 1248

Water sample:

Time collected: 1320

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.130 End 1.132

Total volume of purged water removed: ~3.5 gal

Physical appearance at sampling

Color: clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0079-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11·16·12	Personnel	JWB	Weather	~30°F Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WB-06
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	82.00 ft.	* Measurements taken from	
Depth to Water *	~~12.39~~ 12.96 ft.	X	Top of Well Casing
Length of Water Column	69.04 ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1015 * DTW measured from top of protective casing

Elapsed Time (min.)	(0.3-ft) ~~Depth~~ To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	13.75	15.57	4.62	>100.0	143	0.00	12.63	360	1.060
5	13.80	14.86	5.18	>100.0	84	0.00	8.33	400	
10	13.80	14.32	5.43	>100.0	56	0.00	6.74	400	
15	13.80	12.64	5.62	>100.0	36	0.00	4.45	400	
20	13.80	12.59	5.71	>100.0	26	0.00	2.65	400	
25	13.80	12.56	5.75	>100.0	22	0.00	2.54	400	
28	13.80	12.59	5.77	>100.0	20	0.00	2.43	400	
31	13.80	12.60	5.79	>100.0	19	0.00	2.31	400	
34	13.80	12.62	5.80	>100.0	19	0.00	2.14	400	1.064

End Purge Time: 1050

Water sample:

Time collected: 1100

Physical appearance at start

Color: clear
Odor: no
Sheen/Free Product: no

Density Measurement Start 1.060 End 1.064

Total volume of purged water removed: 4 gallons

Physical appearance at sampling

Color: clear
Odor: no
Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

SB915-0082-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11-14-12	Personnel	JWB	Weather	~34°F Sun/clouds
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WR-07U
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	55.80	ft.
Depth to Water *	9.95	ft.
Length of Water Column	45.85	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1155

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	9.96	13.31	5.24	31.6	189	2.27	79.4	480	1.014
5	9.96	14.18	6.18	31.8	68	0.00	79.8	480	
10	9.96	14.31	6.49	31.7	37	0.00	25.7	480	
15	9.96	14.38	6.59	31.7	27	0.00	10.1	480	
20	9.96	14.40	6.64	31.7	21	0.00	8.31	480	
25	9.96	14.37	6.66	31.6	19	0.00	4.85	480	
30	9.96	14.49	6.69	31.5	14	0.00	3.52	480	
35	9.96	14.50	6.70	31.5	13	0.00	2.87	480	
40	9.96	14.51	6.70	31.5	13	0.00	2.59	480	

End Purge Time: 1235

Water sample:

Time collected: 1245

Density Measurement Start 1.014 End 1.014

Total volume of purged water removed:

Physical appearance at start

Color: clear
Odor: no
Sheen/Free Product: no

Physical appearance at sampling

Color: clear
Odor: no
Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

SB915-0080-06

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — **Low Flow Ground Water Sampling Log**

Date	11/14/12	Personnel	EBR	Weather	Partly Sunny 40°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-WB-07L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	79.66	ft.
Depth to Water *	10.93	ft.
Length of Water Column	68.73	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1147

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	10.99	13.23	7.80	88.9	-107	1.06	2.36	360	1.044
5	10.99	12.70	6.69	91.5	-22	0.18	0.93	360	1.044
10	10.99	12.59	6.32	91.9	-9	0.07	0.94	360	1.046
15	10.99	12.68	6.14	92.2	-5	0.02	0.75	360	1.044
20	10.99	12.82	6.14	92.2	-3	0.00	0.67	330	1.044
25	10.99	12.92	6.12	92.1	-3	0.00	0.61	340	1.044
30	10.99	12.96	6.11	92.0	-3	0.00	0.58	340	1.044
35	10.99	13.03	6.11	91.9	-4	0.00	0.73	350	1.044

End Purge Time: 1227

Water sample:
Time collected: 1243

Density Measurement Start 1.044 End 1.044
Total volume of purged water removed: 3.5 gals.

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron: NA
Dissolved total iron: NA
Dissolved total manganese: NA
Dissolved Oxygen: NA

SB915-0080-05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11-15-12	Personnel	JWR	Weather	~30°F Sun/clouds
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-07R
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	114.59	ft.	* Measurements taken from
Depth to Water *	15.27	ft.	X Top of Well Casing
Length of Water Column	99.32	ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: H2O @ 1020

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
@0	15.27	Purging water to drum		DTW to	~49.83ft	btoc			
1030 @30	49.93	10.70	5.49	>100.0	318	0.00	37.5	140	
5	49.93	11.86	6.38	>100.0	138	0.00	37.4	200	1.104
10	50.00	11.90	6.96	>100.0	23	0.00	77.1	200	
15	50.00	11.64	6.7.19	>100.0	-13	0.00	194	200	
20	50.00	11.60	7.31	>100.0	-42	0.00	293	200	
25	50.01	11.68	7.37	>100.0	-60	0.00	372	200	
30	50.02	11.69	7.41	>100.0	-68	0.00	407	200	
35	50.02	11.89	7.41	>100.0	-74	0.00	378	200	
40	50.02	11.97	7.41	>100.0	-77	0.00	329	200	~~1.110~~
45	50.03	11.80	7.42	>100.0	-82	0.00	317	200	1.110
50	50.02	11.96	7.43	>100.0	-84	0.00	297	200	
55	50.02	12.23	7.44	>100.0	-87	0.00	277	200	
60	50.02	12.32	7.44	>100.0	-87	0.00	288	200	
65	50.02	12.57	7.45	>100.0	-91	0.00	330	200	
70	50.07	12.76	7.38	>100.0	-89	0.00	391	140	
75	50.20	12.87	7.38	>100.0	-79	0.00	384	140	
80	50.30	12.92	7.41	>100.0	-76	0.00	234	140	
85	50.32	12.99	7.41	>100.0	-75	0.00	173	140	
90	50.40	13.09	7.41	>100.0	-71	0.00	129	140	
95	50.40	13.18	7.41	>100.0	-68	0.00	112	140	
100	50.32	13.29	7.41	>100.0	-68	0.00	95	140	
105	50.22	19.43	7.40	>100.0	-69	0.00	86	140	

End Purge Time: 1225

Water sample:

Time collected: 1250

Physical appearance at start

Color: Clear

Odor: ND

Sheen/Free Product: ND

Density Measurement Start 1.104 End 1.104

Total volume of purged water removed: ~12.5 gallons

Physical appearance at sampling

Color: Clear

Odor: ND

Sheen/Free Product: ND

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0081-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11.15.12	Personnel	JWB	Weather	~30°F Sun/Clouds
Site Name	SB915 Closure	Evacuation Method	Groundfos Pump	Well #	SB915-WB-07R
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	114.54	ft.
Depth to Water *	15.27	ft.
Length of Water Column	99.32	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1020

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
110	50.15	13.35	7.36	>100.0	-70	0.00	42	140	
113	50.13	13.36	7.35	>100.0	-71	0.00	95	140	1.104
116									

End Purge Time: 1225

Water sample:

Time collected: 1250

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.104 End 1.104

Total volume of purged water removed: ~12.5 gallons

Physical appearance at sampling

Color: Clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0081-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/9/12	Personnel	EBR	Weather	Overcast 41°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-WB-09U
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	14.56	ft.
Depth to Water *	12.57	ft.
Length of Water Column	1.99	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1014

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	13.68	13.55	7.62	19.2	-174	1.25	33.2	270	1.012
5	14.09	13.64	11.72	22.2	-154	4.98	103	120	1.012
10	14.04	13.36	12.51	23.7	-151	5.44	28.5	130	
15	14.09	13.25	12.70	24.4	-151	5.99	6.48	140	
20	14.13	13.19	12.76	24.8	-152	6.05	3.50	140	1.014
25	14.13	13.18	12.81	25.0	-152	6.25	2.24	140	
30	14.13	13.31	12.82	25.0	-153	6.00	1.86	140	1.014
35	14.13	13.19	12.83	25.0	-153	6.15	2.17	140	1.014

End Purge Time: 1050

Water sample:

Time collected: 1125

Physical appearance at start

Color: Cloudy

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.012 End 1.014

Total volume of purged water removed: 1.5 gals.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:	NA
Dissolved total iron:	NA
Dissolved total manganese:	NA
Dissolved Oxygen:	NA

*Lots of air in line.

SB915-0077-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/9/12	Personnel	JWB	Weather	Overcast 41°
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-WB-09L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	74.75	ft.
Depth to Water *	6.54	ft.
Length of Water Column	68.21	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1110

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	6.56	13.85	6.92	79.2	91	0.84	2638	460	Density 1.044
5	6.56	13.00	6.76	89.2	48	0.00	2074	320	
10	6.56	12.81	6.77	92.4	40	0.00	1038	320	
15	6.56	12.75	6.76	95.3	35	0.00	873	320	
20	6.56	12.56	6.78	94.8	30	0.00	671	320	
25	6.56	12.29	6.79	95.5	28	0.00	120	200	
30	6.56	12.35	6.81	95.3	27	0.00	100.8	200	
35	6.56	12.31	6.82	95.4	26	0.00	92.1	200	
40	6.56	12.30	6.84	95.3	25	0.00	88.4	200	
46	6.56	12.33	6.85	95.2	24	0.00	56.0	200	
50	6.56	12.26	6.86	96.0	24	0.00	57.6	200	1.046
55	6.56	12.15	6.86	95.5	23	0.00	~~62.2~~ 57.7	200	
60	6.56	12.12	6.86	95.2	23	0.00	57.2	200	

End Purge Time: 1210

Water sample:

Time collected: 1230

Physical appearance at start

Color: Med Brown

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.044 End 1.046

Total volume of purged water removed: 4 gallons

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0077-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	11/12/12	Personnel	JwR	Weather	~65°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WB-1011
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	19.13	ft.
Depth to Water *	10.89	ft.
Length of Water Column	8.24	ft.

1x well Volume = 1.34 3x = 4.0

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1145

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	11.25	19.35	6.81	54.9	-39	0.00	25.1	140	1.026
5	11.40	18.93	6.72	54.2	-37	0.00	23.1	140	
10	11.50	18.81	6.69	53.7	-36	0.00	18.9	140	
Purged Well Dry removed 3x well volume (4.0 gallons)									
Will allow well to recover over night & collect sample on 11/13/12									
11/13/12	Collecting water sample								
1000	11.07								

End Purge Time: 1430

Water sample:

Time collected: 1015 (11.14.12)

Physical appearance at start

Color: Clear

Odor: No

Sheen/Free Product: No

Density Measurement Start 1.026 End 1.026

Total volume of purged water removed: 4 gallons

Physical appearance at sampling

Color: V. light orange/brown

Odor: No

Sheen/Free Product: No

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0080-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	11/12/12	Personnel	CDG	Weather	66°F cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-WB-10L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	74.24	ft.
Depth to Water *	7.32	ft.
Length of Water Column	66.92	ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1145

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	7.32	15.80	5.94	95.2	-16	.37	<1000	320	1.052
5	7.33	14.45	6.10	97.6	-26	.13	<1000	320	
10	7.33	14.72	6.12	97.8	-28	.08	<1000	300	1.050
15	7.38	14.24	6.13	98.0	-30	.05	748	300	
20	7.38	14.01	6.13	98.9	-31	.02	550	300	
25	7.38	→	Meter change			→	Meter change	→	
30	7.35	14.59	6.15	97.7	-33	.06	196	340	
35	7.35	14.32	6.15	98.3	-33	.01	199	320	
40	7.35	14.31	6.15	98.5	-34	.00	176	320	1.052
45	7.36	14.27	6.15	98.4	-34	.00	158	320	
50	7.37	14.38	6.15	98.3	-34	.00	124	320	
55	7.37	14.33	6.15	98.1	-33	.00	116	320	
60	7.37	14.28	6.15	98.2	-33	.00	83.4	320	
65	7.37	14.34	6.14	98.2	-33	.00	71.2	320	
70	7.37	14.32	6.14	98.2	-33	.00	60.5	320	
75	7.35	14.33	6.14	98.2	-33	.00	45.2	320	
80	7.35	14.25	6.14	98.0	-33	.00	30.4	320	
85	7.35	14.31	6.14	98.0	-33	.00	26.8	320	
90	7.35	14.26	6.14	98.0	-32	.00	24.3	320	
95	7.34	14.32	6.14	98.1	-32	.00	22.3	320	
100	7.34	14.40	6.14	98.1	-32	.00	19.3	320	
105	7.34	14.36	6.14	98.0	-32	.00	16.7	320	
110	7.34	14.32	6.14	97.8	-32	.00	16.8	320	

End Purge Time: 1400

Water sample:

Time collected: 1413

Physical appearance at start: BROWN

Color: ~~BROWN~~ CDG

Odor: NONE

Sheen/Free Product: NONE

Density Measurement Start 1.052 End 1.052

Total volume of purged water removed: ~12

Physical appearance at sampling

Color: clear

Odor: NONE

Sheen/Free Product: NONE

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0078-05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

Appendix F-4

Round 4 (February 2013) Groundwater Sampling Logs

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2-7-13	Personnel	JWB	Weather	~19°F Sunny/clouds
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW1-01
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	18.33	ft.
Depth to Water *	9.93	ft.
Length of Water Column	8.40	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1105

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	10.05	9.09	7.14	0.841	265	4.47	—	120	
5	10.16	8.53	6.73	0.855	277	3.55	27.4	120	1.002
10	10.30	7.26	6.50	0.884	273	2.75	26.6	120	
15	10.49	6.70	6.73	0.899	256	2.24	23.1	120	
20	10.50	6.74	6.80	0.900	246	2.33	20.3	120	
25	10.64	6.64	6.94	0.899	234	1.81	17.7	120	
30	10.72	6.54	6.97	0.903	228	1.46	13.8	120	
35	10.79	6.58	6.95	0.904	216	1.40	13.3	120	
40	10.88	6.78	6.94	0.904	182	0.94	12.1	120	
45	10.97	6.72	6.95	0.906	152	0.55	10.0	120	
50	11.07	6.61	6.91	0.907	135	0.13	9.64	120	
53	11.10	6.57	6.92	0.907	136	0.00	8.89	120	
56	11.12	6.63	6.92	0.907	133	0.00	7.85	120	
59	11.14	6.65	6.91	0.908	134	0.00	6.37	120	1.002

End Purge Time: 1203

Water sample:

Time collected: 1230

Physical appearance at start

Color: clear

Odor: no

Sheen/Free Product: no

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed: ~2.5 gallons

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0088-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2-7-13	Personnel	JWR	Weather	~14°F Sunny/clear
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-03
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	36.38	ft.
Depth to Water *	7.35	ft.
Length of Water Column	29.03	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1315

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	7.31	4.86	6.91	14.6	-27	2.80	—	300	1.006
5	7.32	7.65	6.99	14.7	-23	0.00	5.52	300	
10	7.32	8.81	6.92	14.5	-20	0.00	5.00	300	
15	7.32	8.97	6.84	14.5	-17	0.00	4.53	300	
20	7.31	8.93	6.80	14.4	-17	0.00	4.79	300	
25	7.31	8.88	6.79	14.4	-16	0.00	4.61	300	
30	7.31	8.96	6.79	14.4	-17	0.00	4.54	300	1.008

End Purge Time: 1345

Water sample:

Time collected: 1400

Physical appearance at start

Color: clear
Odor: no
Sheen/Free Product: no

Density Measurement Start 1.006 End 1.008

Total volume of purged water removed: ~3.0 gallons

Physical appearance at sampling

Color: clear
Odor: no
Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

SB915-0088-08

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2-5-13	Personnel	TBB	Weather	~19°F Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-04
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	20.51	ft.
Depth to Water *	5.61	ft.
Length of Water Column	14.90	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1250

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	7.0	6.33	6.37	36.0	61	1.32	26.2	400
5	8.0	8.89	6.34	36.9	49	0.00	30.4	300
10	9.0	8.90	6.34	37.2	47	0.00	46.2	260
15	9.84	8.77	6.36	37.3	45	0.00	57.2	260
20	10.45	8.87	6.37	37.2	43	0.00	78.2	260
25	10.9	8.92	6.37	37.2	42	0.00	39.0	260
30	11.3	9.10	6.38	37.1	41	0.00	28.9	260
35	11.47	9.14	6.38	37.2	41	0.00	25.5	260
40	11.78	9.30	6.38	37.1	41	0.00	17.0	260
45	11.85	9.28	6.38	37.0	41	0.00	11.9	260
50	12.00	9.26	6.38	37.00	39	0.00	9.49	240
55	12.15	9.26	6.38	37.0	39	0.00	6.68	240
60	12.22	9.32	6.39	37.0	36	0.00	5.20	240

End Purge Time: 13:50

Water sample:

Time collected: 1405

Physical appearance at start

Color: clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.020 End 1.007

Total volume of purged water removed: ~4.5 gal

Physical appearance at sampling

Color: clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0086-08

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	6/7/13	Personnel	TBP	Weather	Sunny 30's
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-36S
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	19.72	ft.
Depth to Water *	7.93	ft.
Length of Water Column	11.79	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1245

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
* 0	8.92	3.45	13.42	7.61	-26	7.90	4.48	300	1.002
5	8.88	6.09	13.64	7.55	-39	4.56	1.09	200	
10	8.90	5.97	13.61	7.55	-45	4.29	.85	200	
15	8.92	6.07	13.67	7.54	-47	4.17	.85	200	
20	8.92	6.04	13.69	7.52	-47	4.10	1.13	200	
25	8.92	5.99	13.70	7.51	-48	4.01	1.25	200	1.002
30	8.92	6.08	13.70	7.50	-48	3.93	1.30	200	
35									

End Purge Time: 1318

Water sample:

Time collected: 1330

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed: ~2 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0088-05

* DTW From top of protective casing

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2/7/13	Personnel	JAK	Weather	~20°F partly cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-36I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	64.37	ft.
Depth to Water *	13.01	ft.
Length of Water Column	51.36	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1345

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SPG
0	13.54	3.78	14.00	7.30	-54	3.63	4.94	150	
5	13.57	4.79	14.00	6.68	-67	1.33	3.06	160	1.002
10	13.61	5.27	14.00	6.48	-67	0.85	2.85	180	1.002
15	13.55	5.55	14.00	6.38	-67	0.48	2.43	160	
20	13.57	5.69	14.00	6.30	-67	0.44	1.32	160	
25	13.58	5.83	14.00	6.26	-67	0.12	1.25	160	1.002
30	13.59	5.93	14.00	6.24	-68	0.00	0.83	160	
35	13.59	6.01	14.00	6.22	-68	0.00	0.78	160	
40	13.59	6.07	14.00	6.21	-68	0.00	0.97	160	1.002
45	13.59	6.17	14.00	6.21	-69	0.00	0.56	160	

End Purge Time: 1330

Water sample:

Time collected: 1355

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed:

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0088-06

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	02/07/13	Personnel	JCK	Weather	Overcast ~30°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-36D
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well *	119.10	ft.
Depth to Water *	80.72	ft.
Length of Water Column	38.38	ft.

* Measurements taken from

	Top of Well Casing
+	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1245

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	81.55	8.02	7.27	12.2	-210	1.20	20.0	360	1.006
5	81.55	8.92	8.51	12.3	-176	0.00	18.6	360	1.006
10	81.55	10.02	8.08	12.1	-145	0.00	25.3	360	1.004
15	81.55	11.01	7.81	11.0	-121	0.00	20.3	360	1.004
20	81.55	11.47	7.61	9.51	-101	0.00	11.9	420	1.002
25	81.55	11.10	7.49	8.83	-59	0.00	10.4	300	1.002
30	81.55	11.02	7.43	8.36	-83	0.00	6.88	300	1.002
35	81.55	11.13	7.38	8.15	-79	0.00	7.56	300	1.002
40	81.55	11.84	7.31	7.45	-73	0.00	9.67	340	1.002
45	81.55	12.19	7.28	7.09	-70	0.00	9.21	360	1.002
50	81.55	12.41	7.25	6.83	-68	0.00	5.06	360	1.002
55	81.55	12.57	7.22	6.67	-66	0.00	5.38	360	1.002
60	81.55	12.58	7.21	6.49	-65	0.00	9.33	360	1.002
65	81.55	12.69	7.19	6.31	-64	0.00	4.88	360	1.002
70	81.55	12.70	7.18	6.20	-62	0.00	4.53	360	1.002

End Purge Time: 1355

Water sample: SB915-0038-07

Time collected: 1415

Density Measurement Start 1.006 End 1.002

Total volume of purged water removed: 7 gal

Physical appearance at start

Color: Clear

Odor: Sulfur

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: Light Sulfur

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	7-19-13	Personnel	JWB	Weather	~40°F Cloudy
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-42S
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information:

Depth of Well * 41.79 ft.
Depth to Water * 40.40 ft.
Length of Water Column ft.

* Measurements taken from

/	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

* Dry, Not enough water to sample

Start Purge Time:

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time:

Water sample:
Time collected:

Physical appearance at start
Color
Odor
Sheen/Free Product

Density Measurement Start End
Total volume of purged water removed:

Physical appearance at sampling
Color
Odor
Sheen/Free Product

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/19/13	Personnel	PAF	Weather	Overcast Raining ~40°F
Site Name	SB915 Closure	Evacuation Method	Grundfos Reliflex	Well #	SB915-MW-42I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	70.08	ft.
Depth to Water *	48.59	ft.
Length of Water Column	21.49	ft.
1 vol = 3.50 gal		

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1230

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	48.59	8.12	12.25	93.2	20	0.52	47.8	100
5	51.22	7.94	12.41	91.9	-80	0.00	26.4	60
10	51.45	7.71	12.47	90.5	-97	0.00	22.0	100
15	51.54	7.60	12.52	89.9	-102	0.00	17.3	100
20	51.73	7.66	12.55	89.5	-104	0.00	19.3	100
25	51.72	7.73	12.56	89.0	-103	0.00	36.1	380
30	55.20	16.31	12.24	87.1	-113	0.00	30.8	300
35	55.95	15.94	12.33	86.4	-120	0.00	14.8	120
40	57.74	16.04	12.36	85.8	-120	0.00	102.6	320
45	59.51	16.86	12.35	84.8	-109	0.00	14.5	240
50	61.49	16.37	12.39	83.5	-91	0.00	17.0	300
55	61.54	16.54	12.42	80.6	-67	1.12	76.6	460
60	62.56	16.05	12.44	79.9	-63	1.25	25.5	200
65	64.60	15.85	12.42	84.6	-54	0.72	23.6	200
70	65.50	16.71	12.39	84.8	-54	0.89	16.2	200
75	65.61	15.26	12.44	87.0	-53	0.69	18.9	
2/20/13	48.70							
	Collecting sample w/ PVC Bailer							

End Purge Time: 1348

Water sample: SB915-0099-04

Time collected: 1406 on 2/20/13

Physical appearance at start

Color: clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.058 End

Total volume of purged water removed:

Physical appearance at sampling

Color

Odor

Sheen/Free Product

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Notes:

1) Increase rate, purged volume & drop in head

2) Purged below pump intake

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2/19/13	Personnel	SMN	Weather	rain / 40's
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW3-420
Site Location	Camillus, NY	Sampling Method	Grab	Project #	48127

Well information:

Depth of Well *	133.40	ft.
Depth to Water *	68.08	ft.
Length of Water Column	65.32	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1232

changed flow through + meter

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	68.18	8.82	6.92	66.9	-98	2.12	696	460	1.052
5	68.17	10.55	5.89	98.1	-40	0.00	474	440	1.056
10	68.17	11.43	6.25	7100	-39	0.00	233	440	1.056
15	68.17	11.64	6.01	7100	-38	0.00	174	440	
20	68.17	11.82	6.26	7100	-39	0.00	126	440	
25	68.17	12.05	6.26	7100	-39	0.00	74.2	440	
30	68.17	12.23	—	—	—	—	—	440	
35	68.17	9.40	6.39	—	-5	1.94	—	400	
40	68.16	10.31	6.41	7100	-11	0.38	49.4	500	
45	68.16	11.30	6.47	7100	-11	0.00	50.1	460	
50	68.16	11.62	6.47	7100	-16	0.00	39.4	460	
53	68.16	11.70	6.46	7100	-16	0.00	40.9	460	

End Purge Time: 1350

Water sample:

Time collected: 1330

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.052 End 1.056

Total volume of purged water removed: 7 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0017-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2-12-13	Personnel	JWB	Weather	~32°F Cloudy
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-53S
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information:

Depth of Well * 35.01 ft.
Depth to Water * 35.00 ft.
Length of Water Column 0.01 ft.
* Dry, not sampled

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:
Time collected: _____
Physical appearance at start
Color _____
Odor _____
Sheen/Free Product _____

Density Measurement Start _____ End _____
Total volume of purged water removed: _____
Physical appearance at sampling
Color _____
Odor _____
Sheen/Free Product _____

Field Test Results:
Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2.12.13	Personnel	PAF	Weather	Overcast, windy, 20°
Site Name	SB915 Closure	Evacuation Method	Grundfos Redi-Flo 2	Well #	SB915-MW-5.3I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	73.18	ft.
Depth to Water *	48.60	ft.
Length of Water Column	24.58	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1055

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	48.60	8.66	13.36	>100 *	-142	5.34	93.7	200
5	52.51	8.15	13.63	>100 *	-244	0.00	35.5	140
10	52.41	8.24	13.62	>100 *	-247	0.00	27.7	140
15	53.53	8.01	13.62	>100 *	-244	0.00	19.3	130
20	53.85	8.09	13.61	>100 *	-244	0.00	17.8	130
25	54.07	7.98	13.61	>100 *	-244	0.00	23.4	120
30	54.20	7.65	13.62	>100 *	-237	0.00	22.1	120
35	54.42	7.79	13.60	>100 *	-240	0.00	19.0	120
40	54.65	7.78	13.60	>100 *	-238	0.00	18.7	120
45	54.79	7.89	13.59	>100 *	-240	0.00	18.4	120
50	55.09	7.96	13.59	>100 *	-240	0.00	18.8	120
55	55.26	7.90	13.59	>100 *	-241	0.00	18.4	120
60	55.31	7.88	13.59	>100 *	-243	0.00	18.7	120

End Purge Time: 1105

Water sample:

Time collected: 1204

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.076 End 1.074

Total volume of purged water removed: ~7.5 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

* Conductivity out of range e.g. >100 ms/cm

SB915-0092-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/2/13	Personnel	AKM	Weather	~32°F Cloudy/Windy
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-53D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 123.90 ft.
Depth to Water * 67.54 ft.
Length of Water Column 56.36 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1005

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	67.61	9.14	6.25	1.40	33	0.00	411	240	1.002
5	67.61	9.04	6.45	1.36	-19	0.00	375	300	
10	67.61	9.43	6.61	1.35	-38	0.00	250	360	1.001
15	67.61	10.05	6.71	1.37	-49	0.00	191	400	
20	67.61	10.60	6.77	1.67	-57	0.00	170	320	1.000
1030 25	67.59	10.40	6.83	1.74	-59	0.00	124	280	
30	67.59	10.29	6.87	1.85	-62	0.00	97.3	340	1.000
35	67.59	10.32	6.91	1.92	-66	0.00	68.2	300	
40	67.59	10.26	6.93	1.97	-68	0.00	54.9	260	1.000
45	67.59	10.20	6.96	2.02	-70	0.00	41.6	240	
50	67.61	10.11	6.98	2.05	-72	0.00	35.9	300	1.000
1100 55	67.61	10.41	6.98	2.06	-73	0.00	32.0	300	
60	67.61	10.74	6.98	2.08	-74	0.00	29.9	360	1.000
65	67.59	11.21	7.00	2.12	-75	0.00	25.2	360	
70	67.59	11.10	7.01	2.14	-76	0.00	18.9	380	1.000
75	67.59	11.14	7.02	2.15	-77	0.00	18.6	340	
80	67.59	11.16	7.03	2.16	-78	0.00	16.6	300	1.000

End Purge Time: 1125

Water sample:
Time collected: 1154

Physical appearance at start
Color: slightly gray
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.002 End 1.000
Total volume of purged water removed: 7 gallons

Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0092-0002
SB915-0092-03 (Dup)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2·11·13	Personnel	JWB	Weather	~40's F Sunny/clear
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-595
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	21.62	ft.
Depth to Water *	12.37	ft.
Length of Water Column	9.25	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1100

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	12.35	10.31	4.60	24.5	236	2.87	101	260	1.012
5	12.35	10.18	5.50	25.0	151	0.09	125	360	
10	12.35	10.58	5.66	25.0	123	0.00	131	400	
15	12.35	10.98	5.96	25.0	74	0.00	86.0	400	
20	12.35	11.00	6.07	24.9	55	0.00	54.8	400	
25	12.35	10.96	6.13	24.9	43	0.00	20.7	400	
30	12.35	10.97	6.18	25.0	33	0.00	14.2	400	
35	12.35	10.90	6.24	24.9	21	0.00	6.21	400	
40	12.35	10.99	6.28	24.9	12	0.00	4.73	400	
45	12.35	10.97	6.29	24.9	8	0.00	4.00	400	
50	12.35	10.99	6.32	24.9	1	0.00	4.58	400	
55	12.35	11.13	6.33	24.9	-2	0.00	4.35	400	
60	12.35	11.25	6.36	24.9	-7	0.00	4.32	400	
63	12.35	11.29	6.36	24.9	-8	0.00	4.30	400	
66	12.35	11.32	6.37	24.9	-10	0.00	4.18	400	1.012

End Purge Time: 1206

Water sample:

Time collected: 1220

Physical appearance at start

Color: Clear

Odor: No

Sheen/Free Product: No

Density Measurement Start 1.012 End 1.012

Total volume of purged water removed: ~7.0 gallons

Physical appearance at sampling

Color: clear

Odor: No

Sheen/Free Product: No

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0091-07

(11 Bottles)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2.20.13	Personnel	JWB	Weather	~24°F Sun/Windy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-605
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	21.86	ft.
Depth to Water *	12.60	ft.
Length of Water Column	9.26	ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1010

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	12.59	7.48	6.46	17.4	-26	2.70	24.1	300	1.010
5	12.59	8.89	6.67	16.2	-44	0.00	24.3	320	
10	12.59	9.17	6.74	15.9	-49	0.00	15.9	320	
15	12.59	9.31	6.82	15.4	-54	0.00	11.8	320	
20	12.59	9.44	6.88	15.1	-57	0.00	11.2	320	
25	12.59	9.41	6.91	14.9	-59	0.00	5.47	320	
30	12.59	9.37	6.93	14.8	-60	0.00	5.22	320	
33	12.59	9.52	6.94	14.8	-61	0.00	3.29	320	
36	12.59	9.48	6.94	14.8	-61	0.00	3.25	320	1.006

End Purge Time: 1046

Water sample:

Time collected: 1056

Physical appearance at start

Color: clear
Odor: NO
Sheen/Free Product: NO

Density Measurement Start 1.010 End 1.006

Total volume of purged water removed: ~ 3.5 gallons

Physical appearance at sampling

Color: clear
Odor: NO
Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —
Dissolved total iron: —
Dissolved total manganese: —
Dissolved Oxygen: —

SB915-0098-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2-11-13	Personnel	TBD	Weather	~41°F Sun
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-705
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 26.70 ft.
Depth to Water * 17.80 ft.
Length of Water Column 8.90 ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 12:48

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	17.80	11.09	8.71	26.0	-97	0.00	849	550
5	17.85	11.24	8.00	25.9	-94	0.00	179	500
10	17.85	11.22	7.83	23.8	-94	0.00	52.3	~~500~~ 500
15	17.85	11.21	7.73	23.8	-92	0.00	34.8	500
20	17.85	11.21	7.66	23.8	-92	0.00	22.5	500
25	17.85	11.22	7.63	23.8	-92	0.00	18.3	500
30	17.85	11.27	7.61	23.8	-93	0.00	17.8	500
35	17.85	11.27	7.59	23.8	-93	0.00	14.9	500
40								

1.012

End Purge Time: 13:25

Water sample:

Time collected: 1335

Physical appearance at start
Color Cloudy
Odor None
Sheen/Free Product None

Density Measurement Start 1.012 End 1.010

Total volume of purged water removed: ~6gal

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0091-08

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/11/13	Personnel	KJK	Weather	Sunny ~40°F
Site Name	SB915 Closure	Evacuation Method	Peri Pump	Well #	SB915-MW-70D
Site Location	Camillus, NY	Sampling Method	Peri Pump	Project #	48127

Well information:

Depth of Well *	62.22	ft.
Depth to Water *	18.73	ft.
Length of Water Column	43.49	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1255

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	18.65	10.42	6.58	88.5	12	0.00	3.20	340	1.038
5	18.65	10.71	6.59	93.9	-2	0.00	33.4	340	
10	18.65	10.73	6.63	95.3	-10	0.00	26.1	346	
15	18.65	10.82	6.64	95.4	-12	0.00	23.1	340	1.042
20	18.65	10.86	6.65	95.3	-13	0.00	16.1	340	
25	18.65	10.98	6.65	95.2	-15	0.00	12.2	346	
30	18.65	11.03	6.65	95.6	-16	0.00	10.9	340	1.044

End Purge Time: 1330

Water sample: ~~SB915-0041-09~~ SB915-0041-09

Time collected: 1345

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.038 End 1.044

Total volume of purged water removed: 3 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	9/20/13	Personnel	STW	Weather	70's sunny
Site Name	SB915 Closure	Evacuation Method	Pm	Well #	SB915-MW-35D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	79.75	ft.
Depth to Water *	12.94	ft.
Length of Water Column	66.81	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0955

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0955 0	12.94	8.33	5.33	98.8	91	0.00	109	200	1.060
5	12.90	8.88	5.78	98.7	32	0.00	69.2	280	
10	12.90	8.98	6.03	98.8	10	0.00	67.9	200	
15	12.90	8.75	6.20	99.3	-7	0.00	55.8	200	
20	12.91	8.61	6.31	98.6	-17	0.00	47.1	200	
25	12.91	8.54	6.40	97.0	-24	0.00	41.2	200	
30	12.93	8.57	6.47	~~97.5~~	-31	0.00	29.3	220	
35	12.92	8.88	6.57	96.3	-36	0.00	28.0	220	
40	12.92	8.103	6.56	97.9	-39	0.00	26.1	220	
45	12.92	8.71	6.60	97.3	-43	0.00	23.5	220	
50	12.92	8.65	6.62	97.6	-46	0.00	22.8	220	
55	12.92	8.81	6.65	96.3	-49	0.00	20.9	210	
1055 60	12.89	8.40	6.67	98.3	-51	0.00	19.8	200	

End Purge Time: 1055

Water sample:
Time collected: 1125

Density Measurement Start 1.060 End 1.060

Total volume of purged water removed: 1.5 gal

Physical appearance at start
Color: Slightly cloudy
Odor: none
Sheen/Free Product: none

Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0098-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2-12-13	Personnel	IBP, AKM	Weather	36° overcast
Site Name	SB915 Closure	Evacuation Method	Peristaltic pump	Well #	SB915-mw-1045
Site Location	Camillus, NY	Sampling Method	~~Purge~~ pump	Project #	48127

Well information:

Depth of Well * 25.97 ft.
Depth to Water * [redacted] ft. 9.75
Length of Water Column [redacted] ft.
[redacted] 16.22

* Measurements taken from
- [x] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1452

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Dens-ty
0	13.00	7.59	10.06	>100	-159	3.05	>1000	900	1.068
5	18.10	9.22	8.06	>100	-12	1.35	893	940	
10	19.95	9.13	7.51	>100	0.0	1.73	>1000	800	
15	21.16	9.79	7.06	>100	5	6.04	>1000	800	1.066
20	22.35	9.85	6.75	>100	30	0.61	604	800	
25	23.65	9.64	6.57	>100	42	5.04	>1000	750	1.066
30	24.70	9.96	6.46	>100	45	0.35	>1000	680	1.068
2-13-13	Collected sample using Peristaltic Pump.								

End Purge Time: 1529

Water sample: 2-13-13 @ 1300 (JB)
Time collected: ~~NA - purged only~~

Density Measurement Start 1.068 End 1.068
Total volume of purged water removed: ~6.5 gallons

Physical appearance at start
Color Murky grey
Odor none
Sheen/Free Product None

Physical appearance at sampling (JB)
Color clear ~~Grey/brown murky~~
Odor no
Sheen/Free Product no

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0093-05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/19/13	Personnel	JMN	Weather	40's Overcast
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-104I
Site Location	Camillus, NY	Sampling Method	Grab	Project #	48127

Well information:

Depth of Well *	75.23	ft.
Depth to Water *	27.61	ft.
Length of Water Column	47.62	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0917

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SG
0	27.58	9.59	7.31	1.06	194	1.58	71000	300	1.002
5	27.58	9.60	7.41	1.05	155	0.51	71000	260	1.002
10	27.58	9.91	7.42	1.04	144	0.28	71000	260	1.001
15	27.58	10.29	7.43	1.04	134	0.19	71000	260	1.001
20	27.58	10.54	7.44	1.04	158	0.12	71000	200	1.001
25	27.58	10.80	7.43	1.04	146	0.08	71000	320	1.001
30	27.58	10.82	7.45	1.04	128	0.02	763	320	1.001
35	27.57	10.85	7.45	1.03	120	0.00	639	320	1.001
40	27.57	10.80	7.46	1.03	110	0.00	506	320	1.001
45	27.57	10.84	7.47	1.03	103	0.00	413	320	—
50	27.57	10.88	7.47	1.03	97	0.00	346	320	—
55	27.57	10.90	7.47	1.03	94	0.00	259	320	—
60	27.57	10.93	7.48	1.03	92	0.00	197	320	1.001
65	27.57	10.87	7.48	1.04	90	0.00	139	340	1.001
70	27.57	10.84	7.48	1.04	90	0.00	116	340	—
75	27.57	10.79	7.48	1.04	89	0.00	88.5	340	—
80	27.57	10.72	7.48	1.04	88	0.00	74.1	340	—
83	27.57	10.70	7.48	1.04	87	0.00	75.4	340	—

End Purge Time: 1120

Water sample:

Time collected: 1044

Physical appearance at start

Color: Cloudy brown

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.002 End 1.001

Total volume of purged water removed: 7 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0097-01

SB915-0097-02 FD

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2-19-13	Personnel	JWB, PAF	Weather	~40°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	SB915-MW-105BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	65.00	ft.
Depth to Water *	49.40	ft.
Length of Water Column	15.60	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0950

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	49.40	9.10	6.30	0.710	184	1.64	65.1	400	1.002
5	49.42	9.75	6.55	0.706	174	0.00	49.3	560	
10	49.41	11.09	6.76	0.700	139	0.00	33.9	480	
15	49.41	11.52	6.88	0.699	113	0.00	27.3	480	
20	49.41	11.63	6.90	0.701	98	0.00	22.7	480	
25	49.41	11.72	6.93	0.703	83	0.00	20.1	480	
* 30	49.41	11.46	6.47	1.02	100	0.15	18.7	480	
35	49.41	11.92	6.81	1.01	67	0.00	15.8	480	
40	49.41	11.97	6.93	1.01	56	0.00	14.7	480	
45	49.41	11.80	6.00	1.01	52	0.00	12.0	480	
50	49.41	11.83	7.04	1.01	48	0.00	10.6	480	
53	49.41	11.84	7.06	1.01	47	0.00	8.12	480	

* Switched to U-52 water quality meter

End Purge Time: 1045

Water sample:

Time collected: 1100

Physical appearance at start

Color: clear

Odor: no

Sheen/Free Product: no

Density Measurement Start 1.002 End 1.000

Total volume of purged water removed:

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0097-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/5/13	Personnel	NVogan	Weather	~10° clear
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-106I
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	48127

Well information:

Depth of Well *	44.82	ft.
Depth to Water *	8.70	ft.
Length of Water Column	36.12	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0937

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	9.47	9.65	6.36	2.49	186	3.80	[illegible] 250	280	
3	9.58	9.87	6.63	3.85	140	1.21	[illegible] 219	[illegible] 240	
10	9.60	9.79	6.75	5.20	100	0.00	259	250	
15	9.67	9.91	6.67	8.58	83	0.00	278	250	
20	9.67	9.96	6.56	17.1	68	0.00	307	250	
25	9.70	9.93	6.68	19.7	46	0.00	170	250	1.006
30	9.71	9.88	6.84	21.1	30	0.00	94.3	250	
35	9.71	9.87	6.88	22.4	20	0.00	46.4	250	
40	9.74	10.06	6.94	22.7	9	0.00	26.0	250	
45	9.74	10.00	6.98	24.5	3	0.00	19.3	250	
50	9.75	9.94	7.02	25.5	-5	0.00	10.1	250	
55	9.75	9.96	7.04	26.4	-10	0.00	7.96	250	
60	9.76	10.06	7.05	27.4	-13	0.00	5.99	250	
63 *	9.76	10.06	7.14	28.5	-15	0.00	7.18	250	1.012
66	9.76	10.09	7.12	28.7	-16	0.00	6.54	250	
69	9.76	10.10	7.09	29.4	-18	0.00	5.94	250	
72	9.76	10.09	7.10	29.8	-19	0.00	5.35	250	
75	9.76	10.14	7.07	30.8	-20	0.00	6.04	250	
78	9.77	10.05	7.07	31.0	-21	0.00	5.88	250	
81	9.77	10.06	7.06	33.0	-21	0.00	5.83	250	1.014
84	9.78	10.07	7.06	33.7	-22	0.00	5.76	250	

End Purge Time: 1122

Water sample:

Time collected: 1105

Physical appearance at start

Color: clear

Odor: no

Sheen/Free Product: no

Density Measurement Start 1.001 End 1.016

Total volume of purged water removed: ~6 gallons

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron:	NA
Dissolved total iron:	NA
Dissolved total manganese:	NA
Dissolved Oxygen:	NA

Analytical Parameters: SB915-0086-04

* Power off Horiba, pH reset

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/6/13	Personnel	JAK	Weather	overcast, snowy ~20°F
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-107S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 22.47 ft.
Depth to Water * 3.44 ft.
Length of Water Column 19.03 ft.

* Measurements taken from
- X — Top of Well Casing
- Top of Protective Casing
- (Other, Specify)

Start Purge Time: 0920

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	4.23	8.07	5.67	59.3	190	1.61	141	200	1.026
5	4.61	7.26	5.76	60.7	165	0.41	135	100	1.030
10	4.73	6.22	5.83	61.1	141	0.00	116	110	
15	4.74	5.63	5.86	61.1	130	0.00	108	100	
20	4.74	5.13	5.88	61.1	120	0.00	117	100	1.030
25	4.81	5.14	5.89	60.8	117	0.00	106	100	1.030
30	4.82	5.07	5.90	61.0	112	0.00	102	100	
35	4.84	5.00	5.92	61.3	108	0.00	106	100	1.030
40	4.82	4.81	5.93	61.6	105	0.00	86.4	100	
45	4.88	4.80	5.94	61.5	102	0.00	83.8	100	
50	4.89	4.74	5.95	61.7	100	0.00	76.4	100	1.032
55	4.90	4.78	5.96	61.9	97	0.00	72.1	100	
60	4.89	5.19	5.96	61.7	94	0.00	65.8	100	
65	4.92	5.11	5.98	62.4	92	0.00	56.7	100	1.032
70	4.95	5.32	5.98	62.1	91	0.00	49.3	100	
75	4.97	4.96	6.00	62.9	89	0.00	47.4	100	1.032
80	4.98	4.92	6.00	62.6	89	0.00	48.5	100	

End Purge Time: 1145

Water sample:

Time collected: 1040

Physical appearance at start
- Color: Cloudy - Light Brown
- Odor: None
- Sheen/Free Product: None

Density Measurement Start 1.030 End 1.032

Total volume of purged water removed: ~ 2.0 gal

Physical appearance at sampling
- Color: Clear
- Odor: None
- Sheen/Free Product: None

Field Test Results:
- Dissolved ferrous iron:
- Dissolved total iron:
- Dissolved total manganese:
- Dissolved Oxygen:

SB915-0087-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/6/13	Personnel	JAK	Weather	Sunny ~20°F
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-107I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	57.16	ft.
Depth to Water *	7.56	ft.
Length of Water Column	49.60	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: ~~1306~~ 1315

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SPG
0	7.60	8.87	6.69	12.1	40	0.87	31.8	440	1.008
5	7.60	9.45	6.54	12.8	34	0.00	8.56	440	
10	7.60	9.59	6.51	13.1	34	0.00	18.4	440	1.006
15	7.60	9.63	6.50	13.1	33	0.00	14.2	440	
20	7.60	9.85	6.47	13.0	31	0.00	10.1	440	
25	7.60	9.57	6.47	13.0	31	0.00	10.0	440	1.006
30	7.60	9.59	6.47	12.9	30	0.00	5.68	440	
35	7.60	9.72	6.46	12.9	29	0.00	8.88	440	1.006

End Purge Time: 1350

Water sample:

Time collected: 1400

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.008 End 1.006

Total volume of purged water removed: ~5.0 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0087-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/6/13	Personnel	TJP	Weather	Sunny 20's
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-107D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	107.95	ft.
Depth to Water *	9.40	ft.
Length of Water Column	98.55	ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1350

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	9.50	6.99	7.24	5206	46	2.17	2508	300	1.070
5	9.50	8.75	6.23	7100	82	.50	1041	300	
10	9.50	8.89	6.24	7100	70	.26	677	300	
15	9.50	9.05	6.25	7100	66	.20	450	300	
20	9.50	9.11	6.26	7100	64	.18	341	300	
25	9.50	9.09	6.27	7100	63	.15	235	300	
30	9.50	8.92	6.27	7100	62	.11	228	300	
35	9.50	8.94	6.27	7100	62	.09	206	300	
~~38~~ 40	9.50	8.95	6.28	7100	61	.07	182	300	
~~41~~ 45	9.50	8.98	6.28	7100	61	.06	170	300	
44	9.50	9.01	6.28	7100	60	.06	133	300	

End Purge Time: 1435

Water sample:
Time collected: 1455

Physical appearance at start
Color: Clear
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.070 End 1.082

Total volume of purged water removed: ~ 5 gal

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/6/13	Personnel	TBP	Weather	26° F windy Snow
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-107BR
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	133.55	ft.
Depth to Water *	19.07	ft.
Length of Water Column	114.48	ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 9:33

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	45	11.56	5.51	+/-100	115	.96	67.3	200
5	45.81	8.84	5.41	+/-100	127	.28	56.0	120
10	45.67	8.52	5.43	+/-100	124	.19	55.3	120
15	45.55	8.35	5.56	+/-100	118	.17	77.8	180
20	45.55	8.33	5.66	+/-100	108	.19	70.6	180
25	45.55	8.46	5.71	+/-100	103	.16	79.4	180
30	45.47	8.11	5.73	+/-100	102	.13	70.1	180
35	45.42	8.33	5.73	+/-100	101	.12	56.9	180
40	45.32	8.43	5.73	+/-100	101	.11	77.6	180
45	45.31	8.43	5.73	+/-100	102	.12	40.8	180
50	45.40	8.71	5.74	+/-100	101	.08	43.2	180
55	45.35	8.67	5.74	+/-100	101	.07	39.1	180
60	45.31	8.46	5.73	+/-100	102	.05	30.1	180
63	45.21	8.56	5.74	+/-100	101	.05	31.7	180
66	45.20	8.58	5.74	+/-100	101	.04	29.2	180

1.130

End Purge Time: 10:40

Water sample:

Time collected: 11:15

Physical appearance at start

Color: Clear

Odor: NONE

Sheen/Free Product: NONE

SB915-0087-02

Density Measurement Start 1.130 End 1.130

Total volume of purged water removed: ~9 gal

Physical appearance at sampling

Color: Clear

Odor: NONE

Sheen/Free Product: NONE

Field Test Results:

Dissolved ferrous iron: ____

Dissolved total iron: ____

Dissolved total manganese: ____

Dissolved Oxygen: ____

* purged well to 5'1 Before taking Readings

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2.5.13	Personnel	TBD	Weather	
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-106S
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	19.98	ft.
Depth to Water *	4.05	ft.
Length of Water Column	15.93	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 9:28

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	4.89	10.11	6.40	2.21	173	4.46	8.84	400	1.002
5	5.79	9.67	6.82	1.39	130	3.99	13.5	360	
10	5.80	8.81	7.07	.761	131	4.65	10.3	240	
15	5.79	8.32	7.18	.691	137	4.69	8.10	240	
20	5.72	8.12	7.24	.657	139	4.61	6.34	240	
25	5.72	8.04	7.29	.635	138	4.51	5.86	240	
30	5.75	7.94	7.34	.602	137	4.32	4.27	240	
35	5.77	7.83	7.42	.575	137	4.06	3.21	240	
38	5.80	7.83	7.43	.572	137	3.90	2.38	240	
41	5.84	7.79	7.46	.561	138	3.80	1.74	240	
44	5.85	7.75	7.76	.545	137	3.93	1.88	240	
47	5.89	7.76	7.50	.542	136	3.93	1.32	240	
50	5.89	7.67	7.52	.532	136	3.85	1.18	240	
53	5.91	7.63	7.54	.524	137	3.78	1.24	240	
56	5.93	7.75	7.55	.526	135	3.73	.99	240	

End Purge Time: 10:30

Water sample:

Time collected: 11:22

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.002 End 1.002

Total volume of purged water removed: ~5 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0086-01

SB915-0086-02

SB915-0086-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2-11-13	Personnel	JWB	Weather	
Site Name	SB915 Closure	Evacuation Method	NA	Well #	SB915-MW-108S
Site Location	Camillus, NY	Sampling Method	NA	Project #	48127

Well information:

Depth of Well *	26.95 ft.	* Measurements taken from	
Depth to Water *	25.45 ft.	X	Top of Well Casing
Length of Water Column	1.50 ft.		Top of Protective Casing
			(Other, Specify)

*Well not sampled, not enough water & well does not produce water

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)

End Purge Time: _____

Water sample:

Time collected: _____

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start _____ End _____

Total volume of purged water removed: _____

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/11/13	Personnel	AKM	Weather	Sunny 40°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-108D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	64.85	ft.
Depth to Water *	29.09	ft.
Length of Water Column	35.76	ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1345

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	29.15	10.98	6.88	0.775	10	0.00	378	560	1.001
5	29.15	11.09	6.83	0.777	7	0.00	251	500	1.001
10	29.18	11.73	6.79	0.778	-5	0.00	251	300	1.001
1400 15	29.18	11.57	6.78	0.779	-6	0.00	93.6	360	
20	29.15	11.82	6.69	0.787	-5	0.00	63.0	300	1.001
25	29.15	11.77	6.78	0.791	-11	0.00	42.6	280	
30	29.15	11.50	6.77	0.793	-12	0.00	35.1	280	1.001
35	29.15	11.31	6.73	0.794	-11	0.00	25.4	300	
40	29.15	11.45	6.70	0.794	-11	0.00	23.3	280	1.001
45	29.15	11.57	6.68	0795	-11	0.00	19.2	300	
50	29.15	11.62	6.67	0796	-11	0.00	16.2	300	1.001
55	29.15	11.60	6.67	0.797	-11	0.00	15.5	300	1.001

End Purge Time: 1440

Water sample:

Time collected: 1453

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.001 End 1.001

Total volume of purged water removed: 7 gallons

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0091-10

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/11/2013	Personnel	PAF	Weather	Mostly Sunny, mid 30's
Site Name	SB915 Closure	Evacuation Method	Geotech Peri-Flo 2	Well #	SB915-MW-108BR
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well * 94.76 ft.
Depth to Water * 20.84 ft.
Length of Water Column 73.92 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1356

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	20.84	9.96	7.81	3.56	-53	1.25	710000	400
3	22.54	10.01	7.49	3.47	-44	0.38	>1000	400
6	23.67	10.05	7.34	3.45	-36	0.30	763	400
9	23.49	10.09	7.21	3.43	-29	0.14	434	280
12	23.51	10.06	7.17	3.43	-29	0.12	414	300
15	23.53	10.05	7.13	3.42	-29	0.06	397	300
20	23.61	10.18	7.10	3.42	-32	0.00	333	300
25	23.64	10.29	7.06	3.42	-31	0.00	187	300
30	23.67	10.31	7.04	3.42	-30	0.00	114	300
35	23.65	10.36	7.01	3.41	-29	0.00	71.5	300
40	23.68	10.36	7.00	3.41	-29	0.00	66.7	280
45	23.70	10.32	6.99	3.42	-28	0.00	101	280
50	23.73	10.34	6.96	3.41	-27	0.00	57.3	280
55	23.73	10.34	6.95	3.42	-26	0.00	52.2	280
60	23.70	10.32	6.94	3.41	-26	0.00	55.3	280
65	23.73	10.30	6.93	3.41	-26	0.00	44.4	280
68	23.73	10.30	6.93	3.40	-26	0.00	41.8	280
71	23.75	10.28	6.92	3.41	-26	0.00	34.9	280
74	23.74	10.28	6.92	3.40	-25	0.00	34.6	280
77	23.75	10.27	6.92	3.40	-25	0.00	31.2	280

End Purge Time: 1513

Water sample:

Time collected: 1525

Physical appearance at start
Color Tan
Odor None
Sheen/Free Product None

Density Measurement Start 1.012 End 1.006

Total volume of purged water removed:

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0091-11

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2-12-13	Personnel	TBP	Weather	Cloudy 30's
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-1095-mw-1095
Site Location	Camillus, NY	Sampling Method		Project #	48127

Well information:

Depth of Well *	15.41	ft.
Depth to Water *	3.16	ft.
Length of Water Column	12.25	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1020

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	3.20	8.16	11.22	37.1	24	2.76	16.5	480	1.016
5	3.20	8.30	13.47	36.6	-121	0.00	9.23	480	
10	3.20	8.29	13.51	36.6	-138	0.00	6.37	480	
15	3.20	8.36	13.54	36.5	-158	0.00	6.31	480	
20	3.20	8.46	13.54	36.5	-163	0.00	4.23	480	
25	3.20	8.41	13.55	36.5	-170	0.00	3.47	480	
30	3.20	8.56	13.11	36.5	-177	0.00	3.17	480	
35	3.20	8.52	13.39	36.7	-174	0.00	3.42	480	
40	3.20	8.54	13.50	36.7	-178	0.00	2.86	480	
45	3.20	8.58	13.52	36.7	-178	0.00	3.01	480	
50	3.20	8.55	13.54	36.8	-179	0.00	2.76	450	

End Purge Time: 11:11

Water sample:

Time collected: 11:25

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.016 End 1.016

Total volume of purged water removed: ~6.5gal

Physical appearance at sampling

Color: clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0092-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/12/13	Personnel	DwB	Weather	~32°F Cloudy/windy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-109I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	54.42	ft.
Depth to Water *	16.56	ft.
Length of Water Column	37.86	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1020

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	17.50	8.21	5.71	50.0	121	3.11	97.3	240	1.024
5	18.01	9.40	8.00	63.7	-174	0.55	80.6	140	
10	18.11	9.49	8.23	64.0	-194	0.35	39.7	140	
15	18.31	9.42	8.55	64.9	-217	0.16	90.8	140	
20	18.48	9.51	8.79	65.4	-227	0.06	205	140	
25	18.55	9.46	8.74	65.6	-230	0.00	303	140	
30	18.62	9.64	8.68	65.2	-231	0.00	272	140	
35	18.68	9.61	8.56	64.4	-229	0.00	250	140	
40	18.71	9.64	8.40	63.1	-224	0.00	195	140	
45	18.75	9.43	8.28	62.0	-219	0.00	170	140	
50	18.73	9.52	8.22	60.4	-218	0.00	132	140	
55	18.72	9.54	8.18	60.2	-218	0.00	1299.5	140	
60	18.72	9.49	8.12	59.1	-215	0.00	80.5	140	
65	18.75	9.44	8.06	58.1	-212	0.00	63.9	140	
70	18.75	9.47	7.94	56.5	-206	0.00	49.2	140	
75	18.75	9.52	7.93	56.3	-205	0.00	45.8	140	
80	18.73	9.39	7.86	55.3	-200	0.00	37.3	140	
85	18.73	9.47	7.83	54.8	-198	0.00	30.1	140	
90	18.73	9.30	7.78	54.0	-195	0.00	24.2	140	
95	18.73	9.42	7.76	53.6	-193	0.00	19.1	140	
100	18.73	9.42	7.73	53.1	-191	0.00	18.8	140	
103	18.73	9.47	7.72	52.4	-190	0.00	15.7	140	
106	18.73	9.53	7.71	52.8	-189	0.00	15.0	140	1.022

End Purge Time: 1206

Water sample:

Time collected: 1230

Physical appearance at start

Color: Clear

Odor: No

Sheen/Free Product: NO

Density Measurement Start 1.024 End 1.022

Total volume of purged water removed: ~5 gallons

Physical appearance at sampling

Color: Clear

Odor: No

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0092-05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/14/13	Personnel	JBP	Weather	~35°F
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-110S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	20.20	ft.
Depth to Water *	3.79	ft.
Length of Water Column	16.41	ft.

* Measurements taken from

x	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 11:15

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
* 0	5.27	7.63	8.34	3.66	-229	3.54	323	640
5	5.33	7.60	7.59	3.02	-145	.16	30.0	560
10	5.33	7.27	7.34	3.19	-114	.00	21.7	500
15	5.36	7.19	7.24	3.42	-105	.00	21.1	500
20	5.39	7.14	7.15	3.53	-100	.00	23.3	500
25	5.40	7.14	7.08	3.56	-95	.00	23.6	500
30	5.42	7.09	7.03	3.62	-92	.00	20.9	500
35	5.45	7.14	6.98	3.63	-90	.00	19.1	500
40	5.46	7.14	6.95	3.64	-89	.00	20.5	500

End Purge Time: 11:57

Water sample:
Time collected: 1210

Density Measurement Start 1.004 End 1.004

Total volume of purged water removed: 6gal

Physical appearance at start
Color: Cleare
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

* DTW Taken From top of Protective casing

SB915-0094-05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2/8/13	Personnel	JAK	Weather	overcast ~20°F
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-1115
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	24.40	ft.
Depth to Water *	8.40	ft.
Length of Water Column	16.00	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1015

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	8.89	8.33	5.81	59.3	-13	1.06	6.38	280	
5	8.91	8.90	6.48	64.2	-33	3.72	7.58	220	1.030
10	8.92	8.66	6.54	65.2	-32	3.17	8.05	230	
15	8.90	8.49	6.56	65.8	-32	3.23	34.6	220	1.032
20	8.88	8.47	6.57	65.2	-33	0.00	48.8	220	
25	8.88	8.18	6.58	63.1	-34	0.00	54.7	220	1.030
30	8.86	7.76	6.59	60.7	-35	0.00	42.8	220	1.026
35	8.85	7.49	6.59	57.7	-35	0.00	43.1	230	
40	8.84	7.25	6.62	54.2	-38	0.33	26.2	230	1.024
45	8.83	7.08	6.65	51.9	-40	0.80	29.7	230	
50	8.84	6.96	6.67	50.1	-42	0.00	18.6	240	1.020
55	8.83	6.84	6.70	48.2	-44	0.00	17.8	240	
60	8.81	6.75	6.72	46.8	-45	0.00	15.2	240	1.020
65	8.80	6.67	6.74	44.4	-47	0.00	11.8	240	
70	8.80	6.57	6.77	42.6	-48	0.00	12.0	240	
75	8.80	6.53	6.78	41.9	-49	0.00	12.3	240	1.018
80	8.80	6.49	6.80	41.0	-50	0.00	10.0	240	
85	8.80	6.48	6.80	40.8	-50	0.00	12.0	240	
90	8.80	6.48	6.81	40.3	-51	0.00	9.74	240	1.016

End Purge Time: 1145

Water sample:

Time collected: 1205

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.030 End 1.016

Total volume of purged water removed:

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0090-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/8/13	Personnel	TBP	Weather	30's cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-11I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 66.10 ft.
Depth to Water * 8.16 ft.
Length of Water Column 57.94 ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 10:25

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	~~8.55~~ 8.22	8.85	~~5.03~~	85.0	119	2.86	447	440	1.050
5	8.26	9.80	5.96	92.7	24	.20	176	440	
10	8.26	9.77	6.01	92.7	12	0.00	82.8	440	
15	8.26	9.43	6.10	92.5	9	0.00	57.5	200	
20	8.26	9.25	6.13	92.9	5	0.00	48.2	200	1.050
25	8.25	8.74	6.17	93.3	2	0.00	31.8	200	
30	8.25	8.75	6.20	93.0	-1	0.00	25.7	200	
35	8.25	9.00	6.21	92.7	-3	0.00	22.7	200	
40	~~8.25~~ 8.25	8.95	6.23	92.3	-5	0.00	21.6	200	
45	8.25	8.08	6.24	92.8	-6	0.00	17.5	200	
50	8.25	9.16	6.26	92.8	-8	0.00	19.5	200	
55	8.25	9.05	6.27	92.9	-9	0.00	14.7	200	
60	8.25	9.97	6.25	92.6	-11	0.00	12.2	200	
65	8.25	10.00	6.32	92.6	-7	0.00	14.4	200	
70	8.25	10.01	6.31	92.5	-8	0.00	12.8	200	

End Purge Time: 11:09

Water sample:
Time collected: 11:53

Physical appearance at start
Color: Slightly cloudy
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.050 End 1.050
Total volume of purged water removed: ~69 gal

Physical appearance at sampling
Color: Clear
Odor: NONE
Sheen/Free Product: NONE

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB915-0090-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2.8.13	Personnel	JK, JB	Weather	~30°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-111D
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	48127

Well information:

Depth of Well *	99.02	ft.
Depth to Water *	6.86	ft.
Length of Water Column	92.16	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1045

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	7.08	9.81	5.54	>100.0	58	0.64	>1000	280	1.065
5	7.08	9.92	5.61	>100.0	42	0.47	>1000	500	
10	7.08	9.99	5.65	>100.0	24	0.26	### 179	500	
15	7.08	10.01	5.68	>100.0	19	0.21	80.2	500	
20	7.08	10.07	5.71	>100.0	16	0.19	48.6	500	
25	7.08	10.01	5.74	>100.0	12	0.13	26.7	500	
30	7.08	10.02	5.75	>100.0	11	0.08	24.1	500	
35	7.08	10.00	5.76	>100.0	10	0.05	20.7	500	
40	7.08	10.09	5.77	>100.0	9	0.02	16.0	500	
45	7.08	10.06	5.77	>100.0	9	0.02	14.3	500	
50	7.08	10.14	5.78	>100.0	8	0.02	13.5	500	
55	7.08	10.09	5.78	>100.0	8	0.02	9.9	500	

End Purge Time: 1140

Water sample:

Time collected: 1200

Physical appearance at start

Color: Clear - quickly formed brown

Odor: No

Sheen/Free Product: No

Density Measurement Start 1.065 End 1.074

Total volume of purged water removed: ~9 gallons

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0090-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/8/13	Personnel	KSK	Weather	Overcast ~30°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-111BR
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well *	142.75	ft.
Depth to Water *	11.96	ft.
Length of Water Column	130.79	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1025

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	13.46	8.89	6.41	0.00	253	4.96	52.1	240	1.056
5	14.55	8.15	5.57	44.4	125	2.04	27.6	180	1.110
10	15.57	7.83	5.26	39.1	120	1.03	53.9	200	1.114
15	17.50	7.85	5.33	38.9	32	0.00	211	340	1.116
20	19.42	8.91	5.46	20.9	5	0.00	79.0	240	1.118
25	21.11	9.35	5.51	23.0	-8	0.00	54.6	320	1.118
30	21.48	8.60	5.55	16.0	-12	0.00	50.6	180	1.202
35	21.47	7.96	5.56	24.7	-16	0.00	104	140	1.200
40	21.50	7.84	5.57	22.5	-17	0.00	94.9	140	1.200
45	21.47	7.68	5.57	26.4	-16	0.00	140	140	
50	21.50	7.66	5.58	29.1	-16	0.00	101	140	1.200
55	21.50	7.08	5.58	41.9	-16	0.00	163	160	1.200
60	21.54	6.68	5.59	34.0	-13	0.00	126	140	
65	21.51	6.56	5.60	30.7	-12	0.00	191	120	
70						0.00	53	120	1.200
75	21.38	6.25	5.54	36.0	-10	0.00	83	120	1.200
80	21.57	6.19	5.54	21.7	-9	0.00	76	140	1.200
85	21.60	6.16	5.56	23.9	-9	0.00	23.5	120	
90	21.59	6.17	5.56	27.9	-9	0.00	96.4	120	1.200
95	21.58	6.18	5.55	29.9	-8	0.00	29.4	140	1.202
100	21.55	6.23	5.55	23.4	-7	0.00	20.3	120	
105	21.54	6.28	5.53	26.7	-7	0.00	24.2	120	1.202

End Purge Time: 1210

Water sample: SB915-0090-04

Time collected: 1300

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.056 End 1.200

Total volume of purged water removed: 5 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2-14-13	Personnel	JWB	Weather	~35°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-112S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	20.06	ft.
Depth to Water *	14.55	ft.
Length of Water Column	5.51	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0940

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density 1.004
0	14.80	4.38	5.39	11.1	299	5.25	30.3	150	
5	15.00	9.71	5.82	11.1	274	4.93	22.8	150	
10	15.13	9.93	6.44	11.0	246	3.84	13.6	150	
15	15.43	10.17	7.55	10.3	195	3.38	11.7	150	
20	15.54	10.02	7.79	10.4	180	1.16	7.70	140	
25	15.61	9.73	7.92	10.8	166	1.07	7.49	140	
30	15.70	9.55	7.95	11.3	161	0.57	14.7	140	
35	15.71	9.52	7.97	11.3	161	0.40	14.2	140	
40	15.75	9.70	7.96	11.4	162	0.06	13.9	140	
45	15.81	9.71	7.95	11.6	162	0.00	9.63	140	
50	15.85	9.77	7.93	11.7	162	0.00	7.96	140	
55	15.90	9.74	7.90	11.8	162	0.00	6.26	140	
60	15.91	9.72	7.88	12.0	161	0.00	5.20	140	
65	15.97	9.72	7.85	12.1	156	0.00	4.09	140	
70	16.00	9.89	7.83	12.1	155	0.00	3.49	140	
80	16.05	9.91	7.80	12.2	143	0.00	2.90	140	
85	16.10	9.88	7.80	12.3	134	0.00	3.28	140	
88	16.10	9.86	7.79	12.3	129	0.00	2.91	140	
91	16.10	9.89	7.79	12.4	121	0.00	2.02	140	
94	16.10	9.90	7.79	12.4	120	0.00	2.07	140	

End Purge Time: 1115

Water sample:

Time collected: 1205

Physical appearance at start

Color: Clear

Odor: No

Sheen/Free Product: No

Density Measurement Start 1.004 End 1.004

Total volume of purged water removed: ~4.0 gallons

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0094-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2-14-13	Personnel	AKM	Weather	33° overcast
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-MW-112I
Site Location	Camillus, NY	Sampling Method	low Flow	Project #	48127

Well information:

Depth of Well * 58.54 ft.
Depth to Water * 13.10 ft.
Length of Water Column 45.44 ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1030

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	16.10	9.01	9.25	82.5	-84	0.00	>1,000	500	1.040
5	16.14	10.02	7.75	83.9	4	0.00	>1,000	400	
10	16.14	9.92	7.48	84.2	8	0.00	>1,000	300	1.050
15	16.14	9.40	7.30	85.5	10	0.00	946	100	
20	16.14	9.51	7.25	84.8	14	0.00	>1000	200	1.050
25	16.14	9.35	7.13	85.4	17	0.00	387	200	
1100 30	16.14	9.47	7.08	85.6	18	0.00	180	200	1.050
35	16.12	9.64	7.07	85.4	18	0.00	136	200	
40	16.12	9.81	7.03	85.3	20	0.00	75.2	220	1.050
45	16.12	9.93	7.00	85.2	22	0.00	65.7	220	
50	16.12	10.13	6.97	85.1	21	0.00	58.5	220	1.050
55	16.12	10.23	6.96	85.00	21	0.00	51.0	220	
60	16.13	10.28	6.95	85.0	20	0.00	46.8	220	1.050
65	16.13	10.54	6.94	84.6	21	0.00	42.4	220	
70	16.13	10.72	6.94	84.3	20	0.00	36.3	220	1.050
80	16.13	10.76	6.94	84.3	20	0.00	32.0	220	
85	16.13	10.82	6.93	84.2	20	0.00	28.2	220	1.050
90	16.13	10.85	6.93	84.1	20	0.00	23.4	220	
1200 95	16.13	10.77	6.93	84.2	20	0.00	20.8	220	1.052

End Purge Time: 1200

Water sample:
Time collected: 1210

Physical appearance at start
Color: Murky grey
Odor: none
Sheen/Free Product: none

Density Measurement Start 1.040 End 1.050
Total volume of purged water removed: ≈ 6.5

Physical appearance at sampling
Color: clear
Odor: none
Sheen/Free Product: none

Field Test Results:
Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB195-0094-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2.14.13	Personnel	TBP	Weather	~35°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-1135
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	29.40 ft.	* Measurements taken from	
Depth to Water *	10.46 ft.	X	Top of Well Casing
Length of Water Column	18.94 ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 9:10

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	11.29	11.50	11.71	27.8	-5	3.22	41.4	420
5	12.65	11.02	11.66	35.1	-163	2.07	124	360
10	12.65	10.83	11.27	38.5	-187	1.61	117	300
15	12.60	10.82	11.27	38.4	-217	1.26	89.7	300
20	12.60	10.76	11.31	38.3	-244	.95	80.3	300
25	12.60	10.72	11.32	38.4	-264	.72	58.6	300
30	12.55	10.71	11.32	38.1	-291	.44	59.3	300
35	12.54	10.73	11.32	37.7	-306	.31	53.7	300
40	12.54	10.70	11.33	37.2	-321	.19	56.7	300
45	12.54	10.69	11.34	37.4	-327	.14	53.6	300
50	12.58	10.73	11.33	37.7	-340	.05	59.3	300
55	12.50	10.77	11.35	37.6	-347	.02	62.9	300
60	12.50	10.63	11.34	37.9	-353	.00	57.4	300
65	12.50	10.75	11.36	37.7	-365	.00	59.5	300
70	12.51	10.73	11.37	37.7	-367	.00	58.2	300
75	12.50	10.77	11.37	37.8	-373	.00	59.7	300

End Purge Time: 10:27

Water sample:

Time collected: 1042

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.012 End 1.014

Total volume of purged water removed:

Physical appearance at sampling

Color: Clear

Odor: No

Sheen/Free Product: No

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0094-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/5/13	Personnel	NVogen	Weather	~20° sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915- MW-115BR
Site Location	Camillus, NY	Sampling Method	Peristaltic	Project #	48127

Well information:

Depth of Well *	90.92	ft.
Depth to Water *	8.45	ft.
Length of Water Column	82.47	ft.

* Measurements taken from

✓	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1300

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SP G
0	8.63	5.34	7.12	37.9	12	3.52	24.5	180	1.016
5	8.63	7.19	6.93	35.3	-3	0.00	7.55	180	
10	8.63	7.48	6.83	35.1	15	0.00	5.11	180	
15	8.67	7.99	6.80	35.0	22	0.00	6.61	220	
20	8.68	8.29	6.79	34.9	24	0.00	6.10	210	
25	8.69	8.28	6.79	34.8	25	0.00	9.35	210	1.016
30	8.70	8.30	6.80	34.6	27	0.00	12.9	210	
35	8.70	8.40	6.83	34.5	25	0.00	24.6	210	
38	8.73	8.55	6.81	34.5	25	0.00	28.9	220	
41	8.70	8.42	6.80	34.6	24	0.00	43.4	220	
46	8.71	8.18	6.80	34.6	24	0.00	36.0	180	
49	8.71	8.17	6.80	34.6	23	0.00	27.2	180	1.016
52	8.71	8.04	6.80	34.6	23	0.00	23.7	180	

End Purge Time: 1355

Water sample:

Time collected: 1400

Physical appearance at start

Color	clear
Odor	sulfur
Sheen/Free Product	no

Density Measurement Start 1.016 End 1.022

Total volume of purged water removed: ~3.5 gallons

Physical appearance at sampling

Color	clear
Odor	no
Sheen/Free Product	no

Field Test Results:

Dissolved ferrous iron:	NA
Dissolved total iron:	NA
Dissolved total manganese:	NA
Dissolved Oxygen:	NA

Analytical Parameters: SB915-0086-06 / SB915-0086-07 (Field dup)

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/6/13	Personnel	JwB	Weather	~15°F Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-1165
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	20.06	ft.
Depth to Water *	4.65	ft.
Length of Water Column	15.41	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0945

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	5.33	7.50	7.41	5.29	16	2.61	23.9	200	1.004
5	5.44	7.13	7.46	5.13	16	1.10	16.2	180	
10	5.48	6.32	7.74	2.91	90	2.27	18.1	180	
15	5.51	6.22	7.79	2.43	103	3.19	15.9	180	
20	5.55	6.33	7.74	2.28	105	2.85	14.1	180	
25	5.70	6.18	7.80	2.21	108	2.96	12.8	180	
30	5.71	6.69	7.78	2.14	107	2.47	9.63	180	
35	5.11	6.44	7.76	2.03	103	1.76	7.57	180	
40	5.72	6.71	7.76	1.95	100	1.40	6.45	180	
45	5.70	6.62	7.76	1.89	95	1.01	5.32	180	
50	5.70	6.61	7.76	1.82	41	0.92	4.28	180	
55	5.70	6.64	7.77	1.67	87	0.98	3.67	180	
60	5.70	6.59	7.77	1.65	86	0.75	3.41	180	
65	5.76	6.63	7.78	1.52	82	0.33	2.68	180	
70	5.76	6.81	7.78	1.50	80	0.29	2.92	180	
75	5.94	6.88	7.78	1.41	78	0.25	2.42	180	
1105 80	5.94	6.90	7.79	1.31	78	0.69	2.18	180	
83	5.94	6.99	7.79	1.29	77	1.42	2.14	200	
86	6.00	6.96	7.80	1.25	76	1.53	1.86	220	
89	6.08	6.86	7.81	1.19	74	1.77	2.09	240	
92	6.05	6.80	7.82	1.14	74	0.92	2.00	240	
95	6.03	6.80	7.81	1.17	74	1.34	1.95	240	
98	6.03	6.88	7.82	1.13	71	1.42	1.89	240	1.002

End Purge Time: 1125

Water sample:

Time collected: 1142

Physical appearance at start

Color: clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.004 End 1.002

Total volume of purged water removed: ~7.0 gallons

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0086-05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2.5.13	Personnel	JWB	Weather	~19° F Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-1175
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	26.00	ft.
Depth to Water *	7.89	ft.
Length of Water Column	18.11	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1255

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	8.80	9.73	7.23	22.6	47	1.91	—	180	1.010
5	9.20	9.53	7.18	23.7	43	1.09	36.4	180	
10	9.59	9.77	7.20	23.3	39	0.40	36.6	180	
15	9.89	10.23	7.20	23.2	31	0.21	71.5	180	
20	9.93	9.77	7.21	23.7	28	0.15	182	180	
25	9.95	9.85	7.23	23.5	28	0.05	301	180	
30	10.09	10.18	7.24	22.9	27	0.00	353	180	
~~33~~	10.15	10.06	7.25	22.8	26	0.00	398	180	
36	10.21	10.03	7.25	22.7	26	0.00	389	180	1.010
*	-well turbidity will increase to >1000 NTU based on previous sampling events								
	-Collect any sample before turbidity gets too high								
	-All other parameters stable								

End Purge Time: 1331

Water sample:

Time collected: 1355

Physical appearance at start

Color: clear

Odor: no

Sheen/Free Product: no

Density Measurement Start 1.010 End 1.010

Total volume of purged water removed: ~3 gallons

Physical appearance at sampling

Color: v. light brown

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0086-09

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/4/13	Personnel	TBP	Weather	20°S Windy
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-118S
Site Location	Camillus, NY	Sampling Method	Low - Flow	Project #	48127

Well information:

Depth of Well * 15.43 ft.
Depth to Water * 3.61 ft.
Length of Water Column 11.82 ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 11:00 AM

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	4.26	8.14	6.79	2.75	153	1.48	105	380	1.002
5	5.14	6.88	7.03	1.24	138	1.26	41.5	380	
10	5.30	6.70	6.95	1.54	141	1.54	32.8	300	
15	5.7	6.20	6.94	2.25	138	0.00	37.9	300	
20	5.86	6.33	6.95	2.40	132	0.00	35.8	300	
25	5.98	6.44	6.92	2.54	129	0.00	32.4	300	
30	6.1	6.39	6.90	2.68	126	0.00	33.1	280	
35	6.2	6.53	6.89	2.96	124	0.00	31.0	280	
40	6.32	6.70	6.90	2.84	121	0.00	22.8	280	
45	6.45	6.75	6.89	2.98	119	0.00	22.1	280	
50	6.54	6.75	6.90	3.06	117	0.00	16.9	280	
58 3	6.54	6.78	6.90	3.13	116	0.00	13.3	280	
56 ~~60 58~~	6.65	6.87	6.90	3.22	116	0.00	11.3	280	
59 ~~65 61~~	6.73	6.99	6.94	3.33	114	0.00	10.7	280	
62 ~~70 64~~	6.80	6.94	6.91	3.39	112	0.00	10.7	280	
65									

End Purge Time: 12:04

Water sample:
Time collected: 12:25

Density Measurement Start _____ End 1.002
Total volume of purged water removed: _____

Physical appearance at start
Color Clear
Odor None
Sheen/Free Product None

Physical appearance at sampling
Color Clear
Odor None
Sheen/Free Product None

Field Test Results:
Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

SB915-0085-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/4/13	Personnel	JAK	Weather	~19°F Snow
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-MW-118BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	59.88	ft.
Depth to Water *	2.88	ft.
Length of Water Column	57.00	ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1108

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	SPG
0	2.91	7.43	6.31	11.3	28	0.77	770	250	
5	2.90	8.03	6.61	11.6	1	0.00	421	200	1.008
10	2.91	8.00	6.72	11.5	-4	0.00	239	200	
15	2.90	7.71	6.83	11.5	-10	0.00	205	200	1.006
20	2.90	7.38	6.90	11.7	-14	0.00	151	200	
25	2.90	7.25	6.93	11.8	-15	0.00	119	200	1.006
30	2.90	7.13	6.97	11.8	-18	0.00	89.2	200	
35	2.90	6.97	6.99	11.9	-19	0.00	68.6	200	1.006
40	2.90	6.79	7.01	12.0	-20	0.00	56.4	200	
45	2.90	6.71	7.02	12.1	-21	0.00	47.3	200	1.006
50	2.90	6.70	7.03	12.1	-22	0.00	40.6	200	
55	2.90	6.62	7.05	12.1	-22	0.00	27.1	200	1.006
60	2.90	6.60	7.05	12.1	-23	0.00	26.7	200	
65	2.90	6.53	7.06	12.2	-23	0.00	20.1	200	1.006
68	2.90	6.56	7.06	12.2	-24	0.00	19.6	200	
71	2.90	6.66	7.06	12.2	-24	0.00	19.6	200	1.006

End Purge Time: 1240

Water sample:

Time collected: 1211

Physical appearance at start

Color: ~~Clear~~ Cloudy

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.008 End 1.006

Total volume of purged water removed: ~ 3.5 gal.

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0085-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2.7.13	Personnel	KSK	Weather	Overcast ~25°F
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-PZ-07S
Site Location	Camillus, NY	Sampling Method	Peristaltic Pump	Project #	48127

Well information:

Depth of Well *	20.06	ft.
Depth to Water *	7.52	ft.
Length of Water Column	12.54	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0940

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	7.57	9.45	13.15	9.83	-1	3.95	2.34	400	1.006
5	~~7.74~~ 7.57	9.74	13.35	10.3	-66	2.79	5.06	400	1.004
10	7.57	9.75	13.37	10.4	-70	2.43	2.58	400	1.004
15	7.57	9.78	13.39	10.4	-71	2.13	1.44	400	1.004
20	7.57	9.76	13.40	10.4	-72	1.95	1.01	400	1.004
25	7.57	9.82	13.41	10.4	-71	1.75	1.04	400	1.004
30	7.57	9.81	13.41	10.4	-70	1.68	1.34	400	1.004
35	7.57	9.91	13.41	10.4	-69	1.60	2.39	400	1.004

End Purge Time: 1020

Water sample: SB915-0088-01

Time collected: 1030

Density Measurement Start 1.006 End 1.004

Total volume of purged water removed: 5 gal

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/7/13	Personnel	JAK	Weather	partly cloudy ~20°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-PZ-07I
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	42.10	ft.
Depth to Water *	24.04	ft.
Length of Water Column	18.06	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0940

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	25.34	9.55	12.67	60.9	-155	0.61	24.3	370	1.038
5	24.96	7.88	13.11	60.8	-196	0.00	28.2	160	
10	24.94	7.98	13.10	69.0	-204	0.00	24.1	220	
15	24.93	9.30	13.06	69.1	-212	0.00	26.4	220	1.034
20	24.92	9.74	13.05	70.9	-218	0.00	29.4	220	1.034
25	24.93	10.13	13.04	71.2	-221	0.00	28.2	220	
30	24.96	10.50	13.02	72.3	-225	0.00	22.2	220	1.036
35	24.97	10.95	13.01	72.9	-229	0.00	19.6	220	
40	24.95	10.91	13.02	74.1	-232	0.00	15.9	220	1.036
45	24.95	11.01	13.03	74.6	-236	0.00	14.3	220	
50	24.96	11.04	13.04	75.0	-239	0.00	11.1	220	1.038
55	24.96	11.18	13.04	75.1	-240	0.00	11.4	220	

End Purge Time: 1035

Water sample:

Time collected: 1055

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.038 End 1.038

Total volume of purged water removed: ~3.0 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0088-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2-7-13	Personnel	TBP	Weather	Sunny 30's
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915 PZ-07D
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	65.11	ft.
Depth to Water *	32.43	ft.
Length of Water Column	32.68	ft.

* Measurements taken from

- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 9:38

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	35.04	9.45	12.74	65.5	-77	.86	~~1030~~ 53.6	140	1.030
5	35.15	8.80	12.83	65.1	-147	.14	42.5	140	
10	35.20	7.83	12.88	65.3	-153	0.00	37.3	100	
15	35.20	7.25	12.90	62.7	-154	0.00	32.9	100	
20	35.21	6.67	12.91	63.7	-156	0.00	21.5	100	
25	35.21	6.53	12.92	63.9	-162	0.00	20.2	100	
30	35.19	6.41	12.92	64.2	-169	0.00	21.6	100	
35	35.15	6.24	12.92	64.4	-175	0.00	18.3	100	
40	35.15	6.19	12.94	64.7	-178	0.00	17.0	100	
45	35.15	6.04	12.95	65.3	-179	0.00	16.4	100	
50	35.15	5.86	12.95	66.0	-182	0.00	17.6	100	
55	35.15	5.85	12.95	66.1	-188	0.00	14.7	100	
60	35.15	5.94	12.95	66.0	-189	0.00	12.7	100	

End Purge Time: 10:40

Water sample:

Time collected: 1129

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.030 End 1.032

Total volume of purged water removed: ~ 2.5 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0088-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/13/13	Personnel	PAF	Weather	Sunny ~35°F
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-MW-09
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well * 20.05 ft.
Depth to Water * 7.60 ft.
Length of Water Column 13~~.~~45 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1159

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	7.60	11.01	6.67	30.8	40	3.12	51.1	400
3	8.55	10.81	6.45	29.2	96	0.00	67.0	280
10	8.89	10.92	6.45	28.9	106	0.00	54.5	240
15	8.99	10.92	6.45	28.8	107	0.00	46.1	220
20	9.22	10.82	6.45	28.8	97	0.00	30.2	200
25	9.32	10.75	6.43	28.7	85	0.00	24.0	200
30	9.41	10.76	6.42	28.7	78	0.00	18.6	180
33	9.49	10.45	6.42	28.7	74	0.00	17.2	180
36	9.54	10.42	6.41	28.8	72	0.00	16.6	180
39	9.63	10.46	6.40	28.8	71	0.00	15.8	180
42	9.69	10.60	6.39	28.8	70	0.00	10.9	~~180~~ 170
45	9.76	10.67	6.39	28.8	66	0.00	9.18	170
48	9.81	10.77	6.39	28.7	64	0.00	8.18	170
51	9.87	10.78	6.40	28.7	62	0.00	7.14	170
54	9.91	10.66	6.40	28.7	59	0.00	5.00	170
57	9.96	10.70	6.41	28.6	56	0.00	4.63	170
60	10.00	10.72	6.42	28.6	54	0.00	3.69	170
63	10.10	10.89	6.42	28.6	52	0.00	3.15	170
66	10.15	10.91	6.42	28.6	50	0.00	2.71	170
69	10.21	10.99	6.43	28.5	48	0.00	2.60	170
72	10.25	11.01	6.43	28.5	46	0.00	2.51	170

End Purge Time: 1231

Water sample:

Time collected: 1234

Physical appearance at start
Color: Clear, few particulates
Odor: None
Sheen/Free Product: None

Density Measurement Start 1.016 End 1.016

Total volume of purged water removed: ~4.5 gal

Physical appearance at sampling
Color: Clear
Odor: None
Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____
Dissolved total iron: _____
Dissolved total manganese: _____
Dissolved Oxygen: _____

SB915-0093~~12~~07

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2.18.13	Personnel	JWB	Weather	45°F Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-TMW-02S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	20.63 ft.	* Measurements taken from	
Depth to Water *	4.96 ft.	X	Top of Well Casing
Length of Water Column	15.67 ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: ~~0935~~ 1040

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	6.44	8.79	5.10	53.0	227	0.94	6.95	260	Density 1.022
5	7.25	8.69	5.77	53.7	147	0.00	257	260	
10	8.13	8.86	5.95	53.9	109	0.00	201	260	
15	8.81	8.87	6.03	54.6	92	0.00	(03) ~~200~~ 105	200	
20	8.60	8.44	6.06	55.1	82	0.00	77.9	200	
25	8.58	8.59	6.09	55.8	75	0.00	48.9	220	
30	8.60	8.84	6.11	55.7	70	0.00	39.9	220	
35	8.62	8.99	6.13	55.8	65	0.00	38.6	220	
40	8.64	9.32	6.15	56.1	60	0.00	40.1	200	
45	8.60	9.24	6.16	56.4	57	0.00	41.4	200	
50	8.56	9.47	6.17	56.4	52	0.00	45.9	200	
55	8.60	9.39	6.19	56.7	49	0.00	44.0	200	
60	8.62	9.28	6.20	56.9	47	0.00	48.5	200	
63	8.62	9.19	6.21	56.8	45	0.00	45.2	200	
66	8.62	9.51	6.21	56.7	44	0.00	48.7	200	
69	8.62	9.52	6.21	56.9	44	0.00	48.5	200	1.026

End Purge Time: 1150

Water sample:

Time collected: 1215

Physical appearance at start

Color: Med orangish brown

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.022 End 1.026

Total volume of purged water removed: ~40 gallons

Physical appearance at sampling

Color: clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0096-(03) 05

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/18/13	Personnel	PAF	Weather	Partly Sunny ~ 15° F
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915 IMW 03
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	26.10	ft.
Depth to Water *	8.15	ft.
Length of Water Column	17.95	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1050

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	8.15	8.25	5.07	66.5	109	5.71	14.3	380
5	10.19	10.46	5.99	68.0	-8	1.31	13.7	320
10	10.78	10.33	6.19	59.5	-30	0.82	19.6	300
15	11.10	10.07	6.36	52.5	-39	0.56	23.2	300
20	11.44	9.66	6.44	52.1	-39	0.44	25.8	290
25	11.49	9.18	6.45	53.8	-37	0.00	24.0	200
30	11.56	9.09	6.45	54.5	-37	0.00	27.5	200
35	11.56	9.34	6.45	55.0	-38	0.00	27.7	200
40	11.58	9.62	6.45	56.0	-40	0.01	25.8	200
45	11.57	9.70	6.45	57.1	-41	0.00	22.6	200
50	11.58	10.12	6.45	57.2	-42	0.00	21.6	200
55	11.59	10.05	6.45	57.9	-44	0.00	18.7	200
60	11.58	10.15	6.45	58.4	-45	0.00	19.7	200
65	11.59	9.92	6.45	59.1	-46	0.00	18.8	200

End Purge Time: 1137

Water sample: SB915 0096-02

Time collected: 1300

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1038 End 1038

Total volume of purged water removed: 4.5 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

SB915-0096-02

SB915-0096-03 (MS)

SB915-0096-04 (MSD)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/18/13	Personnel	SJW	Weather	20/Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-IMW-04S
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	48127

Well information:

Depth of Well *	17.75	ft.
Depth to Water *	9.07	ft.
Length of Water Column	8.68	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 10:15

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
1017 0	9.59	7.53	6.109	10.6	-54	0.80	6.68	320	1.008
1022 5	9.69	7.56	6.76	10.6	-63	0.56	5.38	360	
10	9.79	7.52	6.810	10.6	-78	0.33	4.97	340	
15	9.83	7.29	6.92	10.5	-85	0.20	3.93	340	
20	9.90	7.23	6.97	10.5	-90	0.09	4.51	340	
25	9.93	7.19	6.99	10.5	-91	0.02	4.13	320	
1047 30	9.91	7.17	7.02	10.6	-92	0.00	4.03	340	
1052 35	9.95	7.44	7.03	10.5	-93	0.00	3.44	340	
1055 38	9.94	7.48	7.04	10.5	-93	0.00	3.06	340	
41	9.92	7.47	7.060	10.5	-93	0.00	3.19	350	
1101 44	9.91	7.50	7.060	10.5	-94	0.00	3.17	340	1.002

End Purge Time: 1101

Water sample:

Time collected: 1122

Physical appearance at start

Color: clear

Odor: none

Sheen/Free Product: none

Density Measurement Start 1.008 End 1.002

Total volume of purged water removed: ~5 gal

Physical appearance at sampling

Color: clear

Odor: none

Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0096-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2/13/13	Personnel	JSK	Weather	Mostly Cloudy 23°F
Site Name	SB915 Closure	Evacuation Method	Peri Pump	Well #	SB915-INW-05S
Site Location	Camillus, NY	Sampling Method	Peri	Project #	48127

Well information:

Depth of Well *	18.11 ft.	* Measurements taken from	
Depth to Water *	4.72 ft.	X	Top of Well Casing
Length of Water Column	13.39 ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1230

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	5.21	9.74	11.44	34.5	-172	1.28	14.2	340	1,012
5	5.26	9.49	11.55	34.6	-205	0.31	21.8	340	
10	5.30	9.28	11.60	34.7	-215	0.02	16.8	340	1,012
15	5.32	9.20	11.63	34.8	-223	0.00	16.1	340	
20	5.32	9.24	11.66	34.7	-236	0.00	15.2	360	1,012
25	5.32	9.27	11.70	34.6	-243	0.00	8.84	360	
30	5.32	9.23	11.79	34.6	-250	0.00	4.56	360	1,012
35	5.32	9.08	11.83	33.8	-252	0.00	4.18	360	

End Purge Time: 1305

Water sample: SB915-0013-06

Time collected: 1330

Density Measurement Start 1,012 End 1,012

Total volume of purged water removed: 3 gal

Physical appearance at start

Color: Clear

Odor: Sewage smell

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/13/13	Personnel	TJP	Weather	
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-IMW-06S
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	15.32	ft.
Depth to Water *	6.12	ft.
Length of Water Column	11.20	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1245

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	4.71	7.54	12.80	27.1	-210	0.00	87.1	460
5	4.59	7.33	13.11	26.4	-245	0.00	16.1	500
10	4.59	7.29	13.15	26.5	-250	0.00	8.68	500
15	4.59	7.32	13.17	26.5	-252	0.00	5.14	500
20	4.59	7.37	13.18	26.5	-254	0.00	3.25	500
25	4.59	7.34	13.20	26.5	-255	0.00	2.01	500

1 car

End Purge Time: 13:10

Water sample:

Time collected: 13:25

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.014 End 1.012

Total volume of purged water removed: ~4991

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0093-04

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2/20/13	Personnel	JMW	Weather	Sny 20's
Site Name	SB915 Closure	Evacuation Method	Grndfos	Well #	SB915-WB-01L
Site Location	Camillus, NY	Sampling Method	Grndfos	Project #	48127

Well information:

Depth of Well *	68.77	ft.
Depth to Water *	24.84	ft.
Length of Water Column	43.93	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0935

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	S.G.
0	24.98	8.63	5.05	0.197	215	4.27	569	700	0.999
5	24.92	9.46	5.92	0.898	61	0.00	350	480	0.999
10	24.92	9.88	6.06	0.995	31	0.00	262	480	
15	24.92	10.59	6.13	1.02	17	0.00	134	480	
20	24.92	10.77	6.17	1.03	6	0.00	68.4	500	
25	24.92	10.72	6.19	1.03	1	0.00	46.9	500	
30	24.92	10.66	6.22	1.30	-4	0.00	33.3	500	
35	24.92	10.90	6.24	1.32	-8	0.00	27.6	500	
40	24.92	10.76	6.27	1.30	-11	0.00	23.7	500	
45	24.92	10.75	6.29	1.30	-14	0.00	19.1	500	1.000

End Purge Time: 1020

Water sample:

Time collected: 1022

Physical appearance at start

Color: Clear / Cloudy

Odor: None

Sheen/Free Product: None

Density Measurement Start 0.999 End 1.000

Total volume of purged water removed: 7 liters

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: NA

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0098-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2-15-13	Personnel	JWR, PAF, AKM	Weather	~35°F Cloudy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WR-03L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	79.35	ft.
Depth to Water *	28.29	ft.
Length of Water Column	51.06	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1025

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	28.36	~~13.06~~ 9.80	~~4.449~~	28.4	-52	0.00	213	300	density @ 1.008
5	28.40	9.52	9.23	40.8	-70+1	0.00	257	300	
10	28.40	9.34	8.22	48.6	-148	0.00	149.3	300	
15	28.40	9.17	7.76	53.6	-94	0.00	92.8	300	
20	28.40	9.00	7.50	54.7	-66	0.00	47.2	300	
25	28.40	8.95	7.30	55.3	-50	0.00	34.0	300	
30	28.40	8.96	7.19	55.5	-43	0.00	23.0	300	
35	28.40	8.90	7.12	55.9	-38	0.00	17.7	300	
40	28.40	8.91	7.04	56.8	-34	0.00	14.1	300	
45	28.40	8.83	7.01	57.2	-32	0.00	13.5	300	1.028
50	28.40	8.87	6.97	57.9	-29	0.00	13.2	300	
55	28.40	8.85	6.94	58.5	-26	0.00	10.5	300	
60	28.40	8.83	6.90	58.9	-24	0.00	10.3	300	
65	28.40	8.77	6.89	59.1	-23	0.00	10.8	300	
70	28.40	8.79	6.88	59.4	-22	0.00	11.4	300	

End Purge Time:

Water sample:

Time collected: 1200

Physical appearance at start

Color: Light-med Greenish-gray

Odor: No

Sheen/Free Product: No

Density Measurement Start 1.008 End 1.030

Total volume of purged water removed: 5 gallons

Physical appearance at sampling

Color: clear

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron:	-
Dissolved total iron:	-
Dissolved total manganese:	-
Dissolved Oxygen:	-

SB915-0095-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/11/2013	Personnel	P. Freyer	Weather	Mostly Cloud and 30's Calm
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-GWB-052
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	14.59	ft.
Depth to Water *	12.42	ft.
Length of Water Column	2.17	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: _____

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
1029 0	12.42	10.37	11.70	31.4	122	1.92	10.2	240
3	12.56	10.51	11.79	26.6	79	1.88	7.62	240
6	12.57	10.58	11.81	23.5	61	1.97	4.16	240
9	12.57	10.62	11.87	23.0	50	1.70	2.66	240
12	12.57	10.64	11.90	23.2	40	1.52	0.58	240
15	12.57	10.66	11.94	23.6	34	1.43	0.34	240
18	12.57	10.65	11.96	23.8	30	1.41	0.34	260
			Pump Stopped Briefly, Restarted @ 1250					
22	12.54	10.64	11.99	24.3	25	1.36	0.40	320
25	12.60	10.72	11.99	24.2	22	1.35	0.47	320
28	12.61	10.76	11.99	24.3	18	1.31	0.35	320
31	12.61	10.74	12.02	24.6	15	1.25	0.38	320
34	12.61	10.77	12.04	25.2	12	1.21	0.31	320
37	12.61	10.80	12.05	25.5	10	1.17	0.24	320
40	12.61	10.81	12.07	25.8	9	1.16	0.25	320

End Purge Time: 1110

Water sample: SB915-0091-02

Time collected: 1120

Density Measurement Start 1.000 End 1.010

Total volume of purged water removed: 3.5 gal

Physical appearance at start

Color: Clear ish Yellow

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2-11-13	Personnel	TBP	Weather	~40°F Sun
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-WB05M
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	64.57	ft.
Depth to Water *	19.31	ft.
Length of Water Column	45.26	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1030

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	19.33	10.81	5.71	33.8	0	1.71	~~19.5~~ 32.70	500	1.016
5	19.35	11.06	6.54	35.1	-19	0.000	27.00	500	
10	19.35	11.07	6.68	37.3	-23	0.00	13.30	500	
15	19.32	11.10	6.71	37.5	-24	0.00	9.80	500	
20	19.31	11.05	6.73	37.41	-24	0.00	9.21	500	
25	19.33	11.05	6.74	37.3	-24	0.00	9.94	500	
30	19.33	11.00	6.75	37.3	-24	0.00	9.99	500	
35	19.33	11.00	6.75	37.3	-24	0.00	8.13	500	
40	19.33	11.02	6.76	37.2	-25	0.00	9.44	500	
45	19.33	11.04	6.76	37.1	-25	0.00	8.20	500	
50									

End Purge Time: 11:45

Water sample:

Time collected: 11:30

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.016 End 1.018

Total volume of purged water removed:

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0091-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/11/13	Personnel	JWB	Weather	~41°F Sun/Clouds
Site Name	SB915 Closure	Evacuation Method	Peristaltic pump	Well #	SB915-WB-05L
Site Location	Camillus, NY	Sampling Method	Peri pump	Project #	48127

Well information:

Depth of Well *	121.60	ft.
Depth to Water *	21.65	ft.
Length of Water Column	99.95	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1030

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	21.69	10.55	9.73	>100.0	-182	0.00	—	360	1.076
5	21.72	11.27	8.24	>100.0	-159	0.00	23.3	360	
10	21.72	11.28	8.01	>100.0	-146	0.00	22.9	360	
15	21.71	11.23	7.87	>100.0	-142	0.00	27.8	360	1.078
20	21.71	11.22	7.84	>100.0	-142	0.00	25.0	360	
25	21.71	11.15	7.82	>100.0	-142	0.00	22.9	360	
30	21.71	11.16	7.80	>100.0	-143	0.00	21.7	360	1.076

End Purge Time: 1100

Water sample: SB915-GW91-05/04/05 MS MSD

Time collected: 1135

Density Measurement Start 1.076 End 1.076

Total volume of purged water removed: 5 gal

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/11/13	Personnel	AKM	Weather	overcast 40°
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	WB-05R
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 157.40 ft.
Depth to Water * 30.60 ft.
Length of Water Column ft.

* Measurements taken from
- [X] Top of Well Casing
- [ ] Top of Protective Casing
- [ ] (Other, Specify)

Start Purge Time: 1035

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	hardness
0	27.4	10.52	6.26	13.2	12	1.30	33.7	120	1:120
5	27.8	10.44	6.24	26.1	16	0.30	144	180	1:130
10	28.4	10.31	6.17	32.8	17	0	84	160	1:130
15	28.55	10.12	6.13	30.6	11	0	75.4	200	1:130
20	28.6	10.03	6.16	29.0	11	0	47.6	140	1:130
1100 25	28.65	9.93	6.15	30.5	10	0	101.3	120	
* 30	28.8	9.80	6.02	*0.00	12	0	35.0	140	1:130
35	28.95	9.85	7.22	0.00	-98	0	26.8	140	
40	29.0	9.71	7.31	0.00	-98	0	24.3	140	1:130
45	29.0	9.58	7.32	0.00	-95	0	23.7	140	
50	29.0	9.58	7.26	0.00	-94	0	22.3	140	1:130
55	29.1	9.39	7.30	0.00	-90	0	20.3	140	1:130

End Purge Time: 1130

* At 30 minutes Conductivity dropped to/read 0.00 indicating Switch out horiba units at 1110. New horiba indicated 0.00 as well. Conductivy appears to be out of range

Water sample:

Time collected: 1223

Physical appearance at start
Color: clear
Odor: no odor
Sheen/Free Product: none

Density Measurement Start 1.120 End

Total volume of purged water removed: 2.5 gallons

Physical appearance at sampling
Color: Clear
Odor: none
Sheen/Free Product: none

Field Test Results:

Dissolved ferrous iron:
Dissolved total iron:
Dissolved total manganese:
Dissolved Oxygen:

SB 915-0091-06

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	8/21/13	Personnel	JMW	Weather	Sunny 75°F
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WB-06
Site Location	Camillus, NY	Sampling Method	Grab	Project #	48127

Well information:

Depth of Well *	82.00	ft.
Depth to Water *	13.19	ft.
Length of Water Column	68.81	ft.

* Measurements taken from

	Top of Well Casing
X	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0940

* DTW Measured from Top of Protective Casing

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	13.25	7.36	5.50	>100	106	0.00	39.9	420	1.064
5	13.25	8.39	6.06	>100	54	0.00	43.2	420	
10	13.25	8.50	6.19	>100	45	0.00	20.6	420	
15	13.25	8.64	6.28	>100	39	0.00	20.2	420	
20	13.25	8.77	6.33	>100	35	0.00	17.9	400	
25	13.25	8.75	6.37	>100	32	0.00	19.1	410	
30	13.25	8.73	6.46	>100	29	0.00	16.2	410	
35	13.25	8.83	6.42	>100	27	0.00	13.9	410	1.066

End Purge Time: 1017

Water sample:

Time collected: 1020

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.064 End 1.066

Total volume of purged water removed: 5 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: NA

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0099-01

SB915-0099-02

SB915-0099-03

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2/13/13	Personnel	TBD	Weather	
Site Name	SB915 Closure	Evacuation Method	~~Pump~~ Peristaltic	Well #	SB915-WR-0711
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	55.80	ft.
Depth to Water *	9.22	ft.
Length of Water Column	46.58	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 10:00

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	9.25	10.73	5.85	33.7	120	9.13	176	500	1.016
5	9.25	11.18	6.21	34.2	17	8.36	57.8	500	
10	9.25	11.31	6.26	34.2	9	8.02	13.5	500	
15	9.25	11.40	6.30	34.4	6	7.43	6.94	500	
20	9.25	11.35	6.32	34.4	5	6.84	4.13	500	
25	9.25	11.37	6.33	34.3	4	6.28	3.66	500	
30	9.25	11.35	6.34	34.3	4	5.63	3.54	500	
35	9.25	11.39	6.35	34.5	3	4.97	2.81	500	
38	9.25	11.38	6.35	34.4	3	4.73	1.89	500	
41	9.25	11.37	6.36	34.4	3	4.38	1.75	500	
44	9.25	11.37	6.36	34.4	3	4.17	1.77	500	
47	9.25	11.49	6.36	34.5	3	3.94	1.66	500	
50									

End Purge Time: 10:49

Water sample:

Time collected: 1100

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1.016 End 1.016

Total volume of purged water removed: 7.5 gal

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0093-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2/13/2013	Personnel	PAF	Weather	Mostly Cloudy, 4 breeze
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WR-07L
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well *	79.66	ft.
Depth to Water *	10.14	ft.
Length of Water Column	69.52	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1042

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	10.14	8.25	5.65	85.9	190	4.21	4.23	380
5	10.21	10.64	5.86	87.0	-43	0.00	4.15	380
10	10.21	10.80	5.92	86.8	-5	0.00	2.31	380
15	10.22	10.71	5.98	87.0	8	0.00	1.31	380
20	10.22	10.68	6.03	87.1	10	0.00	0.65	380
23	10.22	10.66	6.05	87.1	10	0.00	0.56	420
26	10.22	10.80	6.08	87.1	10	0.00	0.35	420
29	10.22	10.75	6.09	87.2	11	0.00	0.51	420
32	10.22	10.69	6.12	87.1	11	0.00	0.56	420
35	10.22	10.80	6.14	87.0	10	0.00	0.48	420
	✓	✓	✓	✓	✓	✓		

End Purge Time: 1042

Water sample:

Time collected: 1103

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Density Measurement Start 1046 End 1050

Total volume of purged water removed: ~4

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0093-01

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2/13/13	Personnel	KJK	Weather	Overcast ~30°F
Site Name	SB915 Closure	Evacuation Method	Grundfos	Well #	SB915-GW3-07R
Site Location	Camillus, NY	Sampling Method	Grundfos	Project #	48127

Well information:

Depth of Well *	114.59	ft.
Depth to Water *	14.65	ft.
Length of Water Column	99.94	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1005

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
0	15.29	10.20	5.44	7100.0	293	0.0	39.5	220	1102
5	16.53	9.98	5.86	7100.0	161	0.0	23.0	110	1106
10	Purging to drop water to ~49.83'								
15									
20	48.41	11.28	7.01	7100.0	-27	0.0	23.0	240	1104
25	49.01	10.88	7.05	7100.0	-26	0.0	24.4	200	&
30	49.27	10.91	7.08	7100.0	-31	0.0	23.6	240	
35	49.79	11.18	7.11	7100.0	-42	0.0	18.0	240	1104
40	50.06	10.69	7.13	7100.0	-45	0.0	14.8	200	
45	50.14	10.90	7.15	7100.0	-45	0.0	12.4	170	
50	50.08	10.50	7.16	7100.0	-46	0.0	13.2	140	
55	50.01	10.51	7.17	7100.0	-45	0.0	13.3	170	1106

End Purge Time: 1100

Water sample: SB915-GW3-03

Time collected: 1120

Density Measurement Start 1102 End 1106

Total volume of purged water removed: 9 gal

Physical appearance at start

Color: Clear

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

Analytical Parameters: 439.0654

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2-14-13	Personnel	AKM	Weather	32° overcast
Site Name	SB915 Closure	Evacuation Method	Peristaltic pump	Well #	SB915-WB-09U
Site Location	Camillus, NY	Sampling Method	Low flow	Project #	48127

Well information:

Depth of Well *	14.56	ft.
Depth to Water *	12.35	ft.
Length of Water Column	2.21	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0940

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	13.94	8.48	7.16	6.51	-12	5.00	27.0	160	1.006
5	13.94	8.13	8.68	11.6	-118	6.71	28.6	100	
10	14.10	7.72	9.92	13.5	-106	7.96	111	100	1.006
15	pumped	dry							

End Purge Time: _____

Water sample:

Time collected: NA - pumped dry

Physical appearance at start

Color _____

Odor _____

Sheen/Free Product _____

Density Measurement Start 1.006 End 1.006

Total volume of purged water removed: ~1/2 gallon

Physical appearance at sampling

Color _____

Odor _____

Sheen/Free Product _____

Field Test Results:

Dissolved ferrous iron: _____

Dissolved total iron: _____

Dissolved total manganese: _____

Dissolved Oxygen: _____

~~SB915-0094-02~~

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/14/13	Personnel	PAF	Weather	Overcast, 30°F, Westerly Breeze
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915-WB-09L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well * 74.75 ft.

Depth to Water * 5.89 ft.

Length of Water Column 68.86 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0935

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	5.89	7.95	5.94	22.6	109	2.92	327	40
5	5.91	9.37	6.44	89.2	0	0.00	176	240
10	5.91	9.22	6.64	89.2	-16	0.00	163	220
15	5.91	9.04	6.78	89.5	-26	0.00	129	220
20	5.91	8.94	6.82	89.7	-30	0.00	111	220
25	5.90	8.88	6.86	90.4	-33	0.00	103	220
30	5.90	8.99	6.89	90.0	-36	0.00	65.5	220
35	5.90	9.15	6.91	90.2	-38	0.00	57.2	220
40	5.90	9.09	6.92	91.0	-39	0.00	49.8	220
45	5.90	9.13	6.93	91.0	-41	0.00	43.3	220
50	5.90	9.15	6.95	90.7	-42	0.00	38.5	220
55	5.90	9.15	6.96	91.0	-43	0.00	30.6	220
60	5.90	9.17	6.98	91.2	-44	0.00	27.7	220
65	5.90	9.20	6.98	91.9	-45	0.00	26.7	220
70	5.90	9.24	6.99	91.0	-45	0.00	25.6	220

End Purge Time: 1045

Water sample:

Time collected: 1115

Physical appearance at start

Color Cloudy

Odor None

Sheen/Free Product None

Density Measurement Start 1.046 End 1.046

Total volume of purged water removed:

Physical appearance at sampling

Color Clear

Odor None

Sheen/Free Product None

Field Test Results:

Dissolved ferrous iron:

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

SB915-0094-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2.14.13	Personnel	JWB	Weather	~35°F Sunny
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	SB915-WB-10A
Site Location	Camillus, NY	Sampling Method	~~Low Flo~~ Purge & Sample	Project #	48127

Well information:

New Protective Casing, needs to be re-surveyed

Depth of Well *	19.15	ft.
Depth to Water *	10.41	ft.
Length of Water Column	8.74	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

1x well Volume = 1.42 gallons

Start Purge Time: 1420

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density
0	10.85	9.61	7.29	74.1	-88	0.42	>1000	~~N/A~~ 500	1.032
5	11.90	10.13	7.21	70.2	-76	0.00	252	500	
~~10~~ 8	12.35	10.00	7.25	65.1	-77	0.00	>1000	480	
11	12.90	10.20	7.29	63.5	-78	0.00	~~6~~ 318	460	
15	~~10.41~~ 14.15	10.14	7.34	57.5	-80	0.00	170	440	
23	16.10	10.38	7.26	51.2	-81	0.00	138	420	1.024
30	17.75	10.52	7.25	55.4	-80	0.00	117		
36	18.70	11.03	7.22	64.8	-79	0.00	56.1	N/A	
38	Dry								
2/15/13	10.52								
	Sample collected using Peristaltic								

End Purge Time: _____ X Well Purged dry + sampled when recovered

Water sample:

Time collected: 1340 on 2/15/13

Physical appearance at start

Color: Brownish green

Odor: no

Sheen/Free Product: no

Density Measurement Start 1.032 End 1.024

Total volume of purged water removed: ~4 gallons ~~V. light orangish brown~~

Physical appearance at sampling

Color: V. light orangish brown

Odor: no

Sheen/Free Product: no

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0095-02

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc. — Low Flow Ground Water Sampling Log

Date	2/21/2013	Personnel	PAF/JMN	Weather	overcast 15°F, windy
Site Name	SB915 Closure	Evacuation Method	Peristaltic Pump	Well #	SB915 WB-10L
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	74.24	ft.	
Depth to Water *	6.80	ft.	
Length of Water Column	44	ft.	

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1330

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	6.80	6.65	6.10	54.7	-2	5.72	61.6	400
5	6.81	6.29	6.04	>100.0	29	0.22	22.2	380
10	6.81	7.09	6.01	>100.0	22	0.00	195	380
15	6.81	8.24	6.07	>100.0	20	0.00	148	390
20	6.81	7.92	6.07	>100.0	20	0.00	102	390
25	6.81	8.14	6.08	>100.0	19	0.00	88.2	390
30	6.81	7.79	6.08	>100.0	17	0.00	61.2	390
35	6.81	7.69	6.08	>100.0	15	0.00	47.5	390
40	6.81	7.56	6.08	>100.0	15	0.00	30.00	390
45	6.81	7.73	6.08	>100.0	14	0.00	24.0	390
50	6.81	7.58	6.08	>100.0	14	0.00	20.3	390
55	6.81	7.65	6.07	>100.0	13	0.00	14.5	390
60	6.81	7.61	6.01	>100.0	13	0.00	14.3	390
63	6.81	7.73	6.01	>100.0	13	0.00	16.2	390

End Purge Time: 1333

Water sample: SB915 0099-01

Time collected: 1340

Density Measurement Start 1023 End 1050

Total volume of purged water removed: ~6 gal

Physical appearance at start

Color: Cloudy

Odor: None

Sheen/Free Product: None

Physical appearance at sampling

Color: Clear

Odor: None

Sheen/Free Product: None

Field Test Results:

Dissolved ferrous iron: NA

Dissolved total iron:

Dissolved total manganese:

Dissolved Oxygen:

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2/21/2013	Personnel	PAF	Weather	Overcast, Snowing ~14°F
Site Name	SB915 Closure	Evacuation Method	Peristaltic	Well #	WB48-MW-14D
Site Location	Camillus, NY	Sampling Method	Low-Flow	Project #	48127

Well information:

Depth of Well * 59.64 ft.

Depth to Water * 6.02 ft.

Length of Water Column 53.62 ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1005

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)
0	6.02	4.8[illegible]	5.87	8[illegible].2	62	1.89	0.8[illegible]	160
5	7.90	6.22	5.86	79.1	23	0.56	8.63	150
10	8.39	7.21	5.89	76.7	20	0.34	10.5	140
15	9.25	7.42	5.90	76.9	18	0.18	24.0	150
20	9.68	7.44	5.91	76.7	17	0.11	26.9	160
25	10.10	6.83	5.92	76.6	16	0.03	25.1	120
30	10.28	6.61	5.93	76.9	16	0.00	27.2	120
35	10.45	6.59	5.94	76.7	16	0.00	33.4	120
40	10.53	6.27	5.95	76.8	15	0.00	44.9	120
45	10.56	6.23	5.96	77.0	15	0.00	50.2	120
50	10.61	5.84	5.97	76.8	15	0.00	60.8	120
55	10.64	5.74	5.97	77.1	15	0.00	61.5	120
60	10.67	5.95	5.97	76.9	15	0.00	73.2	120
63	10.68	5.90	5.97	76.9	15	0.00	69.3	120
66	10.68	5.84	5.98	77.0	15	0.00	73.8	120

End Purge Time: 1112

Water sample: SB915 0099-00

Time collected: 1145

Physical appearance at start

Color Clear

Odor None

Sheen/Free Product None

Density Measurement Start 1.032 End 1031

Total volume of purged water removed: ~2.5 gal

Physical appearance at sampling

Color Clear

Odor None

Sheen/Free Product None

Field Test Results:

Dissolved ferrous iron: NA

Dissolved total iron: ↓

Dissolved total manganese: ↓

Dissolved Oxygen: ↓

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2.21.13	Personnel	JWB	Weather	~14°F Snow/Wind
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	GWBS-MW-14BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	120.69	ft.	* Measurements taken from
Depth to Water *	9.18	ft.	X Top of Well Casing
Length of Water Column	111.51	ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1000

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	Density 1.082
0	9.20	6.59	5.47	>100.0	132	0.32	50.7	200	
5	9.23	5.39	5.96	>100.0	81	0.00	139	200	
10	9.22	5.40	6.10	>100.0	71	0.00	299	200	
15	9.22	6.97	6.26	>100.0	63	0.00	453	300	
20	9.25	9.52	6.37	>100.0	51	0.00	688	400	
25	9.26	10.10	6.44	>100.0	42	0.00	544	400	
30	9.26	10.26	6.50	>100.0	32	0.00	350	400	
35	9.26	10.28	6.54	>100.0	26	0.00	337	400	
40	9.25	9.36	6.57	>100.0	22	0.00	310	440	
45	9.25	9.89	6.58	>100.0	20	0.00	302	440	
50	9.24	9.43	6.57	>100.0	17	0.00	223	440	
55	9.23	9.82	6.60	>100.0	14	0.00	168	440	
60	9.23	8.89	6.59	>100.0	13	0.00	141	440	
65	9.23	9.41	6.61	>100.0	9	0.00	111	440	
70	9.23	9.08	6.61	>100.0	9	0.00	98.6	440	
75	9.23	9.48	6.62	>100.0	7	0.00	83.3	440	
80	9.23	8.86	6.63	>100.0	5	0.00	75.9	440	
85	9.23	9.17	6.65	>100.0	5	0.00	65.0	440	
* 90	9.22	9.08	6.67	>100.0	27	0.00	114	440	
95	9.22	9.35	6.66	>100.0	22	0.00	96.7	440	
100	9.22	9.45	6.65	>100.0	18	0.00	95.9	400	
105	9.22	9.80	6.66	>100.0	12	0.00	72.9	400	
110	9.22	9.46	6.65	>100.0	10	0.00	68.7	400	

End Purge Time: 1205

*Generator stopped. Lost flow. Changed Generator + restarted pumping

Water sample:

Time collected: 1220

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.082 End 1.120

Total volume of purged water removed: ~14 gallons.

Physical appearance at sampling

Color: Clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0099-04

SB915-0099-05 (FD)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

O'Brien & Gere Engineers, Inc.

Low Flow Ground Water Sampling Log

Date	2.21.13	Personnel	JWB	Weather	~15°F Snow/Wind
Site Name	SB915 Closure	Evacuation Method	Grundfos Pump	Well #	WB18-MW-14BR
Site Location	Camillus, NY	Sampling Method	Low Flow	Project #	48127

Well information:

Depth of Well *	120.69	ft.
Depth to Water *	9.18	ft.
Length of Water Column	111.51	ft.

* Measurements taken from

X	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1000

Elapsed Time (min.)	(0.3-ft) Depth To Water (ft)	(3%) Temperature (celsius)	(0.1) pH	(3%) Conductivity (ms/cm)	(10 mV) Oxidation Reduction Potential	(10%) Dissolved Oxygen (mg/l)	(10%) Turbidity (NTU)	(100-500 ml/min) Flow Rate (ml/min)	
115	9.22	9.42	6.66	>100.0	7	0.00	55.5	400	Density
120	9.22	9.57	6.66	>100.0	5	0.00	51.7	400	
123	9.22	10.71	6.65	>100.0	5	0.00	54.2	400	1.120

End Purge Time: 1205

Water sample:

Time collected: 1220

Physical appearance at start

Color: Clear

Odor: NO

Sheen/Free Product: NO

Density Measurement Start 1.082 End 1.120

Total volume of purged water removed: ~14 gallons

Physical appearance at sampling

Color: Clear

Odor: NO

Sheen/Free Product: NO

Field Test Results:

Dissolved ferrous iron: —

Dissolved total iron: —

Dissolved total manganese: —

Dissolved Oxygen: —

SB915-0099-04

SB915-0099-05 (FD)

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH

Appendix G

Chains of Custody (on CD at end of Appendices)

Appendix G-1

Round 1 Groundwater

1.6 1.8 2.6 2.0 1.5 1.0 .8 #5 10109

FROM SYRACUSE! HEX → EDITON; LLHGS → N. CANTON; PCBs, DIOX → KXVILLE; BALANCE → Pittsburgh - RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0040
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
											Units															
1	SB915-WB-09U	—	—	SB915- 0040-01	4/23/12	1450	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-WB-10L	—	—	SB915-0040 -02	4/23/12	1700	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-TB-0040	—	—	SB915- 0040 -03	4/23/12	—	QC	water	TB	2	-	-	X													
4				SB915- -04																						
5				SB915- -05																						
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
Robert Hamung / Robert H	O'Brien & Gere	R English	Syr		
	Date/Time 04/23/2012 1728		Date/Time 04-23-12 17:28	Cooler Temp.	
Relinquished by	Company	Received by	Company	Condition	Custody Seals Intact
R English	Syr		TMT		
	Date/Time 04-23-12 19:00		Date/Time 4/25/12 0915	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

16 2.0 #5
1.8 1.5
2.6 1.0
.8

1 4 10/11

FROM Syracuse: HEX → Edison; LLHgs → N. Canton; PCBs, Diox → Knoxville. - RE (Balmville → Pittsburgh)

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0041
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																	
1	SB915-~~MW~~WB-004L	—	—	SB915-0041-01	4/24/12	1645	GW-MW	water	Reg	25	G	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-FD-0041	—	—	SB915-0041-02	4/24/12	—	QC	water	FD	25	G	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-WB-10L	—	—	SB915-0041-03	4/24/12	1420	GW-MW	water	Reg	25	G	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-MW-42I	—	—	SB915-0041-04	4/24/12	1500	GW-MW	water	Reg	25	G	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-MW-42D	—	—	SB915-0041-05	4/24/12	1435	GW-MW	water	Reg	25	G	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
6	SB915-TB-0041	—	—	SB915-0041-06	4/24/12	—	QC	water	TB	2	—	—		X													
7				SB915- -07																							
8				SB915- -08																							
9				SB915- -09																							
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition		Custody Seals Intact	
	Date/Time	4-24-12 / 1715		Date/Time	04-24-12 / 17:15	Cooler Temp.			
Relinquished by	Company	Syr	Received by	Company	TAR	Condition		Custody Seals Intact	
	Date/Time	04-24-12 / 19:50		Date/Time	4/26/12 / 0915	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

1.3, 1.9, 0.4 1.6 1.8 1.2 10163 #5

FROM SYR: HEX → EDISON; LLHGs → N. CAN; PCBs, DIOX → KEARNEY; BAL → PITTSBURGH - RET.

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0042
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Preservative																									
	Units										G	N														
1	SB915-IMW-01S	—	—	SB915-0042-01	4/25/12	1316	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-IMW-06S	—	—	SB915-0042-02	4/25/12	1215	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-IMW-05S	—	—	SB915-0042-03	4/25/12	1243	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-IMW-04S	—	—	SB915-0042-04	4/25/12	1405	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-IMW-01S	—	—	SB915-0042-05	4/25/12	1316	QC	water	MS	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	SB915-IMW-01S	—	—	SB915-0042-06	4/25/12	1316	QC	water	MSD	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	SB915-IMW-03S	—	—	SB915-0042-07	4/25/12	1500	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
8	SB915-TB-0042	—	—	SB915-0042-08	4/25/12	—	QC	water	TB	2	—	—	X													
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company: O'Brien & Gere	Received by	Company: Sina	Condition		Custody Seals Intact	
	Date/Time: 4-25-12 / 1717		Date/Time: 04-25-12 17:17	Cooler Temp.			
Relinquished by	Company: Sina	Received by	Company: DHL	Condition		Custody Seals Intact	
	Date/Time: 04-25-12 19:00		Date/Time: 4/26/12 0915	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

1.6 2.0 1.8 1.8 2.1 1.8

From Syr: Hex → Edison; LLHgs → N Canton; PCBs; Diox. → Kx ville; Balance → Pittsburgh. -RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0043
Lab Use Only
Lab Proj #:
Lab ID:

Privileged & Confidential

EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Sampler:

PO #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Job No.:

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	VOCs (8260B)	SVOCs (8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
											Units																	
1	SB915-IMW-02S	—	—	SB915-0043-01	4/26/12	1313	GW-MW	water	Reg	25	6	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-WB-07U	—	—	SB915-0043-02	4/26/12	1427	GW-MW	water	Reg	25	6	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-WB-07L	—	—	SB915-0043-03	4/26/12	1410	GW-MW	water	Reg	25	6	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-WB-07R	—	—	SB915-0043-04	4/26/12	1335	GW-MW	water	Reg	25	6	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-MW-110S	—	—	SB915-0043-05	4/26/12	1215	GW-MW	water	Reg	25	6	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
6	SB915-MW-42S	—	—	SB915-0043-06	4/26/12	1435	GW-MW	water	Reg	25	6	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
7	SB915-TB-0043	—	—	SB915-0043-07	4/26/12	—	QC	water	TB	2	-	-		X													
8				SB915- -08																							
9				SB915- -09																							
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition	Custody Seals Intact
	Date/Time	4-26-12/1605		Date/Time 04-26-12	16:05	Cooler Temp.	
Relinquished by	Company	Syr	Received by	Company		Condition	Custody Seals Intact
	Date/Time	04-26-12 19:00		Date/Time 4/27/12	0900	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

#5 53 13 .6 D. 2 Bo

RE

180-10259

FROM SYR. ; HEX → EDISON ; PCBs, DIOX → KXville; LLHGs, TKN, ~~PHOS~~ → N. CANTON; BALANCE → PITTSBURGH. -R.E

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915 0044
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

EDD To: Chuck Sharpe

Sampler:

P O #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Job No

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analysis	Lab Sample Numbers
											Units																
1	SB915-EB-0044			SB915-0044-01	04/20/12	11:00	QC	Water	EB	25				X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-TB-0044			SB915-0044-02	04/27/12	—	QC	Water	TB	2				X													
3	SB915-MW-108D			SB915-0044-03	4/27/12	1335	GW-MW	water	REG	25				X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-MW-108BR			SB915-0044-04	4/27/12	1500	GW-MW	water	REG	25				X	X	X	X	X	X	X	X	X	X	X	X	X	
5				SB915- -05																							
6				SB915- -06																							
7				SB915- -07																							
8				SB915- -08																							
9				SB915- -09																							
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by		Company	O'Brien & Gere	Received by		Company	SYR	Condition		Custody Seals Intact	
		Date/Time	4/27/12 1613			Date/Time 04-27-12	19:00	Cooler Temp.			
Relinquished by		Company	SYR	Received by		Company		Condition		Custody Seals Intact	
		Date/Time 04-27-12	19:00			Date/Time 4-28-12	8:55	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

2.6 3.1 3.0 2.8 ~~3.5~~ 10988

FROM SYR.: HEX → EDISON; LLHgs, TKN → N CANTON; PCBs, DIOX → Kxville; BAL → Pittsburgh. -R.E.

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0045
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
											Units															
1	SB915-MW-111BR	—	—	SB915-0045-01	4/30/12	1525	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-MW-111D	—	—	SB915-0045-02	4/30/12	1433	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-MW-111I	—	—	SB915-0045-03	4/30/12	1500	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-MW-111S	—	—	SB915-0045-04	4/30/12	1416	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-TB-0045	—	—	SB915-0045-05	4/30/12	—	QC	water	TB	2	—	—	X													
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
Robert Hornung [signature]	O'Brien & Gere	04/30/12 16:42	R. English	Syr	04-30-12 16:42			
R. English	Syr	04-30-12 1900	[signature]	TAH	5/1/12 1000			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

1.5 1.0 #5 10326

FROM SYR: HEX → EDISON; PCBs, DIOX. → KNOXVILLE; TKN, LL Hgs → N. CANTON; ISA's → PITTSBURGH.

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915 0046
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Units										G	N															
1	SB915-WB-055	—	—	SB915-0046-01	5/1/12	1415	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
2	SB915-FD-0046			SB915-0046-02	5/1/12	—	QC	water	FD	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
3	~~SB915-0046-03~~																										JS
4	SB915-WB-05R	—	—	SB915-0046-04	5/1/12	1420	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
5	SB915-TB-0046	—	—	SB915-0046-05	5/1/12	—	QC	water	TB	2	—	—	X														
6				SB915- -06																							
7				SB915- -07																							
8				SB915- -08																							
9				SB915- -09																							
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin. , SB915-0046-03 was not sampled

Relinquished by		Company	O'Brien & Gere	Received by		Company	SYR	Condition	Custody Seals Intact
		Date/Time	5-1-12 1606			05-01-12	16:00	Cooler Temp.	
Relinquished by		Company	SYR	Received by		TA PIT Company		Condition	Custody Seals Intact
		Date/Time	05-01-12 19:00			Date/Time 5-2-12	0915	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

2.3 2.1 3.2 2.3 2.5 - #2 180-10370

FROM SYR: HEK → EDISON; DIOX, PCBS → KNOXVILLE; LCHGS, TKN → N. CANTON; BALANCE → PITTSBURGH - RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0047
Lab Use Only
Lab Proj #
Lab ID

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Job No.

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
											Units		Preservative														
1	SB91S-MW-70S	—	—	SB915-0047-01	5/2/12	1250	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB91S-MW-70D	—	—	SB915-0047-02	5/2/12	1330	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB91S-MW-59S	—	—	SB915-0047-03	5/2/12	1217	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-MW-60S	—	—	SB915-0047-04	5/2/12	1226	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB91S-MW-108S	—	—	SB915-0047-05	5/2/12	1305	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	SB91S-MW-109I	—	—	SB915-0047-06	5/2/12	1515	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	SB91S-TR-0047	—	—	SB915-0047-07	5/2/12	—	QC	water	TB	2	-	-	X													
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	ITC	Company		Condition	Good	Custody Seals Intact	
	Date/Time	5/2/12 1641			Date/Time	15:4	Cooler Temp.	2.9 2.6		
Relinquished by	Company	SYR	Received by	TARGET	Company		Condition	3 2 2.3	Custody Seals Intact	
RENGLISH	Date/Time	05-02-12 19:00		10:15	Date/Time	5/3/12	Cooler Temp.	2.5		

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

#2

180-10427 1.7, .6, .1, 1.3, 2.1 #3

FROM SYRACUSE: HEX → EDISON; PCBs, DIOXINS → KNOXVILLE; LLHgs: PHOS → N CANTON; BAL → Pittsburgh - RE,

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0048
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
1	SB915-MW-53D	—	—	SB915-0048-01	5.3.12	1222	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-MW-53I	—	—	SB915-0048-02	5.3.12	1429	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-MW-53D	—	—	SB915-0048-03	5.3.12	1222	QC	water	MS	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-MW-53D	—	—	SB915-0048-04	5.3.12	1222	QC	water	MSD	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-MW-112S	—	—	SB915-0048-05	5.3.12	1405	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	SB915-MW-112I	—	—	SB915-0048-06	5.3.12	1319	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	SB915-TB-0048	—	—	SB915-0048-07	5.3.12	—	QC	water	TB	2	-	-	X													
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	SYR	Condition		Custody Seals Intact	
[signature]	Date/Time	5.3.12 / 1346	R English	Date/Time 05-03-12	15:46	Cooler Temp.			
Relinquished by	Company	SYR	Received by	Company	TA Pitt	Condition		Custody Seals Intact	
R. English	Date/Time 05-03-12	15:46	[signature]	Date/Time 5/4/12	9:00	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

1.3 1.4 1.2 2.4 #3

180-10429

FROM SYR.: HEX → EDISON; LLHGS; PHOS → N. CANTON; PCBS; DIOXINS → KNOXVILLE; BAL → P. #burgh. -RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0049
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample *	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Job No. / Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																	
1	SB915-MW-109S	—	—	SB915-0049-01	5-4-12	1209	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
2	SB915-MW-113S	—	—	SB915-0049-02	5-4-12	1159	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
3	~~SB915~~ WR18-MW-14D	—	—	SB915-0049-03	5-4-12	1445	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
4	WR18-MW-14BR	—	—	SB915-0049-04	5-4-12	1250	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
5	SB915-EB-0049	—	—	SB915-0049-05	5-4-12	1330	QC	water	EB	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X		
6	SB915-TB-0049	—	—	SB915-0049-06	5-4-12	—	QC	water	TB	2	—	—	X														
7				SB915-07																							
8				SB915-08																							
9				SB915-09																							
10				SB915-10																							
11				SB915-11																							
12				SB915-12																							

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	SyR	Condition	Custody Seals Intact
	Date/Time	5-4-12 / 1515		Date/Time 05-04-12	15:11	Cooler Temp.	
Relinquished by	Company	SyR	Received by	Company		Condition	Custody Seals Intact
	Date/Time 05-04-12	19:00		Date/Time 5 5 12	10:00	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

C80-10829

.4, 1.2, .3, 2, 8 #3

FROM SYR.: HEX → EDISON; TKN, LLHGS → N. CANTON; PCBs, DIOX. → KNOXVILLE; BAL. → PITT. - RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0050
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
1	SB915-MW-107S			SB915-0050-01	5/17/12	1405	GW-MW	Water	Reg				X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-MW-107I			SB915-0050-02	5/17/12	1315	GW-MW	Water	Reg				X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-MW-107D			SB915-0050-03	5/17/12	1305	GW-MW	Water	Reg				X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-MW-107BR			SB915-0050-04	5/17/12	1507	GW-MW	Water	Reg				X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-TB-0050			SB915-0050-05	5/17/12	—	QC	Water	TB				X													
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Units

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
Edwin B Rahn	O'Brien & Gere	5/17/12 1605	R English	Syr	05-17-12 16:05			
R English	Syr	05-17-12 19:00	Rob O'Rey	TA Pitt	5-18-12 945			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

From Syr: Hex → Edison; PCBs, Diox → Knoxville; CLHys: TKN → N. Canton; Bal → Pitts. Re.

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0051
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
LDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

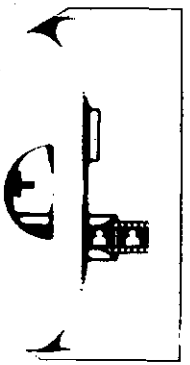
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
1	SB915-MW-106S			SB915-0051-01	5/18/12	1245	GW-MW	Water	Reg	25			X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-MW-106I			SB915-0051-02	5/18/12	1515	GW-MW	Water	Reg	25			X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-FD-0051			SB915-0051-03	5/18/12	—	QC	Water	FD	25			X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-MW-118BR			SB915-0051-04	5/18/12	1153	GW-MW	Water	Reg	25			X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-TB-0051			SB915-0051-05	5/18/12	—	QC	Water	TB	2			X													
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition		Custody Seals Intact	
Edwin B Rodin	Date/Time	5/18/12 1510	R Englick	Date/Time	05-18-12 15:10	Cooler Temp.			
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
	Date/Time			Date/Time		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

FD - 106I



From Syr: HEK → Edison; PCBs, Diox → Knoxville; LL Hgs, TKN → N. Canton; BAL → Pittsburgh-RS

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 59609.59845
COC #: SB915-0052
Lab Use Only:
Lab Proj #:
Lab ID:

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
PO#
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Job No.

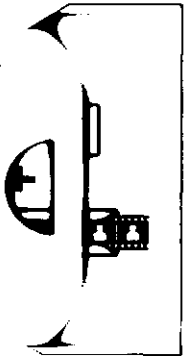
Sample Identification					Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs (8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfide/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Preservative															
											Units															
1	SB915-WR-06	—	—	SB915-0052-01	5/23/12	1230	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-MW-43S	—	—	SB915-0052-02	5/23/12	1330	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-MW-85D	—	—	SB915-0052-03	5/23/12	1300	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-TB-0052	—	—	SB915-0052-04	5/23/12	—	QC	water	TB	2	-	-	X													
5				SB915- -05																						
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company		Condition	Custody Seals Intact
	Date/Time	5/23/12 1607		Date/Time		Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

6/26/12



2.6 2.8 3.6 2.4 2.8 #1 11046

FROM SYR; HEX → EDISON; PCBs, DIOX → KNOXVILLE; LLHgs; TKN → N. CANTON; BAL. → PITTSBURGH, R.E.

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0053
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
											Units															
1	SB915-WB-05M	—	—	SB915-0053-01	5-24-12	1145	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-WB-012	—	—	SB915-0053-02	5-24-12	1237	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-WB-05M	—	—	SB915-0053-03	5-24-12	1145	QC	water	MS	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-WB-05M	—	—	SB915-0053-04	5-24-12	1145	QC	water	MSD	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-MW-118S	—	—	SB915-0053-05	5-24-12	1330	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	SB915-TB-0053	—	—	SB915-0053-06	5-24-12	—	QC	water	TB	2	—	—	X													
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
[signature]	O'Brien & Gere	5-24-12 / 1434	[signature]	Syr	05-24-12 / 14:34		
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
R English	Syr	05-24-12 / 19:00	[signature]	TART	5/25/12 / 1015		

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-11078 4.9, 2.4 #3

FROM SYR: HEX → EDISON; PCBs, DIOX → KXVILLE; TKN, CLHS → HCANTON; BAL → PIHS. -RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0054
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
1	(JB)			SB915- -01																						
2	SB915-MW-117S	—	—	SB915-0054 -02	5/25/12	1313	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-MW-115BR	—	—	SB915-0054 -03	5/25/12	1323	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-MW-116S	—	—	SB915-0054 -04	5/25/12	1345	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-TB-0054	—	—	SB915-0054 -05	5/25/12	—	QC	water	TB	2	—	—	X													
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin. No sample collected for field sample ID SB915-0054-01

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition		Custody Seals Intact	
[signature]	Date/Time	5-25-12 1446	RENglish	Date/Time 05-25-12	14:46	Cooler Temp.			
Relinquished by	Company	Syr	Received by	Company	TARTI	Condition		Custody Seals Intact	
RENglish	Date/Time	05-25-12 19:00	[signature]	Date/Time 5/26/12	9:15	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

28 5.2 3 #1 11116

FROM SYR: HEX → EDISON; TKN, LLHgs → N. CANTON; DIOX, PCBS → KXVL; BAL → PITS.

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0055
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
											Units															
1	SB915-MW-105BR	—	—	SB915-0055-01	5/29/12	1258	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-MW-104I	—	—	SB915-0055-02	5/29/12	1220	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-MW-01	—	—	SB915-0055-03	5/29/12	1105	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-EB-0055	—	—	SB915-0055-04	5/29/12	1410	QC	water	EB	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-TB-0055	—	—	SB915-0055-05	—	—	QC	water	TB	2	—	—	X													
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition		Custody Seals Intact	
[signature]	Date/Time	5-29-12 / 1440	Renglish	Date/Time 05-29-12	14:40	Cooler Temp.			
Relinquished by	Company	Syr	Received by	Company NARH		Condition		Custody Seals Intact	
Renglish	Date/Time 05-29-12	19:00	[signature]	Date/Time 5/30/12 1000		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

FROM SYR.: HEX → EDISON; DIOX, PCBS → KNOXVILLE; TKN, CL, HS → N. CANTON; BAI → PITTS. - R.E.

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0056
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Units										G	N															
1	SB915-MW-03	—	—	SB915-0056-01	5.30.12	1325	Gw-MW	water	Reg	25	G	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-MW-04	—	—	SB915-0056-02	5.30.12	1215	Gw-MW	water	Reg	25	G	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-MW-03	—	—	SB915-0056-03	5.30.12	1325	QC	water	MS	25	G	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-MW-03	—	—	SB915-0056-04	5.30.12	1325	QC	water	MSD	25	G	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-MW-104S	—	—	SB915-0056-05	5.30.12	1215	Gw-MW	water	Reg	25	G	N		X	X	X	X	X	X	X	X	X	X	X	X	X	
6	SB915-TB-0056	—	—	SB915-0056-06	5.30.12	—	QC	water	TB	2	—	—	X														
7				SB915- -07																							
8				SB915- -08																							
9				SB915- -09																							
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syn	Condition	Custody Seals Intact
	Date/Time	5.30.12/1441		Date/Time 5-31-12	12:41	Cooler Temp.	
Relinquished by	Company	Syn	Received by	Company TARGET		Condition	Custody Seals Intact
	Date/Time	5-31-12 19:00		Date/Time 5/31/12	0945	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

FROM SYR.: HEX → EDSN; RCRA, DIOX → KNJ; TKN, CL, H2S → MEANTN; BAL → PITTS. - RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0057
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
PO#
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID						Units																
1	SB915-MW-36S	—	—	SB915-0057-01	5.31.12	1230	GW-MW	water	Reg	25	6	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-MW-36I	—	—	SB915-0057-02	5.31.12	1243	GW-MW	water	Reg	25	6	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-WB-03L	—	—	SB915-0057-03	5.31.12	1300	GW-MW	water	Reg	25	6	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-TB-0057	—	—	SB915-0057-04	5.31.12	—	QC	water	TB	2	—	—	X													
5				SB915- -05																						
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Sign	Condition		Custody Seals Intact	
	Date/Time	5.31.12/1450		Date/Time	05-31-12 14:50	Cooler Temp.			
Relinquished by	Company	Sign	Received by	Company		Condition		Custody Seals Intact	
RENGLISH	Date/Time	05-31-12 19:00		Date/Time	6/1/12 0930	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-11221 2.6, 2.1, 1.7, 1.4, 2.2 #2

FROM SYR: HEX → EDISON; CCHGS & TKN → N. CANTON; PCBs, DIOX → KXVILLE; BAL → PITTS. -RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0058
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
											Units															
1	SB915-PZ-07D	—	—	SB915-0058-01	6.1.12	1205	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-PZ-07I	—	—	SB915-0058-02	6.1.12	1241	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-PZ-07S	—	—	SB915-0058-03	6.1.12 ~~1235~~	1235	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-FD-0058	—	—	SB915-0058-04	6.1.12	—	QC	water	FD	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-PZ-07I	—	—	SB915-0058-05	6.1.12	1241	QC	water	MS	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	SB915-PZ-07I	—	—	SB915-0058-06	6.1.12	1241	QC	water	MSD	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	SB915-EB-0058	—	—	SB915-0058-07	6.1.12	1130	QC	water	EB	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
8	SB915-TB-0058	—	—	SB915-0058-08	6.1.12	—	QC	water	TB	2	—	—	X													
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	6.1.12 1414	R English	Syn	06-01-12 1414			
R English	Syn	06-01-12 19:00	[signature]	TAP. H	6-2-12 9:00			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Appendix G-2

Round 2 Groundwater

12614 #1 2.9 4.0 3.6 3.2

From Syn: TKN → X/C; BAl → Pitts. - RE.

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0059
Lab Use Only
Lab Proj #:
Lab ID:
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Alkalinity (SM20 2320B)	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)				Lab Sample Numbers
											Units															
1	SB915-MW-113S	—	—	SB915-0059-01	7.19.12	1545	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	[illegible]			
2	SB915-~~MW~~ WR-10L	—	—	SB915-0059-02	7/19/12	1200	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
3	SB915-WR-09L	—	—	SB915-0059-03	7/19/12	1349	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
4	SB915-WR-09U	—	—	SB915-0059-04	7/19/12	1230	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
5	SB915-WR-09U	—	—	SB915-0059-05	7/19/12	1230	QC	water	MS	8	G	N		X	X	X	X	X	X	X	X	X				
6	SB915-WR-09U	—	—	SB915-0059-06	7/19/12	1230	QC	water	MSD	8	G	N		X	X	X	X	X	X	X	X	X				
7	SB915-MW-42I	—	—	SB915-0059-07	7/19/12	1220	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
8	SB915-MW-42D	—	—	SB915-0059-08	7/19/12	1214	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
9	SB915-FD-0059	—	—	SB915-0059-09	7/19/12	—	QC	water	FD	8	G	N		X	X	X	X	X	X	X	X	X				
10	SB915-MW-112S	—	—	SB915-0059-10	7/19/12	1451	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
11	SB915-MW-112I	—	—	SB915-0059-11	7/19/12	1505	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syn	Condition		Custody Seals Intact	
[signature]	Date/Time	7.19.12 / 1610	[signature]	Date/Time 07-19-12	16:10	Cooler Temp.			
Relinquished by	Company	Syn	Received by	Company		Condition		Custody Seals Intact	
[signature]	Date/Time 19:00	0719-12	[signature]	Date/Time 7/20/12	0900	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

12657

2.7 3.1 1.6 0.9 1.3 #3

FROM SyR: TKN, >NC; Bal → PitHs. -RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0060
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Alkalinity (SM20 2320B)	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)				Lab Sample Numbers
											Units															
1	SB915-EB-0060	—	—	SB915-0060-01	7/20/12	0840	QC	water	EB	8	G	N		X	X	X	X	X	X	X	X	X				
2	SB915-IMW-01S	—	—	SB915-0060-02	7/20/12	1220	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
3	SB915-WB-07R	—	—	SB915-0060-03	7/20/12	1238	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
4	SB915-WB-07U	—	—	SB915-0060-04	7/20/12	1130	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
5	SB915-IMW-06S	—	—	SB915-0060-05	7/20/12	1154	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
6	SB915-IMW-05S	—	—	SB915-0060-06	7/20/12	1305	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
7	SB915-IMW-03S	—	—	SB915-0060-07	7/20/12	1338	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
8	SB915-IMW-04S	—	—	SB915-0060-08	7/20/12	1306	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
9	SB915-IMW-02S	—	—	SB915-0060-09	7/20/12	1257	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
10	SB915-MW-110S	—	—	SB915-0060-10	7/20/12	1414	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
11	SB915-WB-10U	—	—	SB915-0060-11	7/20/12	1402	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	SyR	Condition		Custody Seals Intact	
[signature]	Date/Time	7/20/12 / 1700	R. English	Date/Time 07-20-12	17:00	Cooler Temp.			
Relinquished by	Company	SyR	Received by	Company	TAPITT	Condition		Custody Seals Intact	
R. English	Date/Time 07-20-12	19:00	[signature]	Date/Time 7-21-12	0900	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180 - 12744

5.1 ~~6.1~~ 80, 4.8, 4.4 #2

FROM SYR: TKN → N.C.; BAL → PITS. - RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0061
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Alkalinity (SM20 2320B)	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)				Lab Sample Numbers
											Units															
1	SB915-MW-111S	—	—	SB915-0061 -01	7-23-12	1314	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
2	SB915-MW-111I	—	—	SB915-0061 -02	7-23-12	1258	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
3	SB915-MW-111D	—	—	SB915-0061 -03	7-23-12	1345	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
4	SB915-MW-111BR	—	—	SB915-0061 -04	7-23-12	1336	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
5	SB915-MW-109S	—	—	SB915-0061 -05	7-23-12	1250	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
6	SB915-MW-109I	—	—	SB915-0061 -06	7-23-12	1615	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
7	SB915-MW-108BR	—	—	SB915-0061 -07	7-23-12	1321	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
8	SB915-MW-108D	—	—	SB915-0061 -08	7-23-12	1540	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	7/23/12 1650	R English	Syr	07-23-12 16:50			
R English	Syr	07-23-12 19:00	None	TAPitt	7-25-12 9:45			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-12749

FROM Syr.: TKN → H.C.; Bal → Pitts. - RE

1.8, 2.4, 2.1, 1.4 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0062
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:

P O #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Job No.

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Alkalinity (SM20 2320B)	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units													
1 SB915-WB-05U	—	—	SB915-0062-01	7-24-12	1245	Gw-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X		
2 SB915-WB-05U	—	—	SB915-0062-02	7-24-12	1245	QC	water	MS	8	G	N		X	X	X	X	X	X	X	X	X		
3 SB915-WB-05U	—	—	SB915-0062-03	7-24-12	1245	QC	water	MSD	8	G	N		X	X	X	X	X	X	X	X	X		
4 SB915-WB-05R	—	—	SB915-0062-04	7-24-12	1301	Gw-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X		
5 SB915-MW-70S	—	—	SB915-0062-05	7-24-12	1345	Gw-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X		
6 SB915-MW-70D	—	—	SB915-0062-06	7-24-12	1256	Gw-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X		
7 SB915-FD-0062	—	—	SB915-0062-07	7-24-12	—	QC	water	FD	8	G	N		X	X	X	X	X	X	X	X	X		
8 SB915-MW-59S	—	—	SB915-0062-08	7-24-12	1235	Gw-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X		
9 SB915-WB-07L	—	—	SB915-0062-09	7-24-12	1532	Gw-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X		
10 SB915-MW-60S	—	—	SB915-0062-10	7-24-12	1438	Gw-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X		
11			SB915- -11																				
12			SB915- -12																				

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company: O'Brien & Gere	Received by	Company: Syr	Condition		Custody Seals Intact	
	Date/Time: 7-24-12 / 1632		Date/Time: 07-26-12	Cooler Temp.	1.6 ; 3.2		
Relinquished by	Company: Syr	Received by	Company: TA Pitt	Condition		Custody Seals Intact	
	Date/Time: 07-24-12 19:00		Date/Time: 7-25-12	Cooler Temp.	9.45		

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

FROM SYR: TKN → N. CAN; BAL → Pitts. - RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0063
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
											Units															
1	SB915-EB-0063	—	—	SB915-0063-01	7-25-12	1345	QC	water	EB	8	G	N	X	X	X	X	X	X	X	X	X					
2	WB18 ~~SB915~~ - MW-14BR	—	—	SB915-0063-02	7-25-12	1429	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
3	WB18 ~~SB915~~ - MW-14D	—	—	SB915-0063-03	7-25-12	1355	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
4	SB915-WB-06	—	—	SB915-0063-04	7-25-12	1347	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
5	SB915-WB-05M	—	—	SB915-0063-05	7-25-12	1213	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition		Custody Seals Intact	
[signature]	Date/Time	7-25-12 / 1638	R. English	Date/Time 07-25-12	16:38	Cooler Temp.			
Relinquished by R. English	Company	Syr	Received by	Company		Condition		Custody Seals Intact	
	Date/Time 07-25-12	19:00		Date/Time 7/26/12 0945		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

FROM SYR: HEX → EDISON; DIOXINS, PCBs → KXVILLE; CLHGS → N. CAN; BAL → PITTS. -RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0064
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
TDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Loc: 180
12795

Preservative

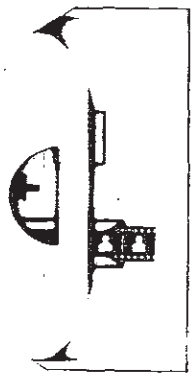
	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
											Units															
1	SB915-WB-05L	—	—	SB915-0064-01	7-25-12	1425	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-WB-05L	—	—	SB915-0064-02	7-25-12	1425	QC	water	MS	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-WB-05L	—	—	SB915-0064-03	7-25-12	1425	QC	water	MSD	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB915-EB-0064	—	—	SB915-0064-04	7-25-12	1600	QC	water	EB	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB915-TB-0064	—	—	SB915-0064-05	7-25-12	—	QC	water	TB	2	-	-	X													
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

CHB
WHG

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141, 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition		Custody Seals Intact	
[signature]	Date/Time	7-25-12 / 1638	[signature]	Date/Time 07-25-12	16:38	Cooler Temp.			
Relinquished by	Company	Syr	Received by	Company		Condition		Custody Seals Intact	
[signature]	Date/Time 07-25-12	19:00	[signature]	Date/Time 7-26-12 900	TA	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):



C80-12860

.3, 1.2, .9, 2.1 #2

FROM SYR: TKN → HC; Bal → Pitts. - R.E.

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0065
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
											Units											
1	SB915-MW-118S	—	—	SB915-0065-01	7/26/12	1040	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-MW-118BR	—	—	SB915-0065-02	7/26/12	1142	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-MW-106S	—	—	SB915-0065-03	7/26/12	1215	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-MW-106I	—	—	SB915-0065-04	7/26/12	1145	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
5	~~SB915-MW-~~ JB			~~SB915-0065-05~~ JB																		B
6	SB915-MW-115BR	—	—	SB915-0065-06	7/26/12	1144	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
7	SB915-MW-04	—	—	SB915-0065-07	7/26/12	1141	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
8	SB915-MW-117S	—	—	SB915-0065-08	7/26/12	1242	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
9	SB915-MW-107D	—	—	SB915-0065-09	7/26/12	1430	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
10	SB915-MW-107I	—	—	SB915-0065-10	7/26/12	1420	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
11	SB915-MW-107S	—	—	SB915-0065-11	7/26/12	1455	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.
No sample collected for field sample ID SB915-0065-05.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	7/26/12 / 1606	[signature]	Syr	07-26-12 16:06			
[signature]	Syr	07-26-12 19:00	[signature]	TA CH	7-27-12 920			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180- 12894 3.6, 2.2 #2

FROM SYR; TKN → N.C.; BAL → PITS. -RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0066
Lab Use Only
Lab Proj #
Lab ID
Job No:

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
											Units															
1	SB915-MW-03	—	—	SB915-0066-01	7-27-12	1010	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
2	SB915-MW-107BR	—	—	SB915-0066-02	7-27-12	1200	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
3	SB915-MW-104I	—	—	SB915-0066-03	7-27-12	1230	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
4	SB915-MW-36I	—	—	SB915-0066-04	7-27-12	1210	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
5	SB915-MW-105BR	—	—	SB915-0066-05	7-27-12	1405	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
6	SB915-MW-116S	—	—	SB915-0066-06	7-27-12	1347	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	7-27-12/1525	R English	Syr	07-27-12 15:25			
R English	Syr	07-27-12 19:00	[signature]	TAPH	7-28-12 9:00			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

186-12896 ;9, 1.3 #2

FROM SYR: HEX → EDISON; PCBs, DIOX → Kxville; 163/s → N. Canton; BAL → Pitts. -RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0067
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
PO#
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

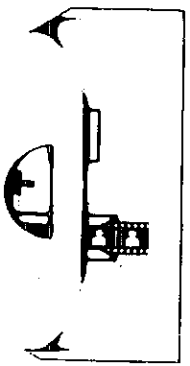
Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
											Units															
1	SB915-MW-36D	—	—	SB915-0067-01	7.27.12	1228	GW-MW	water	Reg	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-FD-0067	—	—	SB915-0067-02	7.27.12	—	QC	water	FD	25	G	N	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-TR-0067	—	—	SB915-0067-03	—	—	QC	water	TR	2	—	—	X													
4				SB915- -04																						
5				SB915- -05																						
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition		Custody Seals Intact	
	Date/Time	7.27.12 / 1525	R English	Date/Time	07-27-12 / 15:25	Cooler Temp.			
Relinquished by	Company		Received by	Company	TAPitt	Condition		Custody Seals Intact	
	Date/Time	7-27-12 / 18:30	[illegible]	Date/Time	7-28-12 / 9:00	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):



3.0 2.8 #1 12933

FROM SYR: TKN → H.CAN; BAL → PITS. -RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0068
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
PO #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

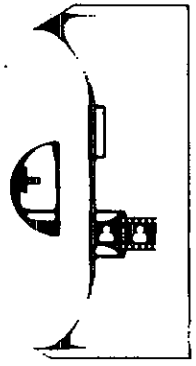
Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
											Units											
1	SB915-WB-03L	—	—	SB915-0068 -01	7/30/12	1348	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-MW-8SD	—	—	SB915-0068 -02	7/30/12	1355	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-FD-0068	—	—	SB915-0068 -03	7/30/12	—	QC	water	FD	8	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-WB-01L	—	—	SB915-0068 -04	7/30/12	1250	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
5				SB915- -05																		
6				SB915- -06																		
7				SB915- -07																		
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	7.30.12/1605	[signature]	Syn	07-30-12 16:05			
[signature]	Syn	07-30-12 19:00	[signature]	[signature]	7/31/12 09:00			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):



3 4 3 3 — #1 Copy 12964

FROM SYR: TKN → N. CAN; BAL → PITS. — RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0069
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
PO #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
											Units											
1	SB915-PZ-07S	—	—	SB915-0069-01	7-31-12	1115	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-PZ-07I	—	—	SB915-0069-02	7-31-12	1127	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-PZ-07I	—	—	SB915-0069-03	7-31-12	1127	QC	water	MS	8	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-PZ-07I	—	—	SB915-0069-04	7-31-12	1127	QC	water	MSD	8	G	N	X	X	X	X	X	X	X	X	X	
5	SB915-PZ-07D	—	—	SB915-0069-05	7-31-12	1400	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
6	SB915-MW-104S	—	—	SB915-0069-06	7-31-12	0938	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
7	SB915-MW-53D	—	—	SB915-0069-07	7-31-12	1435	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
8	SB915-MW-53I	—	—	SB915-0069-08	7-31-12	1350	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
9	SB915-ER-0069	—	—	SB915-0069-09	7-31-12	1328	QC ~~GW-MW~~	water	EB ~~Reg~~	8	G	N	X	X	X	X	X	X	X	X	X	
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	SYR	Condition		Custody Seals Intact	
[signature]	Date/Time	7-31-12 1554	RE English	Date/Time 07-31-12	15:54	Cooler Temp.			
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
	Date/Time		[signature]	Date/Time 8/1/12 0911		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Appendix G-3

Round 3 Groundwater

2.2
3.4 #1

~~19550~~ 15950

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0070
Lab Use Only
Lab Proj #:
Lab ID:
Job No:

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler: TBP EBR
PO #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
1	SB915-MW-118S	—	—	SB915-0070-01	10/31/12	10:36	W-GW	water	REG	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-MW-118BR	—	—	SB915-0070-02	10/31/12	1056	W-GW	water	REG	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-MW-106S	—	—	SB915-0070-03	10/31/12	1411	W-GW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-MW-106I	—	—	SB915-0070-04	10/31/12	1445	W-GW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
5				SB915- -05																		
6				SB915- -06																		
7				SB915- -07																		
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	10-31-12 / 1556	[signature]	Syn	10-31-12 / 15:56			
[signature]	Syn	10-31-12 / 19:00	[signature]	TVAH	0930 / 11/1/12			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180 - 16019

3.8, 4.9 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 08609.59845
COC #: SB915-0071
Lab Use Only
Lab Proj #:
Lab ID:

Privileged & Confidential:
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No:

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
											Units												
1	SB915-MW-116S	—	—	SB915-0071-01	11/1/12	1110	w-GW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
2	SB915-MW-116S	—	—	SB915-0071-02	11/1/12	1110	QC	water	MS	8	G	N		X	X	X	X	X	X	X	X	X	
3	SB915-MW-116S	—	—	SB915-0071-03	11/1/12	1110	QC	water	MSD	8	G	N		X	X	X	X	X	X	X	X	X	
4	SB915-MW-04	—	—	SB915-0071-04	11/1/12	1120	w-GW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
5	SB915-MW-115BR	—	—	SB915-0071-05	11/1/12	1310	w-GW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
6	SB915-FD-0071	—	—	SB915-0071-06	11/1/12	—	QC	water	FD	8	G	N		X	X	X	X	X	X	X	X	X	
7	SB915-MW-104I	—	—	SB915-0071-07	11/1/12	1450	w-GW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
8				SB915-0071-08																			
9				SB915-0071-09																			
10				SB915-0071-10																			
11				SB915-0071-11																			
12				SB915-0071-12																			

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Sym	Condition	Custody Seals Intact
	Date/Time	11/1/12 1600		Date/Time	11-01-12 16:00	Cooler Temp.	
Relinquished by	Company	Sym	Received by	Company	TAP.H	Condition	Custody Seals Intact
	Date/Time	11-01-12, 1900		Date/Time	11-3-12 9:00	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-16029

2.7.23 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0072
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
1	SB915-MW-36D	—	—	SB915-0072-01	11-2-12	1130	~~w~~-GW MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-MW-36I	—	—	SB915-0072-02	11-2-12	1145	~~w~~-GW MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-MW-104S	—	—	SB915-0072-03	11-2-12	1220	~~w~~-GW MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-EB-0072	—	—	SB915-0072-04	11-2-12	1400	QC	water	EB	8	—	—	X	X	X	X	X	X	X	X	X	
5				SB915- -05																		
6				SB915- -06																		
7				SB915- -07																		
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
L. Pease	O'Brien & Gere	11-2-12 1501	R English	Sgr	11-02-12 1501			
R English	Sgr	11-2-12 1500	Nover	TAPH	11-3-12 9:00			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-16063

3.7, 4.2 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AFSI Ref: 38609/59845
COC #: SB915-0073
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

EDD To: Chuck Sharpe

Sampler:

PO #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Job No.

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfite/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID						Units																
1	SB915-MW-107I	—	—	SB915-0073-01	11-5-12	1125	Gw-mw	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
2	SB915-MW-107D	—	—	SB915-0073-02	11-5-12	1135	Gw-mw	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
3	SB915-MW-107BR	—	—	SB915-0073-03	11-5-12	1250	Gw-mw	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
4	SB915-MW-107S	—	—	SB915-0073-04	11-5-12	1330	Gw-mw	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
5				SB915- -05																						
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company: O'Brien & Gere	Received by	Company: Syn	Condition		Custody Seals Intact	
	Date/Time: 11-5-12 / 1530		Date/Time: 11-05-12 15:30	Cooler Temp.			
Relinquished by	Company: DG	Received by	Company: TA	Condition		Custody Seals Intact	
	Date/Time: 11-5-12 19:00		Date/Time: 11-6-12 9:00	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

26 3-#1

16122

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0074
Lab Use Only
Lab Proj #:
Lab ID:
Job No.

Privileged & Confidential:
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
											Units															
1	SB915-MW-117S	—	—	SB915-0074-01	11.6.12	1452	GW-MW ~~MW-GW~~	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
2	SB915-PZ-07D	—	—	SB915-0074-02	11.6.12	1130	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
3	SB915-PZ-07I	—	—	SB915-0074-03	11.6.12	1130	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
4	SB915-MW-03	—	—	SB915-0074-04	11.6.12	1025	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
5	~~SB915-MW-10SBR~~	~~—~~	~~—~~	~~SB915-0074-05~~	~~11.6.12~~	~~—~~	~~GW-MW~~	~~water~~	~~Reg~~	~~8~~	~~G~~	~~N~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	(13)				
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

*No sample collected for field sample ID SB915-0074-05

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syn	Condition		Custody Seals Intact	
[signature]	Date/Time	11-6-12 1538	[signature]	Date/Time 11-6-12	1338	Cooler Temp.			
Relinquished by [signature]	Company	Syn	Received by	Company TVAH		Condition		Custody Seals Intact	
	Date/Time	11-6-12, 13:38		Date/Time 11/7/12	0915	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

4.0 3.3 #1

1615

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0075
Lab Use Only
Lab Proj #
Lab ID:

Privileged & Confidential

EDD To: Chuck Sharpe

Sampler:

P O #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Job No:

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID																						
										Units																
1	GWBR-MW-14D	—	—	SB915-0075-01	11-7-12	1100	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
2	GWBR-MW-14BR	—	—	SB915-0075-02	11-7-12	1135	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
3	SB915-MW-112S	—	—	SB915-0075-03	11-7-12	1335	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
4	SB915-MW-112I	—	—	SB915-0075-04	11-7-12	1350	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
5	SB915-MW-105BR	—	—	SB915-0075-05	11-7-12	1325	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X					
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company: O'Brien & Gere	Received by	Company: SyR	Condition		Custody Seals Intact	
	Date/Time: 11-7-12 / 1533		Date/Time: 11-8-12 / 1533	Cooler Temp.			
Relinquished by	Company:	Received by	Company: TURN	Condition		Custody Seals Intact	
	Date/Time: 11-07-12 / 19:00		Date/Time: 11/9/12 0915	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

TKN → N. CTN. - RE.

3.6 #1

16212

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC#: SB915-0076
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
PO#
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
											Units											
1	SB915-WB-03L	—	—	SB915-0076-01	11-8-12	1300	MW-GW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2				SB915- -02																		
3				SB915- -03																		
4				SB915- -04																		
5				SB915- -05																		
6				SB915- -06																		
7				SB915- -07																		
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
Edwin B Kahn	O'Brien & Gere	11/8/12 1515	R English	Syn Re	11-8-12 19:00	15:15		
R English	Syn	11-8-12 19:00		TAPH	11/9/12 0930			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

TKN → N. Canton from Syr. - RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0077
Lab Use Only
Lab Proj #:
Lab ID:
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3 (SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
1	SB915-WB-09U	—	—	SB915-0077 -01	11.9.12	1125	MW-GW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-MW-113S	—	—	SB915-0077 -02	11.9.12	1119	MW-GW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-WB-09L	—	—	SB915-0077 -03	11.9.12	1230	MW-GW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-IMW-02S	—	—	SB915-0077 -04	11.9.12	1417	MW-GW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
5	SB915-IMW-03S	—	—	SB915-0077 -05	11.9.12	1504	MW-GW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
6	SB915-IMW-04S	—	—	SB915-0077 -06	11.9.12	1440	MW-GW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
7				SB915- -07																		
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	11-9-12	Condition		Custody Seals Intact	
[signature]	Date/Time	11.9.12 / 1547	[signature]	Date/Time	0549	Cooler Temp.			
Relinquished by	Company	TA Syr	Received by	Company	TA Pitt	Condition		Custody Seals Intact	
R English	Date/Time	11-09-12 19:00	[signature]	Date/Time	11/10/12 9:00	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

2.4 2.4 3.3 #1

1631

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0078
Lab Use Only
Lab Proj #:
Lab ID:

Privileged & Confidential:
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Sample Identification					Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
1	SB915-WB-01L	—	—	SB915-0078 -01	11-12-12	1216	GW-MW	water	Reg	8	G	W		X	X	X	X	X	X	X	X	X					
2	SB915-MW-85D	—	—	SB915-0078 -02	11-12-12	1210	GW-MW	water	Reg	8	G	W		X	X	X	X	X	X	X	X	X					
3	SB915-MW-85D	—	—	SB915-0078 -03	11-12-12	1210	QC	water	MS	8	G	W		X	X	X	X	X	X	X	X	X					
4	SB915-MW-85D	—	—	SB915-0078 -04	11-12-12	1210	QC	water	MSD	8	G	W		X	X	X	X	X	X	X	X	X					
5	SB915-WB-10L	—	—	SB915-0078 -05	11-12-12	1413	GW-MW	water	Reg	8	G	W		X	X	X	X	X	X	X	X	X					
6	SB915-IMW-06S	—	—	SB915-0078 -06	11-12-12	1438	GW-MW	water	Reg	8	G	W		X	X	X	X	X	X	X	X	X					
7	SB915-IMW-05S	—	—	SB915-0078 -07	11-12-12	1455	GW-MW	water	Reg	8	G	W		X	X	X	X	X	X	X	X	X					
8				SB915- -08																							
9				SB915- -09																							
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

From TA Syracuse:

TKN to N. Canton,
Hex, if any, to Edison,
Dioxin, if any, to Knoxville,
Balance to Pittsburgh.

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company		Condition		Custody Seals Intact	
	Date/Time	11-12-12 / 1533		Date/Time	11/12-12	Cooler Temp.			
Relinquished by	Company	11-12-12	Received by	Company		Condition		Custody Seals Intact	
	Date/Time	18:30		Date/Time	11/13/12 0930	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

TKN → N. CANTON. - R.E. 24 2 3 #1

16354

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0079
Lab Use Only

Privileged & Confidential:
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York
Lab Proj #
Lab ID
Job No:

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID									Units										
1	SB915-MW-70D	—	—	SB915-0079-01	11-13-12	1130	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
2	SB915-MW-70S	—	—	SB915-0079-02	11-13-12	1135	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
3	SB915-WB-05P	—	—	SB915-0079-03	11-13-12	1320	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
4	SB915-WB-05L	—	—	SB915-0079-04	11-13-12	1240	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
5	SB915-FD-0079	—	—	SB915-0079-05	11-13-12	—	QC	water	FD	8	G	N		X	X	X	X	X	X	X	X	X	
6				SB915-0079-06																			
7				SB915-0079-07																			
8				SB915-0079-08																			
9				SB915-0079-09																			
10				SB915-0079-10																			
11				SB915-0079-11																			
12				SB915-0079-12																			

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	11-13-12	Condition		Custody Seals Intact	
	Date/Time	11-13-12 1533		Date/Time		15:33	Cooler Temp.		
Relinquished by	Company	Syn	Received by	TMA/H Company			Condition		Custody Seals Intact	
	Date/Time	11-13-12 19:00		11/14/12		0930	Cooler Temp.		

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

TKN → N.CTN from SYR. -RE

Chain Of Custody / Analysis Request

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

AESI Ref: 38609.59845
COC #: SB915-0080
Lab Use Only
Lab Proj #
Lab ID
Job No.

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y / N
Rush Charges Authorized for -
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Sample Identification					Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample #	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units			GW									
1	SB915-MW-60S	—	—	SB915-0080 -01	11-14-12	1020	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
2	SB915-MW-59S	—	—	SB915-0080 -02	11-14-12	1140	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
3	SB915-WB-05M	—	—	SB915-0080 -03	11-14-12	1040	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
4	SB915-WB-10U	—	—	SB915-0080 -04	11-14-12	1015	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
5	SB915-WB-07L	—	—	SB915-0080 -05	11-14-12	1243	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
6	SB915-WB-07U	—	—	SB915-0080 -06	11-14-12	1245	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
7	SB915-IMW-01S	—	—	SB915-0080 -07	11-14-12	1310	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X	
8	SB915-EB-0080	—	—	SB915-0080 -08	11-14-12	1425	QC	water	EB	8	—	—		X	X	X	X	X	X	X	X	X	
9				SB915- -09																			
10				SB915- -10																			
11				SB915- -11																			
12				SB915- -12																			

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company: O'Brien & Gere	Received by	Company: SYR	Condition		Custody Seals Intact	
	Date/Time: 1530 11-14-12		Date/Time: 11-14-12 1630	Cooler Temp.			
Relinquished by	Company: SYR	Received by	Company: TAR-H	Condition		Custody Seals Intact	
	Date/Time: 11-14-12 19:00		Date/Time: 11-15-12 9:00	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

TKN → N/C from Syr.

180-16448

3.7, 2.1, 24 #2

Chain Of Custody / Analysis Request

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

AESI Ref: 38609.59845
COC#: SB915-0081
Lab Use Only
Lab Proj #:
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
PO #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units												
1	SB915-MW-109E	—	—	SB915-0081 -01	11-15-12	1140	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-MW-109S	—	—	SB915-0081 -02	11-15-12	~~1140~~ 1110	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-MW-116S	—	—	SB915-0081 -03	11-15-12	1150	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-WR-07R	—	—	SB915-0081 -04	11-15-12	1250	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
5	SB915-MW-111S	—	—	SB915-0081 -05	11-15-12	1450	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
6	SB915-MW-111I	—	—	SB915-0081 -06	11-15-12	1430	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
7	SB915-MW-111S	—	—	SB915-0081 -07	11-15-12	1430	QC	water	MS	8	G	N	X	X	X	X	X	X	X	X	X	
8	SB915-MW-111I	—	—	SB915-0081 -08	11-15-12	1430	QC	water	MSD	8	G	N	X	X	X	X	X	X	X	X	X	
9	SB915-MW-111D	—	—	SB915-0081 -09	11-15-12	1440	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company: O'Brien & Gere	Received by	Company: Syr	Condition		Custody Seals Intact	
	Date/Time: 11-15-12 / 1535		Date/Time: 11-15-12 / 18:35	Cooler Temp.			
Relinquished by	Company: SY	Received by	Company: TA 0.7+	Condition		Custody Seals Intact	
	Date/Time: 11-15-12 / 19:20		Date/Time: 11-16-12 / 930	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

L80-16503

28 #2

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC#: SB915-0082
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
1	SB915-MW-06	—	—	SB915-0082-01	11-16-12	1100	Gr-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
2	SB915-MW-108D	—	—	SB915-0082-02	11-16-12	1207	Gr-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
3	SB915-MW-108BR	—	—	SB915-0082-03	11-16-12	1157	Gr-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
4	SB915-FD-0082	—	—	SB915-0082-04	11-16-12	—	QC	water	FD	8	G	N		X	X	X	X	X	X	X	X	X					
5				SB915- -05																							
6				SB915- -06																							
7				SB915- -07																							
8				SB915- -08																							
9				SB915- -09																							
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company		Condition	Custody Seals Intact
	Date/Time	11-16-12 1455		Date/Time	11-16-12	Cooler Temp.	
Relinquished by	Company		Received by	Company	TAC-FF	Condition	Custody Seals Intact
	Date/Time	11-16-12		Date/Time	11-17-12	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

TKN 2.7 2.4 #1 Canton from Syr. - RE 16551

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0083
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
1	SB915-MW-111BR	—	—	SB915-0083 -01	11-19-12	1326	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-MW-S3D	—	—	SB915-0083 -02	11-19-12	1225	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-MW-S3I	—	—	SB915-0083 -03	11-19-12	1230	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-EB-0083	—	—	SB915-0083 -04	11-19-12	1400	QC	water	EB	8	G	N	X	X	X	X	X	X	X	X	X	
5				SB915- -05																		
6				SB915- -06																		
7				SB915- -07																		
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	11/19/12 1435	[signature]	SY	11-19-12 1435			
[signature]	SY	11-19-12 1900	[signature]	[signature]	0945 11/20/12			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-16613 4.5 #12

TKN ⇒ N/CANTON. -RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0084
Lab Use Only
Lab Proj #:
Lab ID:
Job No:

Privileged & Confidential

EDD To: Chuck Sharpe

Sampler:

PO #

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B); See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units											
1	SB915-MW-42D	—	—	SB915-0084-01	11-20-12	1118	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-MW-42I	—	—	SB915-0084-02	11-20-12	1130	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-MW-01	—	—	SB915-0084-03	11-20-12	1400	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
4				SB915- -04																		
5				SB915- -05																		
6				SB915- -06																		
7				SB915- -07																		
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company: O'Brien & Gere	Received by	Company: SyA	Condition		Custody Seals Intact	
	Date/Time: 11-20-12 / 1420		Date/Time: 11-20-12 / 14:20	Cooler Temp.			
Relinquished by	Company: SyA	Received by	Company: TA	Condition		Custody Seals Intact	
	Date/Time: 11-20-12 / 19:00		Date/Time: 11-21-12 / 920	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Appendix G-4

Round 4 Groundwater

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0085
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:

P O #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Job No.

Lab Sample Numbers

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
1	SB915-MW-118S	—	—	SB915-0085-01	2/4/13	1225	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
2	SB915-MW-118BR	—	—	SB915-0085-02	2/4/13	1211	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
3	SB915-EB-0085	—	—	SB915-0085-03	2/4/13	1342	QC	water	EB	8	-	-		X	X	X	X	X	X	X	X	X					
4				SB915- -04																							
5				SB915- -05																							
6				SB915- -06																							
7				SB915- -07																							
8				SB915- -08																							
9				SB915- -09																							
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company		Condition	Custody Seals Intact
	Date/Time	2.4.13 / 1600		Date/Time		Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0086
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Sample Identification					Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
1	SB915-MW-106S	—	—	SB915-0086-01	2-5-13	1122	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
2	SB915-MW-106S	—	—	SB915-0086-02	2-5-13	1122	QC	water	MS	8	G	N		X	X	X	X	X	X	X	X	X					
3	SB915-MW-106S	—	—	SB915-0086-03	2-5-13	1122	QC	water	MSD	8	G	N		X	X	X	X	X	X	X	X	X					
4	SB915-MW-106I	—	—	SB915-0086-04	2-5-13	1105	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
5	SB915-MW-116S	—	—	SB915-0086-05	2-5-13	1142	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
6	SB915-MW-116BR	—	—	SB915-0086-06	2-5-13	1400	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
7	SB915-FD-0086	—	—	SB915-0086-07	—	—	QC	water	FD	8	G	N		X	X	X	X	X	X	X	X	X					
8	SB915-MW-04I	—	—	SB915-0086-08	2-5-13	1405	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
9	SB915-MW-117S	—	—	SB915-0086-09	2-5-13	1355	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
10				SB915--10																							
11				SB915--11																							
12				SB915--12																							

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Sgs	Condition		Custody Seals Intact	
	Date/Time	2-5-13/1611		Date/Time	02-05-13 16:11	Cooler Temp.			
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
	Date/Time			Date/Time		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915-0087
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
											Units															
1	SB915-MW-107S			SB915-0087-01	2/6/13	10:40	GW-MW	water	Reg	8			X	X	X	X	X	X	X	X	X					
2	SB915-MW-107BR			SB915-0087-02	2/6/13	11:15	GW-MW	water	Reg	8			X	X	X	X	X	X	X	X	X					
3	SB915-MW-107I			SB915-0087-03	2/6/13	14:00	GW-MW	water	Reg	8			X	X	X	X	X	X	X	X	X					
4	SB915-MW-107D			SB915-0087-04	2/6/13	1455	GW-MW	water	Reg	8			X	X	X	X	X	X	X	X	X					
5				SB915- -05																						
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syn	Condition		Custody Seals Intact	
Timothy B Reade	Date/Time	2/6/13 1601	R English	Date/Time 02-06-13	16:01	Cooler Temp.			
Relinquished by	Company	Syn	Received by	Company		Condition		Custody Seals Intact	
R English	Date/Time 02-06-13	19:00		Date/Time		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915-0088
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative: Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units											
1	SB915-PZ-07S	—	—	SB915-0088-01	2-7-13	1030	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-PZ-07I	—	—	SB915-0088-02	2-7-13	1055	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-PZ-07D	—	—	SB915-0088-03	2-7-13	1129	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-MW-01	—	—	SB915-0088-04	2-7-13	1230	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
5	SB915-MW-36S	—	—	SB915-0088-05	2-7-13	1330	GW-MW	water	Reg	11	G	N	X	X	X	X	X	X	X	X	X	
6	SB915-MW-36I	—	—	SB915-0088-06	2-7-13	1355	GW-MW	water	Reg	11	G	N	X	X	X	X	X	X	X	X	X	
7	SB915-MW-36D	—	—	SB915-0088-07	2-7-13	1415	GW-MW	water	Reg	11	G	N	X	X	X	X	X	X	X	X	X	
8	SB915-MW-03	—	—	SB915-0088-08	2-7-13	1400	GW MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company: O'Brien & Gere	Received by	Company		Condition		Custody Seals Intact	
	Date/Time: 2-7-13/1548		Date/Time		Cooler Temp.			
Relinquished by	Company	Received by	Company		Condition		Custody Seals Intact	
	Date/Time		Date/Time		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-18709

2-7, 2.4 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0090
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Sampler:

P O #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Job No

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID						Units															
1	SB915-MW-111S	—	—	SB915-0090-01	2-8-13	1205	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X				
2	SB915-MW-111I	—	—	SB915-0090-02	2-8-13	1153	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X				
3	SB915-MW-111D	—	—	SB915-0090-03	2-8-13	1200	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X				
4	SB915-MW-111BR	—	—	SB915-0090-04	2-8-13	1300	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X				
5				SB915- -05																					
6				SB915- -06																					
7				SB915- -07																					
8				SB915- -08																					
9				SB915- -09																					
10				SB915- -10																					
11				SB915- -11																					
12				SB915- -12																					

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity

Relinquished by	Company: O'Brien & Gere	Received by	Company: SGS	Condition		Custody Seals Intact	
	Date/Time: 2-8-13 / 1504		Date/Time: 02-08-13 / 1508	Cooler Temp.			
Relinquished by	Company: SGS	Received by	Company: TACET	Condition		Custody Seals Intact	
	Date/Time: 02-08-13 / 19:00		Date/Time: 2-9-13 / 915	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915-0091
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

Lab Sample Numbers

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)
	Units										G	N										
1	SB915-WB-05M	—	—	SB915-0091-01	2-11-13	1130	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X
2	SB915-	—	—	SB915-0091-02	2-11-13	1120	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X
3	SB915-WB-05L	—	—	SB915-0091-03	2-11-13	1155	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X
4	SB915-WB-05L	—	—	SB915-0091-04	2-11-13	1155	QC	water	MS	11	G	N		X	X	X	X	X	X	X	X	X
5	SB915-WB-05L	—	—	SB915-0091-05	2-11-13	1155	QC	water	MSD	11	G	N		X	X	X	X	X	X	X	X	X
6	SB915-	—	—	SB915-0091-06	2-11-13	1223	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X
7	SB915-MW-59S	—	—	SB915-0091-07	2-11-13	1220	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X
8	SB915-MW-70S	—	—	SB915-0091-08	2-11-13	1335	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X
9	SB915-MW-70D	—	—	SB915-0091-09	2-11-13	1345	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X
10	SB915-MW-108D	—	—	SB915-0091-10	2-11-13	1453	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X
11	SB915-MW-108BR	—	—	SB915-0091-11	2-11-13	1525	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X
12	SB915-EB-0091	—	—	SB915-0091-12	2-11-13	1445	QC	water	EB	8	G	N		X	X	X	X	X	X	X	X	X

Location ID for SB915-0091-02 = SB915-WB-05U and SB915-0091-06 = SB915-WB-05R
C. Sharpe 02/12/13

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company: O'Brien & Gere	Received by	Company: Sigl	Condition		Custody Seals Intact	
	Date/Time: 2-11-13 / 1605		Date/Time: 02-11-13 16:05	Cooler Temp.			
Relinquished by: RENglish	Company: Sigl	Received by	Company	Condition		Custody Seals Intact	
	Date/Time: 02-11-13 19:00		Date/Time	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-18758 3.0.22 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0092
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
1	SB915-MW-53I	—	—	SB915-0092-01	2-12-13	1204	GW-MW	water	Reg	11	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-MW-53D	—	—	SB915-0092-02	2-12-13	1154	GW-MW	water	Reg	11	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-FD-0092	—	—	SB915-0092-03	2-12-13	—	~~GW~~ QC	water	FD	11	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-MW-109S	—	—	SB915-0092-04	2-12-13	1125	GW-MW	water	Reg	11	G	N	X	X	X	X	X	X	X	X	X	
5	SB915-MW-109I	—	—	SB915-0092-05	2-12-13	1230	GW-MW	water	Reg	11	G	N	X	X	X	X	X	X	X	X	X	
6				SB915- -06																		
7				SB915- -07																		
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	2-12-13 / 1533	R English	Syn	02-13-12 / 15:33			
R English	Syn	02-12-13 / 19:00	Mom	TA Pitt	2-13-12 / 930			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

480-18814

3-8, 4-1, 2-7 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0093
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Sampler:

P O #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Job No:

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units												
1	SB915-WB-07L	—	—	SB915-0093-01	2-13-13	1103	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X	
2	SB915-WB-07U	—	—	SB915-0093-02	2-13-13	1100	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X	
3	SB915-WB-07R	—	—	SB915-0093-03	2-13-13	1120	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X	
4	SB915-IMW-06S	—	—	SB915-0093-04	2-13-13	1325	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X	
5	SB915-MW-10S	—	—	SB915-0093-05	2-13-13	1300	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X	
6	SB915-IMW-05S	—	—	SB915-0093-06	2-13-13	1330	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X	
7	SB915-IMW-01S	—	—	SB915-0093-07	2-13-13	1354	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X	
8				SB915- -08																			
9				SB915- -09																			
10				SB915- -10																			
11				SB915- -11																			
12				SB915- -12																			

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

TKN To Match Cam Fm Sycrec TW

Relinquished by	Company: O'Brien & Gere	Received by	Company: TALS	Condition		Custody Seals Intact	
	Date/Time: 2-13-13 / 1531		Date/Time: 2-13-13	Cooler Temp.			
Relinquished by TALS	Company	Received by	Company: TALS-FF	Condition		Custody Seals Intact	
	Date/Time: 2-13-13 18:30		Date/Time: 2-14-13 930	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-18871 3.8, 4.2 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0094
Lab Use Only
Lab Proj #
Lab ID
Job No

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
1	SB915-MW-113S	—	—	SB915-0094 -01	2-14-13	1042	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
2	SB915-WB-09L	—	—	SB915-0094 -02	2-14-13	1115	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
3	SB915-MW-112S	—	—	SB915-0094 -03	2-14-13	1205	GW-MW	water	Reg	11	G	N	X	X	X	X	X	X	X	X	X	
4	SB915-MW-112I	—	—	SB915-0094 -04	2-14-13	1210	GW-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X	
5	SB915-MW-110S	—	—	SB915-0094 -05	2-14-13	1210	GW-MW	water	Reg	11	G	N	X	X	X	X	X	X	X	X	X	
6				SB915- -06																		
7				SB915- -07																		
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

TKN to North Carolina - From Syracuse → (NW)

Relinquished by	Company	O'Brien & Gere	Received by	Company	TACSY	Condition		Custody Seals Intact	
[signature]	Date/Time	2-14-13 / 1533	[signature]	Date/Time	2-14-13 15:33	Cooler Temp.			
Relinquished by	Company	18:30	Received by	Company	TAB	Condition		Custody Seals Intact	
[signature] TACSY	Date/Time	2-14-13	[signature]	Date/Time	2-15-13 900	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-18898

3.2 #2

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0095
Lab Use Only

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Lab Proj #
Lab ID

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units												
1 SB915-WR-03L	—	—	SB915-0095-01	~~2-15-13~~ 2-15-13	1200	GW-MW	water	Reg	11	6	N		X	X	X	X	X	X	X	X	X	
2 SB915-WR-10U	—	—	SB915-0095-02	2-15-13	1340	GW-MW	water	Reg	11	6	N		X	X	X	X	X	X	X	X	X	
3 SB915-EB-0095	—	—	SB915-0095-03	2-15-13	1433	QC	water	EB	11	—	-		X	X	X	X	X	X	X	X	X	
4			SB915- -04																			
5			SB915- -05																			
6			SB915- -06																			
7			SB915- -07																			
8			SB915- -08																			
9			SB915- -09																			
10			SB915- -10																			
11			SB915- -11																			
12			SB915- -12																			

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	SyR	Condition		Custody Seals Intact	
	Date/Time	2-15-13 1455		Date/Time 02-15-13	14:55	Cooler Temp.			
Relinquished by	Company	SyR	Received by	Company	TA Pitt	Condition		Custody Seals Intact	
	Date/Time 02-15-13	19:00		Date/Time 2-16-13	900	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

18923

1.7 1.3
#3

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0696
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Sampler:

P O #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Job No.

Sample Identification					Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units															
1	SB915-IMW-04S	—	—	SB915-0096-01	2-18-13	1122	Gw MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
2	SB915-IMW-03S	—	—	SB915-0096-02	2-18-13	1300	Gw MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X				
3	SB915-IMW-03S	—	—	SB915-0096-03	2-18-13	1300	QC	water	MS	11	G	N		X	X	X	X	X	X	X	X	X				
4	SB915-IMW-03S	—	—	SB915-0096-04	2-18-13	1300	QC	water	MSD	11	G	N		X	X	X	X	X	X	X	X	X				
5	SB915-IMW-02S	—	—	SB915-0096-05	2-18-13	1215	Gw MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X				
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	SGS	Condition	Custody Seals Intact
	Date/Time	2-18-13 | 1532		Date/Time	02-18-13 | 18:32	Cooler Temp.	
Relinquished by	Company	SGS	Received by	Company	TA PITT	Condition	Custody Seals Intact
	Date/Time	02-18-13 | 19:00		Date/Time	2-19-13 | 0915	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-18953

3.1, 2.2 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0097
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Job No.

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
1	SB915-MW-104I	—	—	SB915-0097-01	2-19-13	1044	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X					
2	SB915-FD-0097	—	—	SB915-0097-02	2-19-13	—	QC	water	FD	8	G	N		X	X	X	X	X	X	X	X	X					
3	SB915-MW-105BR	—	—	SB915-0097-03	2-19-13	1100	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X					
4	SB915-MW-42D	—	—	SB915-0097-04	2-19-13	1330	GW-MW	water	Reg J	8	G	N		X	X	X	X	X	X	X	X	X					
5				SB915--05																							
6				SB915--06																							
7				SB915--07																							
8				SB915--08																							
9				SB915--09																							
10				SB915--10																							
11				SB915--11																							
12				SB915--12																							

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	TACSY	15:25	Condition
	Date/Time	2-19-13 / 1526		Date/Time	2-19-13		Cooler Temp.
Relinquished by	Company	Sym	Received by	Company	TA Staff		Condition
	Date/Time	02-19-13 / 19:00		Date/Time	2-20-13	930	Cooler Temp.

Custody Seals Intact

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180- 18986

2.2.3.1 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0098
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3 (SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID						Units															
1	SB915-WB-01L	—	—	SB915-0098-01	2-20-13	1022	Grab-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X				
2	SB915-MW-85D	—	—	SB915-0098-02	2-20-13	1125	Grab-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X				
3	SB915-MW-60S	—	—	SB915-0098-03	2-20-13	1056	Grab-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X				
4	SB915-MW-42I	—	—	SB915-0098-04	2-20-13	1406	Grab-MW	water	Reg	8	G	N	X	X	X	X	X	X	X	X	X				
5				SB915- -05																					
6				SB915- -06																					
7				SB915- -07																					
8				SB915- -08																					
9				SB915- -09																					
10				SB915- -10																					
11				SB915- -11																					
12				SB915- -12																					

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	SyK	Condition		Custody Seals Intact	
	Date/Time	2-20-13 / 1537		Date/Time	02-20-13 / 15:37	Cooler Temp.			
Relinquished by	Company	SyK	Received by	Company	TAO. TL	Condition		Custody Seals Intact	
	Date/Time	02-20-13 / 19:00		Date/Time	2-21-13 / 900	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-19070

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-0099
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

EDD To: Chuck Sharpe

Sampler:

P O #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Job No.

Lab Sample Numbers

	Sample Identification: Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)
											Units											
1	SB915-WR-06	—	—	SB915-0099-01	2-21-13	1020	GW-MW	water	Reg	11	G	N		X	X	X	X	X	X	X	X	X
2	SB915-WR-06	—	—	SB915-0099-02	2-21-13	1020	QC	water	MS	11	G	N		X	X	X	X	X	X	X	X	X
3	SB915-WR-06	—	—	SB915-0099-03	2-21-13	1020	QC	water	MSD	11	G	N		X	X	X	X	X	X	X	X	X
4	WSI8 ~~SB915~~-MW-14RR	—	—	SB915-0099-04	2-21-13	1220	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X
5	SB915-FD-0099	—	—	SB915-0099-05	2-21-13	—	QC	water	FD	8	G	N		X	X	X	X	X	X	X	X	X
6	WSI8-MW-14D	—	—	SB915-0099-06	2-21-13	1145	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X
7	SB915-WR-10L	—	—	SB915-0099-07	2-21-13	1240	GW-MW	water	Reg	8	G	N		X	X	X	X	X	X	X	X	X
8	SB915-ER-0099	—	—	SB915-0099-08	2-21-13	1445	QC	water	EB	8	G	N		X	X	X	X	X	X	X	X	X
9				SB915-0099-09																		
10				SB915-0099-10																		
11				SB915-0099-11																		
12				SB915-0099-12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

TKN Tot Nitr Carbon from Syr (TW)

Relinquished by	Company	O'Brien & Gere	Received by	TMC	Company		Condition
	Date/Time	2-21-13/1530			Date/Time	2-21-13	Cooler Temp.
Relinquished by	Company		Received by		Company		Condition
	Date/Time	2-21-13 18:30			Date/Time	2/22/13 0950	Cooler Temp.

Custody Seals Intact

Custody Seals Intact

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Appendix G-5

Rounds 1 through 4 Subsurface Leachate

42 3.8 3.5 3.4 2.8

From Syr: PCBs, Diox → Kxville; LLHgs, Phos → N. Canton; Bal → Pitts (Hex to Edison on separate COC). - R.E.

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3083
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
1	SB915-MH-01			SB915-3083-01	5/9/12	1110	LCH	water	REG	24			X	X	X	X	X	X	X	X	X		X	X	X	
2	SB915-MH-02			SB915-3083-02	5/9/12	1135	LCH	water	REG	24			X	X	X	X	X	X	X	X	X		X	X	X	
3	SB915-MH-03			SB915-3083-03	5/9/12	1215	LCH	water	REG	~~24~~ 23			X	X	X	X	X	X	X	X	X		X	X	X	
4	SB915-MH-10			SB915-3083-04	5/9/12	1400	LCH	water	REG	24			X	X	X	X	X	X	X	X	X		X	X	X	
5	SB915-MH-10			SB915-3083-05	5/9/12	1400	QC	water	MS	24			X	X	X	X	X	X	X	X	X		X	X	X	
6	SB915-MH-10			SB915-3083-06	5/9/12	1400	QC	water	MSD	24			X	X	X	X	X	X	X	X	X		X	X	X	
7	SB915-PCP-01			SB915-3083-07	5/9/12	1325	LCH	water	REG	24			X	X	X	X	X	X	X	X	X		X	X	X	
8	SB915-TB-3083			SB915- -08	5/19/12	—	QC	water	TB	1			X													
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition		Custody Seals Intact	
[signature]	Date/Time	5/9/12 1630	[signature]	Date/Time 05-09-12	16:30	Cooler Temp.			
Relinquished by	Company	Syr	Received by	Company		Condition		Custody Seals Intact	
[signature]	Date/Time 05-09-12	19:00	[signature]	Date/Time 5/10/12	0930	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-10586

HEX → EDISON FROM SYRACUSE. -RE

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3083A
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

TDD To: Chuck Sharpe

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Sampler:

P O #

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																Lab Sample Numbers
1	SB915-MH-01			SB915-3083A-01	5/1/12	1310	LCH	water	REG	1												X					
2	SB915-MH-02			SB915-3083A-02	5/1/12	1305	LCH	water	REG	1												X					
3	SB915-MH-03			SB915-3083A-03	5/1/12	1300	LCH	water	REG	1												X					
4	SB915-MH-10			SB915-3083A-04	5/1/12	1400	LCH	water	REG	1												X					
5	SB915-MH-10			SB915-3083A-05	5/1/12	1400	QC	water	MS	1												X					
6	SB915-MH-10			SB915-3083A-06	5/1/12	1400	QC	water	MSD	1												X					
7	SB915-PCP-01			SB915-3083A-07	5/1/12	1325	LCH	water	REG	1												X					
8				SB915- -08																							
9				SB915- -09																							
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syn	Condition		Custody Seals Intact	
	Date/Time	5/1/12 1630		Date/Time	05-09-12 16:30	Cooler Temp.			
Relinquished by	Company	Syn	Received by	Company		Condition		Custody Seals Intact	
	Date/Time	05-09-12 19:00		Date/Time		Cooler Temp.		5/10/2012 10:00	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

1.3°C 50

SHORT HOLD

From SYR: PCB., Diox. → Knoxville; TKN, COD's → N. Canton; BAI → Pittsburgh; (Hex on sep. COC) - RE

To Edison

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3084
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
LDD To: Chuck Sharpe
Sampler: CWS, MRM, AKM
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Sample Identification					Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																	
1	SB915-MH-04	—	—	SB915-3084-01	5/10/12	910	LCH	Water	REG					X	X	X	X	X	X	X	X	X		X	X	X	
2	SB915-MH-05	—	—	SB915-02		945								X	X	X	X	X	X	X	X	X		X	X	X	
3	SB915-MH-06	—	—	SB915-03		1015								X	X	X	X	X	X	X	X	X		X	X	X	
4	SB915-MH-08	—	—	SB915-04		1145								X	X	X	X	X	X	X	X	X		X	X	X	
5	SB915-MH-09	—	—	SB915-05		1245								X	X	X	X	X	X	X	X	X		X	X	X	
6	SB915-FD-3084	—	—	SB915-06		—	QC		FD					X	X	X	X	X	X	X	X	X		X	X	X	
7	SB915-MH-10	—	—	SB915-07		1400	LCH		REG					X	X	X	X	X	X	X	X	X		X	X	X	
8	SB915-MH-12	—	—	SB915-08		1450								X	X	X	X	X	X	X	X	X		X	X	X	
9	SB915-MH13	—	—	SB915-09		1540								X	X	X	X	X	X	X	X	X		X	X	X	
10	SB915-MH-14	—	—	SB915-10		1605								X	X	X	X	X	X	X	X	X		X	X	X	
11	SB915-TB-3084			SB915-11		—	QC		TB					X													
12				SB915-12																							

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	SyR	Condition	Custody Seals Intact
	Date/Time	5/10/12 1635		Date/Time 05-10-12	16:37	Cooler Temp.	
Relinquished by	Company	SyR	Received by	Company		Condition	Custody Seals Intact
	Date/Time 05-10-12	19:02		Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

HEX → EDISON FROM SYRACUSE - RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3084A
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler: RWS, MRM, AKM
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

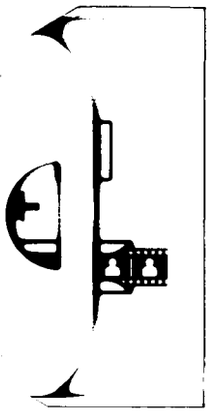
Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units		Preservative													
1	SB915-MH-04	—	—	SB915-3084A-01	5/10/12	1215	LCH	Water	REG													X				
2	SB915-MH-05	—	—	SB915-3084A-02		1330																X				
3	SB915-MH-06	—	—	SB915-03		1335																X				
4	SB915-MH-08	—	—	SB915-04		1345																X				
5	SB915-MH-09	—	—	SB915-05		1245																X				
6	SB915-FB3084A	—	—	SB915-06		—	QC		FD													X				
7	SB915-MH-10	—	—	SB915-07		1415	LCH		REG													X				
8	SB915-MH12	—	—	SB915-08		1450																X				
9	SB915-MH-13	—	—	SB915-09		1540																X				
10	SB915-MH-14	—	—	SB915-10		1605																X				
11				SB915-11																						
12				SB915-12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Sign	Condition		Custody Seals Intact	
	Date/Time	5/10/12 1635		Date/Time	05-10-12 16.35	Cooler Temp.			
Relinquished by REG/LCH	Company	Sign	Received by	Company		Condition		Custody Seals Intact	
	Date/Time	05-10-12 19.00		Date/Time		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):



From Syr: PCBs, Diox → Knoxville; TKN, LL Hgs → N. Canton; Hex (sep. coc) → Edison; Bal → R. Hill - RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915- 3085
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
LDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

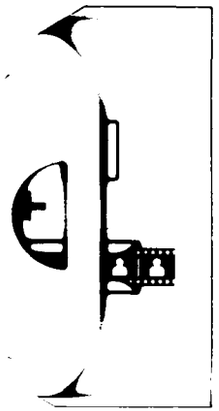
Job No.

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Preservative																									
	Units										G															
1	SB915-MH18	–	–	SB915-3085-01	5/11/12	0815	LCH	Wtr	REG		G		X	X	X	X	X	X	X	X	X		X	X	X	
2	SB915-MH-16	–	–	SB915- -02		0855					G		X	X	X	X	X	X	X	X	X		X	X	X	
3	SB915-MH-07	–	–	SB915- -03		0945					G		X	X	X	X	X	X	X	X	X		X	X	X	
4	SB915-MH-15	–	–	SB915- -04		1035					G		X	X	X	X	X	X	X	X	X		X	X	X	
5	SB915-TB-3085	–	–	SB915- -05	5/11/12	–	QC		TB		–	–	X													
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syn	Condition	Custody Seals Intact
	Date/Time	5/11/12 1315		Date/Time	05-11-12 19:00	Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):



Hex → Edison from Syr. - RE.

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3085A
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Preservative

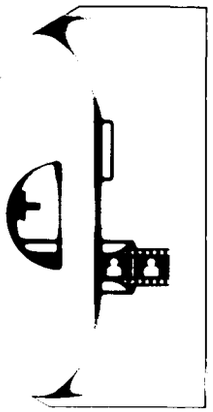
Job No.

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
											Units															
1	SB915-MH-18	—	—	SB915-3085A-01	5/11/12	1140	LCH	Water	REG	1	G											X				
2	SB915-MH-16	—	—	SB915- -02	↓	1130	↓	↓	↓	1	G											X				
3	SB915-MH-07	—	—	SB915- -03	↓	1120	↓	↓	↓	1	G											X				
4	SB915-MH-15	—	—	SB915- -04	↓	1035	↓	↓	↓	1	G											X				
5				SB915- -05																						
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition		Custody Seals Intact	
	Date/Time	5/11/12 1315	RE English	Date/Time	05-11-12 19:00	Cooler Temp.			
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
	Date/Time			Date/Time		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):



3.3 4.1 4.3 3.7 #1 13699

TKN → NC from Syr - RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3090
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
LDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York
Sampler:
PO#
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
1	SB915-MH-01			SB915-3090-01	8-22-12	952	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
2	SB915-MH-02			SB915-3090-02	8-22-12	1023	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
3	SB915-MH-03			SB915-3090-03	8-22-12	1050	LCH	water	REG				X	X	X	X	X	X	X	X	X	
4	SB915-FD-3090			SB915-3090-04	8-22-12	—	~~LCH~~ QC	water	FD				X	X	X	X	X	X	X	X	X	
5	SB915-MH-04			SB915-3090-05	8-22-12	1320	LCH	water	REG				X	X	X	X	X	X	X	X	X	
6	SB915-MH-05			SB915-3090-06	8-22-12	1340	LCH	water	REG				X	X	X	X	X	X	X	X	X	
7	SB915-MH-05			SB915-3090-07	8-22-12	1340	~~LCH~~ QC	water	MS				X	X	X	X	X	X	X	X	X	
8	SB915-MH-05			SB915-3090-08	8-22-12	1340	~~LCH~~ QC	water	MSD				X	X	X	X	X	X	X	X	X	
9	SB915-MH-06			SB915-3090-09	8-22-12	1410	LCH	water	REG				X	X	X	X	X	X	X	X	X	
10	SB915-MH-07			SB915-3090-10	8-22-12	1500	LCH	water	REG				X	X	X	X	X	X	X	X	X	
11	SB915-MH-08			SB915-3090-11	8-22-12	1540	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
12	SB~~915-FB-3090~~			SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Custody Seals Intact
Timothy Peale	O'Brien & Gere	8/22/12 1630	R. English	Syr	08-22-12 11:30		
R English	Syr	08-22-12 19:00		TMH	8/23/12 0920		

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915- 3091
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Preservative

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units															
1	SB915-MH-09			SB915-3091 -01	8-23-12	830	LCH	water	REG	11			X	X	X	X	X	X	X	X	X					
2	SB915-MH-11			SB915-3091 -02	8-23-12	900	LCH	water	REG	11			X	X	X	X	X	X	X	X	X					
3	SB915-MH-0310			SB915-3091 -03	8-23-12	930	LCH	water	REG	11			X	X	X	X	X	X	X	X	X					
4	SB915-MH-12			SB915-3091 -04	8/23/12	1000	LCH	water	REG	11			X	X	X	X	X	X	X	X	X					
5	SB915-MH-13			SB915-3091 -05	8/23/12	1015	LCH	water	REG	11			X	X	X	X	X	X	X	X	X					
6	SB915-MH-14			SB915-3091 -06	8-23-12	1030	LCH	water	REG	11			X	X	X	X	X	X	X	X	X					
7	SB915-MH-15			SB915-3091 -07	8/23/12	1315	LCH	water	REG	11			X	X	X	X	X	X	X	X	X					
8	SB915-MH-16			SB915-3091 -08	8/23/12	1215	LCH	water	REG	11			X	X	X	X	X	X	X	X	X					
9	SB915-MH-18			SB915-3091 -09	8-23-12	1335	LCH	water	REG	11			X	X	X	X	X	X	X	X	X					
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syn	Condition		Custody Seals Intact	
	Date/Time	8/23/12 1456		Date/Time	08-23-12	14:56	Cooler Temp.		
Relinquished by	Company		Received by	Company		Condition		Custody Seals Intact	
	Date/Time			Date/Time		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915- 3102
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
1	SB915-MH-01	—	—	SB915-3102-01	12/11/12	0830	LCH	Water	REG	8	G	—		X	X	X	X	X	X	X	X	X					
2	SB915-MH-02	—	—	SB915- -02		0845	LCH		REG		G	—															
3	SB915-MH-03	—	—	SB915- -03		0905	LCH		REG		G	—															
4	SB915-MH-04	—	—	SB915- -04		0925	LCH		REG		G	—															
5	SB915-FD-3102	—	—	SB915- -05		—	QC		FD		G	—															
6	SB915-MH-05	—	—	SB915- -06		0945	LCH		REG		G	—															
7	SB915-MH-06	—	—	SB915- -07		1005	LCH		REG		G	—															
8	SB915-MH-08	—	—	SB915- -08		1040	LCH		REG		G	—															
9	SB915-MH-09	—	—	SB915- -09		1050	LCH		REG		G	—															
10	SB915-MH-10	—	—	SB915- -10		1230	LCH		REG		G	—															
11	SB915-MH-11	—	—	SB915- -11		1245	LCH		REG		G	—															
12	SB915-MH-12	—	—	SB915- -12		1300	LCH		REG		G	—															

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company		Condition	Custody Seals Intact
	Date/Time	12/11/12 1605		Date/Time		Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915-3103
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

Preservative

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units															
1	SB915-MH-12	—	—	SB915-3103 -01	12/11/12	1300	QC	Wat.	MS	8	G	-	X	X	X	X	X	X	X	X	X					
2	SB915-MH-12	—	—	SB915- -02		1300	QC		MSD	8	G	-														
3	SB915-MH-18	—	—	SB915- -03		1330	LCH		REG		G	-														
4	SB915-MH-07	—	—	SB915- -04		1455	LCH		REG		G	-														
5	SB915-MH-13	—	—	SB915- -05		1520	LCH		REG		G	-														
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company		Condition	Custody Seals Intact
	Date/Time	12/11/12 1605		Date/Time		Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):



Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915- 3104
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																	
1	SB915-MH-17	—	—	SB915- 3104 -01	12/11/12	1400	LCH	Water	REG	25	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	Y		
2	SB915-TB-3104	—	—	SB915- ↓ -02	↓	—	~~LCH~~	Water	TB	3	X	-	X															
3				SB915- -03																								
4				SB915- -04																								
5				SB915- -05																								
6				SB915- -06																								
7				SB915- -07																								
8				SB915- -08																								
9				SB915- -09																								
10				SB915- -10																								
11				SB915- -11																								
12				SB915- -12																								

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company		Condition	Custody Seals Intact
	Date/Time	12/11/12 1605		Date/Time		Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915-3105
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative: Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units											
1	SB915-MH-14	—	—	SB915-3105-01	12/12/12	0845	LCH	Water	REG	8	G	-	X	X	X	X	X	X	X	X	X	
2	SB915-MH-15	—	—	SB915-02	↓	0905	↓	↓	↓	↓	G	-	↓	↓	↓	↓	↓	↓	↓	↓	↓	
3	SB915-MH-16	—	—	SB915-03		0920					G	-										
4	SB915-PCP-01	—	—	SB915-04		1015					G	-										
5				SB915-05																		
6				SB915-06																		
7				SB915-07																		
8				SB915-08																		
9				SB915-09																		
10				SB915-10																		
11				SB915-11																		
12				SB915-12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by: Chuck Sharpe	Company: O'Brien & Gere	Received by: REnglish	Company: Syn	Condition		Custody Seals Intact	
	Date/Time: 12/12/12 1140		Date/Time: 12-12-12	19:40	Cooler Temp.		
Relinquished by: REnglish	Company: Syn	Received by:	Company:	Condition		Custody Seals Intact	
	Date/Time: 12-12-12 19:00		Date/Time:		Cooler Temp.		

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180 19143

PiH
412-963-7058

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3111
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
1	SB915-MH-01			SB915-3111-01	2/26/13	915	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
2	SB915-MH-02			SB915-3111-02	2/26/13	950	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
3	SB915-MH-03			SB915-3111-03	2/26/13	1005	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
4	SB915-MH-04			SB915-3111-04	2/26/13	1025	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
5	SB915-FD-3111			SB915-3111-05	2/26/13	—	QC	water	REG	11			X	X	X	X	X	X	X	X	X	
6	SB915-MH-05			SB915-3111-06	2/26/13	1055	LCH	water	REG	8			X	X	X	X	X	X	X	X	X	
7	SB915-MH-06			SB915-3111-07	2/26/13	1115	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
8	SB915-MH-07			SB915-3111-08	2/26/13	1145	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
9	SB915-MH-08			SB915-3111-09	2/26/13	1250	~~MS~~ LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
10	SB915-MH-08			SB915-3111-10	2/26/13	1250	~~MS~~ LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
11	SB915-MH-08			SB915-3111-11	2/26/13	1250	QC	water	REG	11			X	X	X	X	X	X	X	X	X	
12	SB915-MH-09			SB915-3111-12	2/26/13	1320	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	

Sample Type for
SB915-3111-10 = QC
Sample Purpose for
SB915-3111-10 = MS
Sample Purpose for
SB915-3111-11 = MSD

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	2/26/13 1615	[signature]	Syr	02-26-13 16:15			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
RENGLISH	Syr	02-20-13 19:00	[signature]	TAPGH	2/27/13 930		See TALS Log in for Temp	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

2.7, 2.8 2.2 2.4, 2.1, 3.2

180-19143

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3112
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
1	SB915-MH-10			SB915-3112 -01	2/26/13	1340	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
2	SB915-MH-11			SB915-3112 -02	2/26/13	1410	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
3	SB915-MH-12			SB915-3112 -03	2/26/13	1430	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
4	SB915-MH-13			SB915-3112 -04	2/26/13	1510	LCH	water	REG	11			X	X	X	X	X	X	X	X	X	
5				SB915- -05																		
6				SB915- -06																		
7				SB915- -07																		
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	2/26/13 1615	R. English	Syn	02-26-13 19:00			
R. English	Syn	02-26-13 19:00	[signature]		2/27/13 930			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify);

Sulfate Col.

2.7, 2.8, 2.2, 2.4, 2.1 3.2.

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3113
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler: JWB, JMN, CWS
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units												
1	SB915-MH-14	—	—	SB915-3113-01	2/27/13	0915	LCH	Water	REG	11	G	-	X	X	X	X	X	X	X	X	X	
2	SB915-MH-15	—	—	SB915--02		0940						-										
3	SB915-MH-16	—	—	SB915--03		1000						-										
4	SB915-MH-17	—	—	SB915--04		1015						-										
5	SB915-MH-18	—	—	SB915--05		1030						-										
6	SB915-PCP-01	—	—	SB915--06		1110						-										
7				SB915--07																		
8				SB915--08																		
9				SB915--09																		
10				SB915--10																		
11				SB915--11																		
12				SB915--12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Sya	Condition	Custody Seals Intact
	Date/Time	2-27-13 / 1255		Date/Time 02-27-13	1255	Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915- 3114
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler: JWB, JMN, CWS
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID						Units																
1	SB915-PCP-02	—	—	SB915-3114-01	2/27/13	1135	LCH	Water	RFG		G	-	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-TB-3114	—	—	SB915-3114-02	↓	~~0:0~~	QC	↓	TB	2	-	-	X													
3				SB915- -03																						
4				SB915- -04																						
5				SB915- -05																						
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	S&R	Condition	Custody Seals Intact
	Date/Time	2.27.13 / 1755		Date/Time	02-27-13 / 12:55	Cooler Temp.	
Relinquished by	Company		Received by	Company		Condition	Custody Seals Intact
	Date/Time			Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Appendix G-6

Rounds 1 through 4 Surface Water

FROM Syr: LLHg, TKN ⇒ NC; HEX ⇒ EDISON; Diox, Congeners ⇒ Kxville; Bnl → Pitts. - RE,

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915- 3086
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Tom Conklin
Invoice To: John McAuliffe

Job No.

Preservative

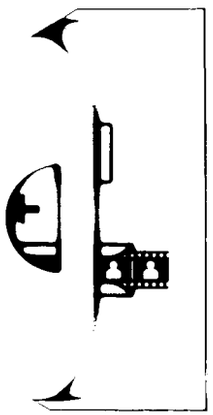
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
1	WB915-Gravel Pit	—	—	SB915- 3086 -01	7/18/12	1125	W-SW	Water	REG				X	X	X	X	X	X	X	X	X	X	X	X	X	
2	WB915-Iron Brook	—	—	SB915- -02		1150																				
3	WB915-RetPond1	—	—	SB915- -03		1230																				
4	WB915-RetPond2-1	—	—	SB915- -04		1300																				
5	WB915-RetPond2-2	—	—	SB915- -05		1330																				
6	WB915-FD-3086	—	—	SB915- -06		—	QC		FD																	
7	WB915-PondAreaN	—	—	SB915- -07		1555	W-SW		REG																	
8	WB915-Interbed1	—	—	SB915- -08		1500																				
9	WB915-Interbed2	—	—	SB915- -09		1435																				
10	WB915-Interbed3	—	—	SB915- -10		1420																				
11	WB915-Interbed1	—	—	SB915- -11		1500	QC		MS																	
12	WB915-Interbed1	—	—	SB915- -12		1500	QC		MSD																	

Units

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	7/18/12 1700	R English	Syr	07-18-12 17:00			
R English	Syr	07-18-12 19:00						

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):



Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3087
Lab Use Only

Privileged & Confidential

EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Lab Proj #
Lab ID

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Tom Conklin
Invoice To: John McAuliffe

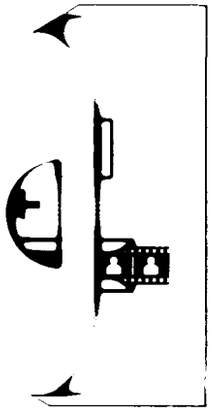
Job No.

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analytes	Lab Sample Numbers
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
1 SW915-TB-3087	—	—	SB915-3087 -01	7/18/12	—	QC	Water	TB	1				X													
2			SB915- -02																							
3			SB915- -03																							
4			SB915- -04																							
5			SB915- -05																							
6			SB915- -06																							
7			SB915- -07																							
8			SB915- -08																							
9			SB915- -09																							
10			SB915- -10																							
11			SB915- -11																							
12			SB915- -12																							

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	SyR	Condition	Custody Seals Intact
	Date/Time	7/18/12 1700		Date/Time	07-18-12 17.00	Cooler Temp.	
Relinquished by	Company	SyR	Received by	Company		Condition	Custody Seals Intact
	Date/Time	07-18-12 19.00		Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):



3.2 0.8 2.1 1.8 2.4 #3

280-12658

From Syr: Hex → Edison; TKN, LLHg → NC, PCBs, Diox → Kxvl; Bal → Pitts. - RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3088
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Tom Conklin
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
1	WB915-Ref Reach			SB915-3088-01	7/20/12	1605	W-SW	Water	REG				X	X	X	X	X	X	X	X	X	X	X	X	X	
2	WB915-Reach A			SB915- -02		1505																				
3	WB915-Reach B			SB915- -03		1728																				
4	WB915-Reach C			SB915- -04		1425																				
5	WB915-Reach D			SB915- -05		1235																				
6	WB915-Reach E			SB915- -06		1215																				
7	WB915-Reach F			SB915- -07		1105																				
8	WB915-TB-3087			SB915- -08			QC		TB																	
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Units

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	7/20/12 1800	[signature]	Syr	07-20-12 1800			
[signature]	Syr	07-20-12 1800	[signature]	TA Pitt	7-21-12 900			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3092
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler: CWS, TSP
PO #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: ~~Robert Trent~~ Chuck Sharpe (CWS 9/24/12)
Invoice To: John McAuliffe

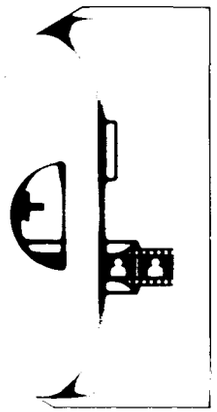
Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)					Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
1	Iron Brook	—	—	SB915-3092 -01	9/24/12	1055	W-SW	Water	REG	8				X	X	X	X	X	X	X	X	X					
2	NMC Ref. Reach	—	—	SB915- -02		1200								X	X	X	X	X	X	X	X	X					
3	NMC Reach A	—	—	SB915- -03		1220								X	X	X	X	X	X	X	X	X					
4	NMC Reach B	—	—	SB915- -04		1245								X	X	X	X	X	X	X	X	X					
5	NMC Reach F	—	—	SB915- -05		1350								X	X	X	X	X	X	X	X	X					
6	NMC Reach E	—	—	SB915- -06		1405								X	X	X	X	X	X	X	X	X					
7	NMC Reach D	—	—	SB915- -07		1425								X	X	X	X	X	X	X	X	X					
8	NMC Reach C	—	—	SB915- -08		1510								X	X	X	X	X	X	X	X	X					
9	Gravel Pit	—	—	SB915- -09		1555								X	X	X	X	X	X	X	X	X					
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Sya	Condition		Custody Seals Intact	
	Date/Time	9/24/12 1645		Date/Time	9-24-12	16:45	Cooler Temp.		
Relinquished by	Company		Received by	Company			Condition		Custody Seals Intact	
	Date/Time			Date/Time			Cooler Temp.		

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):



3.0 2.8 2.0 #1

14787

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3093
Lab Use Only
Lab Proj #
Lab ID
Job No.

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative: Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units										
1	Retention Pond 1			SB915-3093-01	9/25/12	1142	W-SW	Water	REG	8			X	X	X	X	X	X	X	X	X
2	Retention Pond 2-1			SB915-02		1220															
3	Retention Pond 2-2			SB915-03		1215															
4	Ponded Area N of WB11			SB915-04		1035															
5	Interbed 1			SB915-05		1045															
6	Interbed 1			SB915-06		1045	QC		MS												
7	Interbed 1			SB915-07		1045	QC		MSD												
8	Interbed 2			SB915-08		1100	W-SW		REG												
9	Interbed 3			SB915-09		1110	W-SW		REG												
10	SB915-FD-3093			SB915-10		—	QC		FD												
11				SB915-11																	
12				SB915-12																	

From TA Syracuse:
TKN to N. Canton,
Hex, if any, to Edison,
Dioxin, if any, to Knoxville,
Balance to Pittsburgh.

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company: O'Brien & Gere	Received by	Company: Syn	Condition		Custody Seals Intact	
	Date/Time: 9/25/12 1307		Date/Time: 9-25-12, 13:07	Cooler Temp.			
Relinquished by: English	Company: Syn	Received by	Company: TRATT	Condition		Custody Seals Intact	
	Date/Time: 9-25-12 15:00		Date/Time: 9/26/12	0945	Cooler Temp.		

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

TKN → N. CARTON from Syr. - RE

1.9 2.6 2.5 #1

16736

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3097
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
1	SWB915 - Ret Pond 1			SB915-3097 -01	11/27/12	0945	W-SW	Water	REG	8	G		X	X	X	X	X	X	X	X	X	
2	WB915 - Ret Pond 2-1			SB915- -02		1020																
3	WB915-Ret Pond 2-2			SB915- -03		1015																
4	WB915 - NMC Reach F			SB915- -04		1120																
5	WB915 - NMC Reach E			SB915- -05		1140																
6	WB915-NMC Reach D			SB915- -06		1155																
7	WB915-NMC Reach D			SB915- -07		1155	QC		MS													
8	WB915-NMC Reach D			SB915- -08		1155	QC		MSD													
9	WB915 - NMC Reach C			SB915- -09		1230	W-SW		REG													
10	WB915 - NMC Ref Reach			SB915- -10		1330																
11	WB915 - NMC Reach A			SB915- -11		1350																
12	WB915 - NMC Reach B			SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	11/27/12 1605	[signature]	Syr	11-27-12 16:05			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	Syr	11-27-12 19:00	[signature]	TARK	0915 11/28/12			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

TKN 1631 to NCanto from Syr. -RE

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AES Ref: 38609.59845
COC #: SB915-3098
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
PO #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
1 WS915-OUT-017			SB915-3098-01	11/27/12	1535	~~GW~~ SW	Water	FEG	25	G		X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2 WR915-TB-3098			SB915-3098-02	↓	—	QC	↓	TB				X														
3			SB915- -03																							
4			SB915- -04																							
5			SB915- -05																							
6			SB915- -06																							
7			SB915- -07																							
8			SB915- -08																							
9			SB915- -09																							
10			SB915- -10																							
11			SB915- -11																							
12			SB915- -12																							

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syr	Condition		Custody Seals Intact	
	Date/Time	11/27/12 1605		Date/Time	11-27-12	1610	Cooler Temp.		
Relinquished by RE 11/29/12	Company	Syr	Received by	TARH Company	0915	Condition		Custody Seals Intact	
	Date/Time	11-27-12 1900		Date/Time	11/28/12		Cooler Temp.		

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915- 3099
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler: CWS, MJW
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative: Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units											
1	WB915-Iron Bridge			SB915-3099 -01	11/28/12	0915	W-SW	Water	REG	8	G		X	X	X	X	X	X	X	X	X	
2	WB915-Gravel Pit			SB915- -02		0940																
3	WB915-Interbed #1			SB915- -03		1045																
4	WB915-FD-3099			SB915- -04		—	QC		FD													
5	WB915-Interbed #2			SB915- -05		1100			REG													
6	WB915-Interbed #3			SB915- -06		1115																
7	WB915-Baled Area, NW81			SB915- -07		1025																
8				SB915- -08																		
9				SB915- -09																		
10				SB915- -10																		
11				SB915- -11																		
12				SB915- -12																		

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company: O'Brien & Gere	Received by	Company: Syn	Condition		Custody Seals Intact	
	Date/Time: 11/28/12 1245		Date/Time: 11-28-12 12:45	Cooler Temp.			
Relinquished by	Company: Syn	Received by	Company:	Condition		Custody Seals Intact	
	Date/Time: 11-28-12 19:00		Date/Time:	Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915- 3100
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler: CWS, MJW
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Preservative	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																	
1	WB915-GWT-011			SB915-3100-01	11/28/12	1150	W-SW	Water	REG.	25	G			X	X	X	X	X	X	X	X	X	X	X	X	X		
2	WB915-TB-3100			SB915- " -02	"	—	QC	"	TB	3	-			X														
3				SB915- -03																								
4				SB915- -04																								
5				SB915- -05																								
6				SB915- -06																								
7				SB915- -07																								
8				SB915- -08																								
9				SB915- -09																								
10				SB915- -10																								
11				SB915- -11																								
12				SB915- -12																								

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Sy2	Condition		Custody Seals Intact	
	Date/Time	11/28/12 1245		Date/Time	11-28-12 12:45	Cooler Temp.			
Relinquished by REinglish	Company	Sy2	Received by	Company		Condition		Custody Seals Intact	
	Date/Time	11-28-12 19:00		Date/Time		Cooler Temp.			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915- 3106
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Preservative															
											Units															
1	SB915-OUT-019	—	—	SB915- 3106 -01	12/12/12	1105	W-SW	Water	REG	25	G	-	X	X	X	X	X	X	X	X	X	X	X	X	Y	
2	SB915-TB-3106	—	—	SB915- ↓ -02	↓	—	QC	Water	TB	1	G	-	X													
3				SB915- -03																						
4				SB915- -04																						
5				SB915- -05																						
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syn	Condition	Custody Seals Intact
	Date/Time	12/12/12 1140	RENGLISH	Date/Time 12-12-12	11:40	Cooler Temp.	
Relinquished by RENGLISH	Company	Syn	Received by	Company		Condition	Custody Seals Intact
	Date/Time 12-12-12	19:00		Date/Time		Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC # : SB915- 3107
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample ?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	PCB (1668)				Lab Sample Numbers
1	WB915 - Reach F			SB915- 3107 -01	2/6/13	0950	W-SW	Water	RGG	G																
2	WB915 - Reach E			SB915- -02		1020																				
3	WB915 - Reach D			SB915- -03		1050																				
4	WB915 - Reach C			SB915- -04		1135																				
5	WB915 - Reach B			SB915- -05		1215																				
6	WB915 - Reach A			SB915- -06		1400																				
7	WB915 - Ref Reach			SB915- -07		1420																				
8	WB915 - Iron Brook			SB915- -08		1505																				
9	WB915-OUT-019			SB915- -09		1515																				
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

All of these samples are to analyzed for the parameters/ methods listed above.
C. Sharpe
02/06/2013

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	2/6/13 1605	R English	Syn	02-06-13 1605			
R English	Syn	02-06-13 19:00						

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180 - 18664

4.4, 5.2 , 4.9, 4.7, 3.8, 3.4 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3109
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

EDD To: Chuck Sharpe

Site Name: Settling Basins 9-15

Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:

PO#

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent

Invoice To: John McAuliffe

Job No.

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	1668 PCBs			Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units																
1	WB915 - Ponded Area N			SB915-3109-01	2/7/13	0905	W-SW	Water	REG	10	G		X	X	X	X	X	X	X	X	X	X				
2	WB915 - Interbed 1			SB915-02		0930			REG	10																	
3	WB915-Interbed 1			SB915-03		0930	QC		MS	10																	
4	WB915-Interbed 1			SB915-04		0930	QC		MSD	10																	
5	WB915 Interbed 2			SB915-05		1010	~~W-SW~~ QC		REG	9																	
6	WB915-Interbed 3			SB915-06		1025	W-SW			10																	
7	WB915-OUT-011			SB915-07		1040				10																	
8	WB915-OUT-017			SB915-08		1130				10																	
9	WB915-FD-3109			SB915-09		—	QC		FD	10																	
10	WB915-Gravel Pit			SB915-10		1150	W-SW		REG	10																	
11	WB915-Rat Pond 1			SB915-11		1340				9																	
12	WB915-Rat Pond 2-1			SB915-12		1355				10																	

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Sya	Condition	Custody Seals Intact
	Date/Time	2/7/13 1550		Date/Time 02-07-13	1550	Cooler Temp.	
Relinquished by	Company	Sya	Received by	Company	TAL-IT	Condition	Custody Seals Intact
	Date/Time 02-07-13	19:00		Date/Time 2-8-13	915	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3110
Lab Use Only
Lab Proj #:
Lab ID:
Job No.:

Privileged & Confidential
EDD To: Chuck Sharpe
Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Preservative

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Total Phenols (420.4)	Metals (6010C) See Special Instructions	Ammonia (SM20 4500 NH3-G/ 350.1)	TKN and TOC (351.2/Lloyd Kahn)	COD and BOD (410.4 and SM20 5210B)	Alkalinity (SM20 2320B) See Special Instructions	TDS (SM20 2540C)	Total Hardness as CaCO3(SM2340C)	Sulfate/Chloride/Bromide/Nitrate (300.0)	1668 PCBs				Lab Sample Numbers
1	WB915-Rot Pond 2-2			SB915-3110 -01	2/7/13	1420	W-SW	Water	REG	9			X	X	X	X	X	X	X	X	X	X				
2	WB915-PISCES Blade			SB915-3110 -02	↓	1530	QC	↓	EB	1			X	X	X	X	X	X	X	X	X	X				
3				SB915- -03																						
4				SB915- -04																						
5				SB915- -05																						
6				SB915- -06																						
7				SB915- -07																						
8				SB915- -08																						
9				SB915- -09																						
10				SB915- -10																						
11				SB915- -11																						
12				SB915- -12																						

CWS 2/7/13
1668 PCBs only

Special Instructions: Method 6010C Metals are Cadmium, Calcium, Iron, Lead, Magnesium, Manganese, Potassium, and Sodium. Method SM20 2320B present Total Alkalinity, Carbonate Alkalinity, and Bicarbonate Alkalinity.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time	Condition	Cooler Temp.	Custody Seals Intact
[signature]	O'Brien & Gere	2/7/13 1550	R. English	Syr	02-07-13 1550			
R. English	Syr	02-07-13 1900	[signature]	TAB.TT	2-8-13 915			

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Appendix G-7

Rounds 1 and 4 Sediment

12060

2.1 #3

Chain Of Custody / Analysis Request

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

AESI Ref: 38609.59845
COC #: SB915-3089
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

EDD To: Chuck Sharpe
Sampler:
P O #:

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Tom Conklin
Invoice To: John McAuliffe

Job No.

Sample Identification

	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID	Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.
1	~~WB915-Ref Reach~~	~~0~~	~~1~~	SB915-3089 -01	7/20/12		~~SED~~	~~SOIL~~	~~REG~~	
2	WB915-Reach C	0	1	SB915-3089 -02		1145				
3	WB915-Reach D	0	1	SB915- -03		1245				
4	WB915-Reach F	0	1	SB915- -04		1120				
5	WB915-FD-3089	—	—	SB915- -05		—	QC	QC	FD	
6	WB915-TB-3089	—	—	SB915- -06		—		Water	TB	
7	WB915-Reach F	0	1	SB915- -07		1120		~~SOIL~~ LSOIL	MS/MSD	
8				SB915- -08						
9				SB915- -09						
10				SB915- -10						
11				SB915- -11						
12				SB915- -12						

Grab/Composite | Field Filtered Sample? | Preservative | Units

VOCs (8260B)	SVOCs ((8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
X	X	X	X	X	X	X	X	X	X	X	X	X	

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company	Syra	Condition	Custody Seals Intact
	Date/Time	7/20/12 1800		Date/Time	07-20-12 18:00	Cooler Temp.	
Relinquished by	Company	Syra	Received by	Company	TAATI	Condition	Custody Seals Intact
	Date/Time	07-20-12 18:00		Date/Time	7-21-12 0900	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn..Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

180-18631

3.7 #2

Test America Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.59845
COC #: SB915-3108
Lab Use Only
Lab Proj #
Lab ID

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

Job No.

| Sample Identification | | | | | | | | | | Preservative | | | | | | | | | |

Appendix G-8

Round 4 Surface Leachate

180-19679

3-5, 3.7 #2

Test America Pittsburgh

301 Alpha Drive
Pittsburgh, PA 15238
(p) 412-963-7058

Chain Of Custody / Analysis Request

AESI Ref: 38609.S9845
COC #: SB915-3115
Lab Use Only
Lab Proj #
Lab ID
Job No

Privileged & Confidential
EDD To: Chuck Sharpe
Sampler:
P O #
Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

Site Name: Settling Basins 9-15 Closure Investigation
Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
John.McAuliffe@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Robert Trent
Invoice To: John McAuliffe

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Grab/Composite	Field Filtered Sample?	Preservative	VOCs (8260B)	SVOCs (8270C)	Pesticides (8081)	PCBs (1668)	TAL Metals (6010C)	Mercury (1631)	Dioxin (8290)	Total Phenols (420.4)	2,4,5-T, 2,4-D, Dinoseb and Silvex (8151)	Hexavalent Chromium (3060A/7199)	Isobutyl Alcohol, Propionitrile (8015)	Sulfate/Chloride/Bromide (300.0)	See Special Instructions for additional analyses	Lab Sample Numbers
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID									Units														
1	SB915-024-SP-33	–	–	SB915-3115 -01	3/18/13	1300	SP	water	REG	23				X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB915-FD-3115	–	–	SB915-3115 -02	3/18/13	–	QC	water	FD	23				X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB915-TB-3115			SB915-3115 -03	3/18/13	–	QC	water	TB	1				X													
4				SB915- -04																							
5				SB915- -05																							
6				SB915- -06																							
7				SB915- -07																							
8				SB915- -08																							
9				SB915- -09																							
10				SB915- -10																							
11				SB915- -11																							
12				SB915- -12																							

TestAmerica Laboratories Inc. (315) 431-0171

OBG BASINS 9-15 SPLITS:
HEX – EDISON
PCB, DIOXINS – KNOXVILLE
TKN, LLHG – N.CANTON,
BALANCE - PITTSBURGH

Special Instructions: Nitrate, Nitrite, Cyanide, TKN, COD, BOD, TDS, Alkalinity, Hardness, Ammonia, TOC by methods 300.0/9056, 9010C, 351.2, 410.4, SM20 5210B, SM20 2540C, SM20 2340C, SM20 4500 NH3-G/ 350.1, Lloyd Kahn respectively. Dimethoate, Disulfoton, Famphur, Methyl Parathion, Parathion, Phorate by method 8141. 6010C to include Boron and Tin.

Relinquished by	Company	O'Brien & Gere	Received by	Company		Condition	Custody Seals Intact
	Date/Time	3/18/13 1450		Date/Time	3-18-13	Cooler Temp.	
Relinquished by	Company		Received by	Company	FAST	Condition	Custody Seals Intact
	Date/Time	03-18-13 1900		Date/Time	3-19-13 900	Cooler Temp.	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Appendix H

Part 360 Analytical Parameter Lists

Appendix H-1

Expanded Parameters List

Appendix H-1
Honeywell
Wastebeds 9-15 Closure Investigation Report
6 NYCRR Part 360 Solid Waste Management Facilities
Section 2.11 Expanded Parameters List[1]

Common Name[2]	CAS RN[3]	Suggested Methods[4]	Target QL[5] (µg/l)
Field Parameters:			
Static water level (in wells and sumps)			
Specific Conductance			
Temperature			
Floaters or Sinkers[6]			
pH		9045C/SM4500H&B	0.01 Std units
Eh			
Dissolved Oxygen[7]			
Field Observations[8]			
Turbidity			
Leachate Indicators:			
Total Kjeldahl Nitrogen		351.2	200
Ammonia	7664-41-7	SM20 4500 NH3-G/ 350.1	20
Nitrate		300.0/9056	20
Chemical Oxygen Demand		410.4	10000
Biochemical Oxygen Demand (BOD5)		SM5210B	2000
Total Organic Carbon		SM20 5310B, 9060 M, Lloyd Kahn 1988	1000
Total Dissolved Solids		SM2540C	
Sulfate		300.0	2000
Alkalinity		SM20 2320B	5000
Phenols		420.4	10
Chloride	16887-00-6	300.0	500
Bromide	24959-67-9	300.0	200
Total hardness as CaCO3	35-50-0	SM20 2340C	2000
Color		SM20 2120B	0CU
Boron	7440-42-8	6010C	20
Inorganic Parameters:			
Aluminum	(Total)	6010C	200
Antimony	(Total)	6010C	20
Arsenic	(Total)	6010C	10
Barium	(Total)	6010C	2
Beryllium	(Total)	6010C	2
Cadmium	(Total)	6010C	1
Calcium	(Total)	6010C	500
Chromium	(Total)	6010C	4
Chromium(Hexavalent)*	15723-28-1	3060A/7199	10
Cobalt	(Total)	6010C	4
Copper	(Total)	6010C	10
Cyanide	(Total)	9012A/9012B/9014	10
Iron	(Total)	6010C	50
Lead	(Total)	6010C	5
Magnesium	(Total)	6010C	200
Manganese	(Total)	6010C	3
Mercury	7439-97-6	1631[16]	0.0005
Nickel	(Total)	6010C	10
Potassium	(Total)	6010C	500
Selenium	(Total)	6010C	15
Silver	(Total)	6010C	3
Sodium	(Total)	6010C	1000
Thallium	(Total)	6010C	20
Tin	(Total)	6010C	10

Appendix H-1
Honeywell
Wastebeds 9-15 Closure Investigation Report
6 NYCRR Part 360 Solid Waste Management Facilities
Section 2.11 Expanded Parameters List[1]

Common Name[2]	CAS RN[3]	Suggested Methods[4]	Target QL[5] (µg/l)
Vanadium	(Total)	6010C	5
Zinc	(Total)	6010C	10
Organic Parameters:			
Acenaphthene	83-32-9	8270	5
Acemaphthylene	208-96-8	8270	5
Acetone	67-64-1	8260	10
Acetonitrile; Methyl cyanide	75-05-8	8260	40
Acetophenone	98-86-2	8270	10
2-Acetylaminofluorene; 2-AAF	53-96-3	8270	10
Acrolein	107-02-8	8260	20
Acrylonitrile	107-13-1	8260	5
Aldrin	309-00-2	8081	0.05
Ally chloride	107-05-1	8260	1
4- aminobiphenyl	92-67-1	8270	10
Anthracene	120-12-7	8270	5
Benzene	71-43-2	8260	1
Benzo[a]anthracene; Benzanthracene	56-55-3	8270	5
Benzo[b]fluoranthene	205-99-2	8270	5
Benzo[k]fluoranthene	207-08-9	8270	5
Benzo[ghi]perylene	191-24-2	8270	5
Benzo[a]pyrene	50-32-8	8270	5
Benzyl alcohol	100-51-6	8270	5
alpha-BHC	319-84-6	8081	0.05
beta-BHC	319-85-7	8081	0.05
delta-BHC	319--86-8	8081	0.05
gamma-BHC; Lindane	58-89-9	8081	0.05
Bis(2-chloroethoxy)methane	111-91-1	8270	5
Bis(2-chloroethyl) ether; Dichloroethyl ether	111-44-4	8270	5
Bis-(2-chloro-1-methyl-ethyl)ether; 2,21-Di-chlorodiisopropyl ether; DCIP, See note 9	108-60-1	8270	5
Bis(2-ethylhexyl)phthalate	117-81-7	8270	5
Bromochloromethane; Chlorobromomethane	74-97-5	8260	1
Bromodichloromethane; Dibromochloromethane	75-27-4	8260	1
Bromoform; Tribromomethane	75-25-2	8260	1
4-Bromophenyl phenyl ether	101-55-3	8270	5
Butyl benzyl phthalate; Benzyl butyl phthalate	85-68-7	8270	5
Carbon disulfide	75-15-0	8260	1
Carbon tetrachloride	56-23-5	8260	1
Chlordane	See Note 10	8081	0.05
p-Chloroaniline	106-47-8	8270	5
Chlorobenzene	108-90-7	8260	1
Chlorobenzilate	510-15-6	8270	10
p-Chloro-m-cresol; 4-Chloro-3-methylphenol	59-50-7	8270	5
Chloroethane; Ethyl chloride	75-00-3	8260	1
Chloroform; Trichloromethane	67-66-3	8260	1
2-Chloronaphthalene	91-58-7	8270	5
2-Chlorophenol	95-57-8	8270	5
4-Chlorophenyl phenyl ether	7005-72-3	8270	5
Chloroprene	126-99-8	8260	1
Chrysene	218-01-9	8270	5
m-Cresol; 3-methylphenol	108-39-4	8270	10
o-Cresol; 2-methylphenol	95-48-7	8270	10
p-Cresol; 4-methylphenol	106-44-5	8270	10

Appendix H-1
Honeywell
Wastebeds 9-15 Closure Investigation Report
6 NYCRR Part 360 Solid Waste Management Facilities
Section 2.11 Expanded Parameters List[1]

Common Name[2]	CAS RN[3]	Suggested Methods[4]	Target QL[5] (µg/l)
2,4-D; 2,4-Dichlorophen- oxyacetic acid	94-75-7	8151	0.5
4,41-DDD	72-54-8	8081	0.05
4,41-DDE	72-55-9	8081	0.05
4,41-DDT	50-29-3	8081	0.05
Diallate	2303-16-4	8270	10
Dibenz[a,h]anthracene	53-70-3	8270	5
Dibenzofuran	132-64-9	8270	10
Dibromochloromethane; Chlorodibromomethane	124-48-1	8270	1
1,2-Dibromo-3-chloro- propane; DBCP	96-12-8	8260	1
1,2-Dibromoethane; Ethylene dibromide; EDB	106-93-4	8260	1
Di-n-butyl phthalate	84-74-2	8270	5
o-Dichlorobenzene; 1,2-Dichlorobenzene	95-50-1	8260	1
m-Dichlorobenzene; 1,3-Dichlorobenzene	541-73-1	8260	1
p-Dichlorobenzene; 1,4-dichlorobenzene	106-46-7	8260	1
3,31-Dichlorobenzidine	91-94-1	8270	5
trans-1,4-Dichloro- 2-butene	110-57-6	8260	5
Dichlorodifluoromethane; CFC 12	75-71-8	8260	1
1,1-Dichloroethane; Ethyldidene chloride	75-34-3	8260	1
1,2-Dichloroethane; Ethylene dichloride	107-06-2	8260	1
1,1-Dichloroethene; Vinylidene chloride	75-35-4	8260	1
cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene	156-59-2	8260	1
trans-1,2-Dichloroethylene	156-60-5	8260	1
trans-1,2-Dichloroethene	156-60-5	8260	5
2,4-Dichlorophenol	120-83-2	8270	5
2,6-Dichlorophenol	87-65-0	8270	10
1,2-Dichloropropane; Propylene dichloride	78-87-5	8260	1
1,3-Dichloropropane; Trimethylene dichloride	142-28-9	8260	1
2,2-Dichloropropane; Isopropylidene chloride	594-20-7	8260	1
1,1-Dichloropropene	563-58-6	8260	1
cis-1,3-Dichloropropene	10061-01-5	8260	1
trans-1,3-Dichloropropene	10061-02-6	8260	1
Dieldrin	60-57-1	8081	0.05
Diethyl phthalate	84-66-2	8270	5
0,0-Diethyl 0-2-pyrazinyl phosphorothioate	297-97-2	8270	10
Dimethoate	60-51-5	8141	1
p-(Dimethylamino)azo- benzene	60-11-7	8270	10
7,12-Dimethylbenz[a]- anthracene	57-97-6	8270	10
3,31-Dimethylbenzidine	199-93-7	8270	40
2,4-Dimethylphenol; m-Xylenol	105-67-9	8270	5
Dimethyl phthalate	131-11-3	8270	5
m-Dinitrobenzene	99-65-0	8270	5
4,6-Dinitro-o-cresol 4,6- Dinitro-2-methylphenol	534-52-1	8270	10
2,4-Dinitrophenol	51-28-5	8270	10
2,4-Dinitrotoluene	121-14-2	8270	5
2,6-Dinitrotoluene	606-20-2	8270	5
Dinoseb; DNBP; 2-sec- Butyl-4,6-dinitrophenol	88-85-7	8151	0.5
Di-n-octyl phthalate	117-84-0	8270	5
11 Diphenylamine	122-39-4	8270	10
Disulfoton	298-04-4	8141	1
Endosulfan I	959-98-8	8081	0.05
Endosulfan II	33213-65-9	8081	0.05
Endosulfan sulfate	1031-07-8	8081	0.05
Endrin	72-20-8	8081	0.05
Endrin aldehyde	7421-93-4	8081	0.05

Appendix H-1
Honeywell
Wastebeds 9-15 Closure Investigation Report
6 NYCRR Part 360 Solid Waste Management Facilities
Section 2.11 Expanded Parameters List[1]

Common Name[2]	CAS RN[3]	Suggested Methods[4]	Target QL[5] (µg/l)
Ethylbenzene	100-41-4	8260	1
Ethyl methacrylate	97-63-2	8260	1
Ethyl methanesulfonate	62-50-0	8270	10
Famphur	52-85-7	8141	1
Fluoranthene	206-44-0	8270	5
Fluorene	86-73-7	8270	5
Heptachlor	76-44-8	8081	0.05
Heptachlor epoxide	1024-57-3	8081	0.05
Hexachlorobenzene	118-74-1	8081	0.05
Hexachlorobutadiene	87-68-3	8270	5
Hexachlorocyclopentadiene	77-47-7	8270	5
Hexachloroethane	67-72-1	8270	5
Hexachloropropene	1888-71-7	8270	10
2-Hexanone; Methyl butyl ketone	591-78-6	8260	10
Indeno(1,2,3-cd)pyrene	193-39-5	8270	5
Isobutyl alcohol	78-83-1	8015	TBD
Isodrin	465-73-6	8270	10
Isophorone	78-59-1	8270	5
Isosafrole	120-58-1	8270	10
Kepone	143-50-0	8270	50
Methacrylonitrile	126-98-7	8260	5
Methapyrilene	91-80-5	8270	50
Methoxychlor	72-43-5	8081	0.05
Methyl bromide; Bromomethane	74-83-9	8260	1
Methyl chloride; Chloromethane	74-87-3	8260	1
3-Methylcholanthrene	56-49-5	8270	10
Methyl ethyl ketone; MEK; 2-Butanone	78-93-3	8260	10
Methyl iodide;Iodomethane	74-88-4	8260	1
Methyl methacrylate	80-62-6	8260	1
Methyl methanesulfonate	66-27-3	8270	10
2-Methylnaphthalene	91-57-6	8270	10
Methyl parathion; Parathion methyl	298-00-0	8141	1
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1	8260	10
Methylene bromide; Dibromomethane	74-95-3	8260	1
Methylene chloride; Dichloromethane	75-09-2	8260	1
Naphthalene	91-20-3	8270	5
1,4-Naphthoquinone	130-15-4	8270	10
1-Naphthylamine	134-32-7	8270	10
2-Naphthylamine	91-59-8	8270	10
o-Nitroaniline; 2-Nitroaniline	88-74-4	8270	10
m-Nitroaniline; 3-Nitroaniline	99-09-2	8270	10
p-Nitroaniline; 4-Nitroaniline	100-01-6	8270	10
Nitrobenzene	98-95-3	8270	5
o-Nitrophenol; 2-Nitrophenol	88-75-5	8270	5
p-Nitrophenol; 4-Nitrophenol	100-02-7	8270	10
N-Nitrosodi-n-butylamine	924-16-3	8270	10
N-Nitrosodiethylamine	55-18-5	8270	10
N-Nitrosodimethylamine	62-75-9	8270	10
N-Nitrosodiphenylamine	86-30-6	8270	5
N-Nitrosodipropylamine; N-Nitroso-N-dipropyl- amine; Di-n-propylni- trosamine	621-24-7	8270	5
N-Nitrosomethylethalamine	10595-95-6	8270	10
N-Nitrosopiperidine	100-75-4	8270	10
N-Nitrosopyrrolidine	930-55-2	8270	10

Appendix H-1
Honeywell
Wastebeds 9-15 Closure Investigation Report
6 NYCRR Part 360 Solid Waste Management Facilities
Section 2.11 Expanded Parameters List[1]

Common Name[2]	CAS RN[3]	Suggested Methods[4]	Target QL[5] (µg/l)
5-Nitro-o-toluidine	99-55-8	8270	10
Parathion	56-38-2	8141	1
Pentachlorobenzene	608-93-5	8270	10
Pentachloronitrobenzene	82-68-8	8270	10
Pentachlorophenol	87-86-5	8270	10
Phenacetin	62-44-2	8270	10
Phenanthrene	85-01-8	8270	5
Phenol	108-95-2	8270	5
p-Phenylenediamine	106-50-3	8270	800
Phorate	298-02-2	8141	1
Polychlorinated biphenyls; PCB's; Aroclors	See Note 11	1668A[16] or Modified Green Bay Method	TBD
Polychlorinated dibenzo-p-dioxins; PCDD's	See Note 12	8290	50
Polychlorinated dibenzo-furans; PCDF's	See Note 13	8290	50
Pronamide	23950-58-8	8270	10
Propionitrile; Ethyl cyanide	107-12-0	8015	60
Pyrene	129-00-0	8270	5
Safrole	94-59-7	8270	10
Silvex; 2,4,5-TP	93-72-1	8151	0.5
Styrene	100-42-5	8260	1
2,4,5-T; 2,4,5-trichloro- phenoxyacetic acid	93-76-5	8150	2
1,2,4,5-Tetrachlorobenzene 2,3,7,8-Tetrachlorodi-	95-94-3	8270	5
benzo-p-dioxin; 2,3,7,8-TCDD	1746-01-6	8290	10
1,1,1,2-Tetrachloroethane	630-20-6	8260	1
1,1,2,2-Tetrachloroethane	79-34-5	8260	1
Tetrachloroethylene; Tetrachloroethene;	127-18-4	8260	1
2,3,4,6-Tetrachlorophenol	58-90-2	8270	5
Toluene	108-88-3	8260	1
o-Toluidine	95-53-4	8270	10
Toxaphene	See Note 14	8081	0.05
1,2,4-Trichlorobenzene	120-82-1	8260	1
1,1,1-Trichloroethane; Methylchloroform	71-55-6	8260	1
1,1,2-Trichloroethane	79-00-5	8260	1
Trichloroethylene; Trichloroethene	79-01-6	8260	1
Trichlorofluoroethane	27154-33-2	8260	1
1,2,3-Trichloropropane	96-18-4	8260	1
Trichlorofluoromethane; CFC-11	75-69-4	8260	1
2,4,5-Trichlorophenol	95-95-4	8270	5
2,4,6-Trichlorophenol	88-06-2	8270	5
Trimethylbenzene	526-73-8	8260	1
0,0,0-Triethyl phosphoro-thioate	126-68-1	8270	10
sym-Trinitrobenzene	99-35-4	8270	10
Vinyl acetate	108-05-4	8260	5
Vinyl chloride; Chloroethene	75-01-4	8260	1
Xylene (total)	See Note 15	8260	2
Additional Parameters Required by Consent Order			
Nitrite	14797-65-0	300.0/9056	0.02

Notes:

[1]The regulatory requirements pertain only to the list of substances; the right hand columns (Methods and PQL) are given for informational purposes only. See also footnotes 4 and 5.

[2]Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

[3]Chemical Abstracts Service registry number. Where "Total" is entered, all species in the groundwater that contain this element are included.

Appendix H-1
Honeywell
Wastebeds 9-15 Closure Investigation Report
6 NYCRR Part 360 Solid Waste Management Facilities
Section 2.11 Expanded Parameters List[1]

Common Name[2]	CAS RN[3]	Suggested Methods[4]	Target QL[5] (µg/l)

[4] Methods Per QAPP, included as Appendix E.

[5] Target QLs Per QAPP, included as Appendix E.

[6] Any floaters or sinkers found must be analyzed separately for baseline parameters.

[7] Surface water only.

[8] Any unusual conditions (colors, odors, surface sheens, etc.) noticed during well development, purging, or sampling must be reported.

[9] This substance is often called Bis(2-chloroisopropyl) ether, the name Chemical Abstracts Service applies to its noncommercial isomer, Propane, 2,2'-oxybis[2]-chloro- (CAS RN 39638-32-9).

[10] Chlordane: This entry includes alpha-chlordane (CAS RN 5103-71-9), beta-chlordane (CAS RN 5103-74-2), gamma-chlordane (CAS RN 5566-34-7), and constituents of chlordane (CAS RN 57-74-9 and CAS RN 12789-03-6). PQL shown is for technical chlordane.

[11] Polychlorinated biphenyls (CAS RN 1336-36-3): This category contains congener chemicals, including constituents of Aroclor 1016 (CAS RN 12674-11-2), Aroclor 1221 (CAS RN 11104-28-2), Aroclor 1232 (CAS RN 11141-16-5), Aroclor 1242 (CAS RN 53469-21-9), Aroclor 1248 (CAS RN 12672-29-6), Aroclor 1254 (CAS RN 11097-69-1), and Aroclor 1260 (CAS RN 11096-82-5). Per Consent Order, Aroclor 1268 (11100-14-4) shall be included in the expanded parameter list.

[12] Polychlorinated dibenzo-p-dioxins: This category contains congener chemicals, including tetrachlorodibenzo-p-dioxins (see also 2,3,7,8-TCDD), pentachlorodibenzo-p-dioxins, and hexachlorodibenzo-p-dioxins. The PQL shown is an average value for PCDD congeners. Upon request of the applicant, the department may waive the requirement to analyze for dioxins, where appropriate.

[13] Polychlorinated dibenzofurans: This category contains congener chemicals, including tetrachlrodibenzofurans, pentachlorodibenzofurans, and hexachlorodibenzofurans. The PQL shown is an average value for PCDF congeners. Upon request of the applicant, the department may waive the requirement to analyze for furans, where appropriate.

[14] Toxaphene: This entry includes congener chemicals contained in technical toxaphene (CAS RN 8001-35-2), i.e., chlorinated camphene.

[15] Xylene (total): This entry includes o-xylene (CAS RN 96-47-6), m-xylene (CAS RN 108-38-3), p-xylene (CAS RN 106-42-3), and unspecified xylenes (dimethylbenzenes) (CAS RN 1330-20-7). PQLs for method 8021 are 0.2 for o-xylene and 0.1 for m- or p-xylene.

[16] Specific method requested in Consent Order

Appendix H-2

Routine Parameters List

Appendix H-2
Honeywell
Wastebeds 9-15 Closure Investigation Report
6 NYCRR Part 360 Solid Waste Management Facilities
Section 2.11 Routine Parameters List[1]

Common Name[2]	CAS RN[3]	Suggested Methods	PQL[4] (µg/l)
Field Parameters:			
Static water level(in wells and sumps)			
Specific Conductance			
Temperature			
Floaters or Sinkers[5]			
Temperature			
pH		9045C/SM4500H&B	0.01 Std units
Eh			
Dissolved Oxygen[6]			
Field Observations[7]			
Turbidity			
Leachate Indicators:			
Total Kjeldahl Nitrogen		351.2	200
Ammonia	7664-41-7	SM20 4500 NH3-G/ 350.1	20
Nitrate		300.0/8056	20
Chemical Oxygen Demand		410.4	10000
Biochemical Oxygen Demand (BOD5)		SM5210B	2000
Total Organic Carbon		SM20 5310B, 9060 M, Lloyd Kahn 1988	1000
Total Dissolved Solids		SM2540C	
Sulfate		300.0	2000
Alkalinity		SM20 2320B	5000
Phenols		420.4	10
Chloride	16887-00-6	300.0	500
Bromide	24959-67-9	300.0	200
Total hardness as CaCO3	35-50-0	SM20 2340C	2000
Inorganic Parameters:			
Cadmium	(Total)	6010C	1
Calcium	(Total)	6010C	500
Iron	(Total)	6010C	50
Lead	(Total)	6010C	5
Magnesium	(Total)	6010C	200
Manganese	(Total)	6010C	3
Potassium	(Total)	6010C	500
Sodium	(Total)	6010C	1000

Notes

[1]This list contains parameters for which possible analytical procedures are provided in EPA Report SW-846 *Test Methods for Evaluating Solid Waste* , third edition, November 1986, as revised December 1987, and *Methods for Chemical Analysis of Water and Wastes* , USEPA-600/4-79-020, March, 1979. The regulatory requirements pertain only to the list of parameters; the right hand columns (Methods and Target QL) are given for informational purposes only. See also footnote 4.

[2]Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

[3]Chemical Abstracts Service Registry Number. Where "Total" is entered, all species in the groundwater that contain this element are included.

[4]Target QLs Per QAPP, included as Appendix E.

[5]Any floaters or sinkers found must be analyzed separately for baseline parameters.

[6]Surface water only.

[7]Any unusual conditions (colors, odors, surface sheens, etc.) noticed during well development, purging, or sampling must be reported.

Appendix H-3

Baseline Parameters List

Appendix H-3
Honeywell
Wastebeds 9-15 Closure Investigation Report
6 NYCRR Part 360 Solid Waste Management Facilities
Section 2.11 Baseline Parameters List[1]

Common Name[2]	CAS RN[3]	Suggested Methods[4]	Target QL[5] (µg/l)
Field Parameters:			
Static water level (in wells and sumps)			
Specific Conductance			
Temperature			
Floaters or Sinkers[6]			
pH		9045C/SM4500H&B	0.01 Std units
Eh			
Dissolved Oxygen[7]			
Field Observations[8]			
Turbidity			
Leachate Indicators:			
Total Kjeldahl Nitrogen		351.2	200
Ammonia	7664-41-7	SM20 4500 NH3-G/ 350.1	20
Nitrate		300.0/9056	20
Chemical Oxygen Demand		410.4	10000
Biochemical Oxygen Demand (BOD_5)		SM5210B	2000
Total Organic Carbon		SM20 5310B, 9060 M, Lloyd Kahn 1988	1000
Total Dissolved Solids		SM2540C	
Sulfate		300.0	2000
Alkalinity		SM20 2320B	5000
Phenols		420.4	10
Chloride	16887-00-6	300.0	500
Bromide	24959-67-9	300.0	200
Total hardness as CaCO3	35-50-0	SM20 2340C	2000
Color		SM20 2120B	0CU
Boron	7440-42-8	6010C	20
Inorganic Parameters:			
Aluminum	(Total)	6010C	200
Antimony	(Total)	6010C	20
Arsenic	(Total)	6010C	10
Barium	(Total)	6010C	2
Beryllium	(Total)	6010C	2
Cadmium	(Total)	6010C	1
Calcium	(Total)	6010C	500
Chromium	(Total)	6010C	4
Chromium(Hexavalent)*	15723-28-1	3060A/7199	10
Cobalt	(Total)	6010C	4
Copper	(Total)	6010C	10
Cyanide	(Total)	9012A/9012B/9014	10
Iron	(Total)	6010C	50
Lead	(Total)	6010C	5

Appendix H-3
Honeywell
Wastebeds 9-15 Closure Investigation Report
6 NYCRR Part 360 Solid Waste Management Facilities
Section 2.11 Baseline Parameters List[1]

Magnesium	(Total)	6010C	200
Manganese	(Total)	6010C	3
Mercury	7439-97-6	1631[16]	0.0005
Nickel	(Total)	6010C	10
Potassium	(Total)	6010C	500
Selenium	(Total)	6010C	15
Silver	(Total)	6010C	3
Sodium	(Total)	6010C	1000
Thallium	(Total)	6010C	20
Vanadium	(Total)	6010C	5
Zinc	(Total)	6010C	10
Organic Parameters:			
Acetone	67-64-1	8260	10
Acrylonitrile	107-13-1	8260	5
Benzene	71-43-2	8260	1
Bromochloromethane; Chlorobromomethane	74-97-5	8260	1
Bromodichloromethane; Dibromochloromethane	75-27-4	8260	1
Bromoform; Tribromomethane	75-25-2	8260	1
Carbon disulfide	75-15-0	8260	1
Carbon tetrachloride	56-23-5	8260	1
Chlorobenzene	108-90-7	8260	1
Chloroethane; Ethyl chloride	75-00-3	8260	1
Chloroform; Trichloromethane	67-66-3	8260	1
Dibromochloromethane; Chlorodibromomethane	124-48-1	8270	1
1,2-Dibromo-3-chloro- propane; DBCP	96-12-8	8260	1
1,2-Dibromoethane; Ethylene dibromide; EDB	106-93-4	8260	1
o-Dichlorobenzene; 1,2-Dichlorobenzene	95-50-1	8260	1
p-Dichlorobenzene; 1,4-dichlorobenzene	106-46-7	8260	1
trans-1,4-Dichloro- 2-butene	110-57-6	8260	5
1,1-Dichloroethane; Ethyldidene chloride	75-34-3	8260	1
1,2-Dichloroethane; Ethylene dichloride	107-06-2	8260	1
1,1-Dichloroethene; Vinylidene chloride; 1,1-Dichloroethylene	75-35-4	8260	1
cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene	156-59-2	8260	1
trans-1,2-Dichloroethylene	156-60-5	8260	1
trans-1,2-Dichloroethene	156-60-5	8260	5
1,2-Dichloropropane; Propylene dichloride	78-87-5	8260	1
cis-1,3-Dichloropropene	10061-01-5	8260	1
trans-1,3-Dichloropropene	10061-02-6	8260	1
Ethylbenzene	100-41-4	8260	1
2-Hexanone; Methyl butyl ketone	591-78-6	8260	10
Methyl bromide; Bromomethane	74-83-9	8260	1
Methyl chloride; Chloromethane	74-87-3	8260	1
Methyl ethyl ketone; MEK; 2-Butanone	78-93-3	8260	10
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1	8260	10
Methylene bromide; Dibromomethane	74-95-3	8260	1

Appendix H-3
Honeywell
Wastebeds 9-15 Closure Investigation Report
6 NYCRR Part 360 Solid Waste Management Facilities
Section 2.11 Baseline Parameters List[1]

Methylene chloride; Dichloromethane	75-09-2	8260	1
Styrene	100-42-5	8260	1
1,1,1,2-Tetrachloroethane	630-20-6	8260	1
1,1,2,2-Tetrachloroethane	79-34-5	8260	1
Tetrachloroethylene; Tetrachloroethene;	127-18-4	8260	1
Toluene	108-88-3	8260	1
1,1,1-Trichloroethane; Methylchloroform	71-55-6	8260	1
1,1,2-Trichloroethane	79-00-5	8260	1
Trichloroethylene; Trichloroethene	79-01-6	8260	1
1,2,3-Trichloropropane	96-18-4	8260	1
Trichlorofluoromethane; CFC-11	75-69-4	8260	1
Vinyl acetate	108-05-4	8260	5
Vinyl chloride; Chloroethene	75-01-4	8260	1
Xylene (total)	See Note 9	8260	2

Notes:

[1]The regulatory requirements pertain only to the list of substances; the right hand columns (Methods and PQL) are given for informational purposes only. See also footnotes 4 and 5.

[2]Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

[3]Chemical Abstracts Service registry number. Where "Total" is entered, all species in the groundwater that contain this element are included.

[4] Methods Per QAPP, included as Appendix E.

[5] Target QLs Per QAPP, included as Appendix E.

[6]Any floaters or sinkers found must be analyzed separately for baseline parameters.

[7]Surface water only.

[8]Any unusual conditions (colors, odors, surface sheens, etc.) noticed during well development, purging, or sampling must be reported.

[9]Xylene (total): This entry includes o-xylene (CAS RN 96-47-6), m-xylene (CAS RN 108-38-3), p-xylene (CAS RN 106-42-3), and unspecified xylenes (dimethylbenzenes) (CAS RN 1330-20-7). PQLs for method 8021 are 0.2 for o-xylene and 0.1 for m- or p-xylene.

[10]Specific method requested in Consent Order

Appendix I

Phase 1 SAA Scope of Work (on CD at end of Appendices)

Honeywell
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September 18, 2009

Ms. Mary Jane Peachey, P.E.
Regional Manager
New York State Department of Environmental Conservation
615 Erie Boulevard West
Syracuse, New York 13204-2400

Re: Responses to comments on "Surrounding Affected Area Proposed Phase 1 Scope of Work for Wastebeds 9-15"

Dear Ms. Peachey:

This letter transmits Honeywell's responses to New York State Department of Environmental Conservation (NYSDEC) comments (letter dated June 3, 2009) on the "Surrounding Affected Area Proposed Phase 1 Scope of Work for Wastebeds 9-15". The document includes NYSDEC comments with Honeywell's response to each comment on a comment by comment basis. Also attached is the revised Phase 1 Scope of Work (SOW), which incorporates those comment responses.

Please contact Jim Heckathorne of O'Brien & Gere or me if you should have any questions.

Sincerely,

John P. McAuliffe

John P. McAuliffe, P.E.
Program Director, Syracuse

Attachments

cc: Mr. Thomas Annal - NYSDEC, Region 7
Mr. Brian Baker - NYSDEC, Albany
Mr. James Burke - NYSDEC, Region 7
Michael Caruso, Esq. - NYSDEC, Albany
Carol Conyers, Esq. - NYSDEC, Albany
Margaret Sheen, Esq. – NYSDEC Region 7 (ltr only)
Mr. James Gruppe - NYSDEC, Region 7
Ms. Jaime Lang - NYSDEC, Albany
Ms. Sandy Lizlovs - NYSDEC, Region 7
Mr. Kenneth Lynch - NYSDEC, Region 7
Mr. Scott Menrath - NYSDEC, Albany
Mr. William Hague - Honeywell
Mr. John McAuliffe - Honeywell
Mr. Christopher Calkins - O'Brien & Gere
Mr. James R. Heckathorne - O'Brien & Gere
Brian Israel, Esq. - Arnold & Porter

Responses to comments on "Surrounding Affected Area Proposed Phase 1 Scope of Work for Settling Basins 9-15"

NYSDEC comments are addressed below on a comment by comment basis starting with the General Comments (1 through 3) followed by the Specific Comments (4 through 21).

1. General: The purpose of the Scope of Work is to help define contents for an investigative work plan which is required in the draft consent order for the surrounding affected area (SAA). Citations for the SAA are in both the Part 360 and SAA appendices of the draft consent order. The SAA (that which has been impacted from waste bed contents) needs to be defined through sampling, field studies, testing and data evaluation. This work will result in development of an investigative work plan.

Response: Comment noted. Text from the comment will be incorporated into the revised SOW Introduction.

2. General: We have agreed in past meetings that a site reconnaissance/field visit would assist us in defining future investigative needs and identifying additional sampling locations. This meeting has been set for 10:00 a.m. Tuesday, June 9, 2009 at the waste beds.

Response: The field visit was completed as scheduled. A second reconnaissance was completed on July 22, 2009 to establish sampling reach locations in Ninemile Creek and decide on a stream assessment protocol to be conducted in each reach. Honeywell and NYSDEC representatives agreed on locations of six sampling reaches and one reference reach (Figure 5 of revised SOW). Representatives also agreed to follow the USDA Steam Visual Assessment Protocol (1998), and to collect 8-12 benthic macroinvertebrate samples within each reach using a D-frame kick net. Benthic macroinvertebrate samples will be preserved in ethyl alcohol and transported back to the lab for specimen identification. We are awaiting response from NYSDEC regarding our proposed site visit to establish survey methods and areas for the adjacent wetlands/floodplain.

3. General: It would be helpful to have data referenced in the Scope of Work included as an appendix. Please include available data to support statements and further define existing conditions in future submittals.

Response: Comment noted. Data referenced in the SOW and not appearing in published reports will be included as an appendix to the revised SOW.

4. Introduction, first paragraph: Please add <u>chemical</u> impacts to the list of physical and biological impacts of the settling basins on the SAA. Additionally, the Department believes that additional Phase 2 investigations <u>will</u> be necessary. Investigative work is iterative and future actions are generally dictated by results from previous sampling and evaluation. This often includes additional sampling to help draw conclusions and fill data gaps. Work may be necessary in the tributaries, flood plains, wetlands and other areas containing wastes and may be at greater depths. The revised Scope of Work should reflect this work. Also, please delete "mitigation" and replace with "abatement."

Response: The text will be revised in accordance with the comment to note that a Phase 2 investigation will follow.

5. Introduction, second paragraph: This paragraph provides a general site description of the SAA which appears, at this time, to be premature and limiting. The boundaries of the SAA should extend from the

Amboy Dam downstream through Nine Mile Creek to its mouth, where it flows into Onondaga Lake. The amount of chloride contribution to Nine Mile Creek is substantial and its affects need to be defined. Additional toxicity testing at or near State Fair Blvd. and perhaps even at the mouth need to be considered. The SAA, at least at this time, shall include SYW-18, in addition to SYW-10, SYW-15, CAM-21, CAM-25, and CAM-26 until sufficient information is provided to support eliminating one or more of these areas from the SAA.

Response: Based on our understanding of the hydrogeology of the site (see Settling Basins 9 through 15 Hydrogeologic Setting Summary provided to NYSDEC on March 31, 2009) and the fact that the Ninemile Creek OU1 and OU2 remedies will address Ninemile Creek (NMC) channel sediment and floodplain soil/sediment adjacent to the channel and in Wetlands SYW-18 and SYW-10, we consider the SAA to consist of the following for the Phase 1 investigation:

- Ninemile Creek surface water from Amboy Dam to the upstream boundary of NMC OU1
- Ninemile Creek channel sediment and floodplain soil/sediment from Amboy Dam to the upstream boundary of NMC OU1
- CAM-21 (upstream boundary in Beaver Meadow Brook to be determined), and CAM-26
- Iron Brook and the Outfall 19 ditch
- The Interbed area
- Gravel pit

At our June 9 site meeting we agreed that it would not be necessary to include SYW-18 and SYW-10 within the SAA since those areas are addressed in a separate Record of Decision (ROD) and Proposed Remedial Action Plan (PRAP). The same is true regarding toxicity texting near State Fair Blvd and the mouth of the creek. Because decisions have already been made on how these areas will be remediated, additional data from those areas would not be useful. Wetland SYW-15 and CAM-25 are not included because they are located significantly upstream of Settling Basins 9-15 both in terms of elevation and potential hydrological influence.

The boundaries of the SAA and SOW were further defined, in part, based on the results of the site reconnaissance conducted on July 22, 2009. Honeywell and NYSDEC representatives agreed that biological sampling of the Interbed area, gravel pit, Iron Brook, and the Outfall 19 drainage ditch was not required due to biological insignificance. Honeywell and NYSDEC representatives also discussed toxicity testing and agreed that toxicity testing is typically conducted using soft sediments from depositional areas, and that these areas appeared to be scarce in the SAA portion of Ninemile Creek. Such conditions may further complicate interpretation of results. Ultimately, toxicity testing conversations were not conclusive, and NYSDEC recommended further dialogue to be initiated by NYSDEC after consultation with internal experts.

6. Site Background, Section 2.1 Hydrologic Setting: As discussed in my May 5, 2009 letter on the hydrogeology report, once precipitation comes in contact with waste, leachate is generated. Please revise the Scope of Work accordingly. Additionally, discharge of any leachate to the environment is not authorized, is a violation of the ECL and measures are necessary to prevent this from happening. Discharge from the weir boxes and seeps will need to be sampled as part of the SAA investigative work plan. Groundwater will also be evaluated as part of the closure investigation work plan required under the draft Consent Order and 6NYCRR Part 360.

Response: As noted in our June 17, 2009 revision to the Hydrogeologic Setting document, we propose to discuss the issue of whether mounded groundwater within the settling basins should be referred to as "leachate" at our next technical meeting. We anticipate this meeting will occur in mid to late October 2009. Discharges of leachate to the environment will be addressed as part of the ongoing Seeps Mitigation program, and seeps/weir box flow will be sampled as practicable during the SAA investigation.

7. Site Background: As stated in my May 5, 2009 hydrogeology letter, it is appropriate, through hydrogeologic investigation, to determine which areas of Nine Mile Creek are gaining and which are losing. Of concern are the areas of Nine Mile Creek that may receive horizontal flow from the waste beds.

Response: Historic groundwater elevations presented in earlier studies of the area adjacent to the portion of Ninemile Creek west of Settling Basin 13 (from Amboy Dam to the Hudson Farm/Beaver Meadow Brook vicinity) were lower than the elevation of the stream itself, suggesting Ninemile Creek is a losing stream in this area. These earlier reports indicated that geologic conditions may govern which areas of Ninemile Creek may gain groundwater and which areas may lose surface water to the subsurface. The discontinuity of these historic fluvial deposits across the area adds to the complexity of predicting whether the creek is losing or gaining. In addition, while creek bed sediment may affect the rate of exchange between the surface water and the groundwater, the hydraulic potential between the groundwater and the creek is more likely governed by the area geology. The Closure Investigation Work Plan, which will be prepared subsequent to execution of the Consent Order, will include further investigation to evaluate which areas of Ninemile Creek are gaining and which are losing.

8. Section 2.2 Historic Chemical Data: It is appropriate to perform additional monitoring to support statements regarding the area near the Erie Canal and waste bed 15 and mercury and PCB detections.

Response: The Closure Investigation Work Plan, which will be prepared subsequent to execution of the Consent Order, will include a comprehensive long-term monitoring program for the Site. This monitoring program will generate the data necessary to evaluate current and future contaminant conditions at the Site.

9. Section 2.2.1, 2nd paragraph: Please delete the word "select" from this paragraph.

Response: The text will be revised in accordance with the comment.

10. Section 3.0 Site Conceptual Model: Since the primary goal of the SAA investigative work plan is to determine the affects of past operations and disposal practices, it is appropriate for the work plan to include removal of visual waste deposits with confirmation sampling to determine removal effectiveness. Additionally, wetland CAM-26 is close to waste bed 14 and an evaluation of impact should also be included. Finally, the purpose of this section is unclear, please state its intent and how it relates to a site conceptual model.

Response: Removal of visual waste deposits and confirmation sampling to determine removal effectiveness will be more appropriate subsequent to completion of the Phase 2 investigation. In addition, CAM-26 will be evaluated for impacts of Solvay Waste, as stated in the first paragraph of Section 4.4 in the original SOW. In this instance, the Site Conceptual Model was included to describe our current understanding of the mechanisms by which settling basin related constituents may migrate into and behave within the SAA. These fate and transport mechanisms will be further evaluated within the phased SAA investigation.

11. Section 4.0 Scope of Work: A baseline toxicity test should be conducted in the vicinity of the Amboy Dam to ensure that the waters upstream of the contaminated reach are not impacted from the waste beds.

Response: At the conclusion of the July 22, 2009 site reconnaissance, Honeywell and NYSDEC agreed that Honeywell will provide summaries of historic toxicity test results conducted in the SB 9-15 area in the revised SOW. This information will be provided as an appendix in the revised SOW. NYSDEC agreed to provide additional input on toxicity testing as it relates to this SOW.

12. Section 4.0 Scope of Work: It is appropriate to include a benthic macro-invertebrate sampling site sufficiently upstream of Camillus to eliminate concerns from potential contribution in this area.

Response: During the July 22, 2009 site visit, Honeywell and NYSDEC agreed that sampling upstream in the vicinity of Camillus was not required and that the benthic macroinvertebrate reference site location will consist of the creek reach located just below Amboy Dam.

13. Section 4.0 Scope of Work: Benthic macro-invertebrate sampling needs to be done in at least one location downstream of Geddes Brook in OU1.

Response: See response to Comment 5. Additionally, Honeywell and NYSDEC agreed at the July 22, 2009 site reconnaissance that additional toxicity testing in the OU1 area of Ninemile Creek would not be necessary if such testing was conducted previously.

14. Section 4.0 Scope of Work: Water and sediment, as well as groundwater, in the interbed area must be evaluated as part of the SAA (if not required by other appendices in the consent order) to ascertain existing conditions and the need for abatement. Surface water and groundwater in or near the gravel pit located west of waste bed 13 must also be evaluated for the SSA.

Response: Groundwater and sediment from the Interbed area and surface water from the gravel pit and the Interbed area were sampled as part of the Leachate Minimization/End Use Program in 2005 and 2006. The analytical results will be presented as an appendix in the revised SOW.

15. Section 4.0 Scope of Work: It is necessary that surface water that enters storm water swales must be truly storm water. It is appropriate to determine the quality of this water.

Response: Storm water quality will continue to be monitored as part of the ongoing SPDES compliance monitoring program. Areas where seeps are impacting storm water will be mitigated as part of the ongoing Seeps Mitigation Program.

16. Section 4.0: The scope of work should include subsections for Iron Brook and the drainage ditch.

Response: The text will be revised in accordance with the comment, keeping in mind the agreement between Honeywell and NYSDEC, established at the July 22, 2009 site reconnaissance, stating biological assessment of Iron Brook, the Outfall 19 drainage ditch, as well as the Interbed area and gravel pit, is not necessary. Chemical analysis, if deemed appropriate, will be conducted in these locations as part of Phase 2 efforts.

17. Section 4.1, 2nd sentence: Add Iron Brook and the drainage ditch to those areas for visual evaluation on June 9, 2009.

Response: As stated above, Honeywell and NYSDEC agreed, at the July 22, 2009 site reconnaissance, that biological assessment of Iron Brook, the Outfall 19 drainage ditch, the Interbed area, and gravel pit is not necessary due to their biological insignificance.

18. Section 4.2: The protocol referenced in this section provides guidance for visual stream assessments. Please be aware that data, our upcoming field visit, historical information, etc. may justify expansion or modification of this protocol as we progress through the investigative and abatement work.

Response: Comment noted, and included in recommendations for possible Phase 2 investigations provided in Section 5.0 Schedule and Reporting of the revised SOW.

19. Section 5.0: Please replace "may" and "could" with "will and "shall" respectively. Replace "restoration" with "abatement."

Response: The text will be revised in accordance with the comment.

20. The investigative work plan shall include proposed sampling locations (defined using existing information and the field visit) and list analytes, and include, at a minimum, dissolved oxygen, conductively, temperature and pH. Stream flow data from the USGS gauge stations in Camillus and Lakeland will be used to determine stream flow.

Response: Locations of stream reaches to be assessed were established during the July 22, 2009 field visit and appear in Figure 5 of the revised SOW. The associated text will be revised to include measurement and recording of dissolved oxygen, conductivity, temperature, turbidity, and pH using a direct reading water quality instrument (e.g. Horiba U10). Data from the USGS gauging station in Lakeland will be used to determine stream flow for the days that sampling is performed. No gauging station in Camillus was identified.

21. Based on the initial site assessment, the work shall also include representative locations to conduct sediment toxicity testing. Recommended vertebrate and invertebrate species will be provided. This is an appropriate Phase 2 task.

Response: Comment noted. Honeywell awaits additional input from NYSDEC concerning the requirement to perform the toxicity testing.

References

United States Department of Agriculture (USDA). 1998. *Stream Visual Assessment Protocol*. National Water and Climate Center, NWCC Technical Note 99-1, December 1998.

Settling Basins 9 through 15 Investigation
Surrounding Affected Area
Proposed Phase 1 Scope of Work

1.0 Introduction

This document presents the revised draft Phase 1 Scope of Work (SOW) for the investigation of the Settling Basins 9 through 15 Site (SB 9-15) Surrounding Affected Area (SAA) (Site). Guidance for development of this document was provided by the SB 9-15 Site Draft Consent Order (Draft Order) Index No. D-7-0001-02-03, Site No. 7-34-076 for closure of SB 9-15, and is in accordance with discussions between Honeywell and the New York State Department of Environmental Conservation (NYSDEC). The Draft Order contemplates an integrated approach to closure of SB 9-15 using an alternative, evapotranspiration cover system, and includes related measures associated with abatement of leachate seeps, enhancement of the existing leachate collection system, and evaluation and further stabilization of the settling basin berms. As part of the overall closure plan for the Site, an assessment of the potential impacts caused by the settling basins on the surrounding area will be performed.

The purpose of this SOW is to outline activities that will provide information to help define for the scope of an investigative work plan which would be prepared pursuant to the Draft Order for the SAA. The SAA (that which has been impacted by settling basin contents) needs to be defined through visual assessment, field studies, sampling, testing and data evaluation. This work will result in development of an investigative work plan that assesses potential chemical, physical, and biological impacts of the settling basins on the SAA. Completion of the activities described in Section 4.0 of this SOW will result in recommendations for additional (Phase 2) investigations.

The SAA generally consists of the Ninemile Creek channel, floodplain, and associated wetlands between Amboy Dam and the upstream boundary of Ninemile Creek Operable Unit 1, as well as the drainage ditch downstream of Outfall 019, the gravel pit, and Iron Brook (Figure 1). These areas have been sampled in the course of various investigations. Historical chemical and biological data are summarized in Section 2 along with a description of the hydrologic setting.

2.0 Site Background

2.1 Hydrologic Setting

The Site hydrologic setting is influenced by the presence of the mounded Solvay Waste comprising SB 9-15. Precipitation that falls on the settling basins either runs off or infiltrates into the Solvay Waste. Surface water that runs off of the settling basins either enters surrounding storm water swales, is collected by perimeter drains of the Leachate Collection and Conveyance System (LCCS), or enters surface water bodies adjacent to the settling basins. Ninemile Creek, a perennial stream with an average annual flow of roughly 180 cubic feet per second (cfs) and a base flow of 90 cfs bisects the Site. Settling Basins 9, 10 and 11 are located to the north of Ninemile Creek with a large portion of the southern berms of these basins directly adjacent to the Creek itself. Settling Basins 12, 13, 14 and 15 are located to the south of Ninemile Creek. The Interbed area between SB 9-10 and SB 11 also collects run-off from the surrounding settling basins.

The portion of precipitation falling on the settling basins that does not run off as overland flow or evaporate from the surface infiltrates into the Solvay Waste creating a groundwater mound within the settling basins. The groundwater of the Site can be broken into two units: the shallow groundwater, and the deep overburden groundwater. The shallow groundwater system consists of groundwater within the Solvay Waste in the settling basins and in the native overburden. Shallow groundwater generally flows horizontally towards the weir boxes in the settling basins, and outward towards the berms where it discharges as seeps, discharges to perimeter LCCS, or discharges vertically downward to the deep overburden groundwater system. The deep overburden groundwater system consists of groundwater in the deeper unconsolidated materials. The shallow groundwater is in hydraulic connection with the deep overburden groundwater through the relatively permeable overburden material that was deposited within the Ninemile Creek Valley. This hydraulic connection allows interaction between shallow and deep groundwater and also allows higher density leachate to migrate to the deep groundwater.

The portion of groundwater within the basins that does not discharge to seeps, weir boxes, and perimeter drains likely becomes a part of the Ninemile Creek groundwater system. Vertical hydraulic gradients within the settling basins are downward.

Groundwater mounding occurring in SB 9-15 produces a steeper hydraulic gradient along the edges of the settling basins and lower hydraulic gradient away from the settling basins towards Ninemile Creek. The horizontal change in gradients is due to the difference in permeability between the settling basin materials and the native sediments in combination with the high topographic relief along the edge of the settling basins. In general, the shallow groundwater in the native deposits discharges to Ninemile Creek making the Creek a gaining stream (groundwater discharges to the stream). However, groundwater elevations adjacent to the portion of Ninemile Creek west of SB 13 (from Amboy Dam to the Hudson Farm/Beaver Meadow Brook vicinity) are lower than the elevation of the stream itself suggesting Ninemile Creek is a losing stream in this area. Similar conclusions were presented in earlier studies of the area (BBL 1989, 1999). Differences in permeability between settling basin materials and native sediments dictate the rate and quantity of exchange.

2.2 Historic Chemical Data

A Conceptual Site Model (CSM) was developed by O'Brien & Gere describing current geological and hydrologic conditions at SB 9-15. This model incorporated data from BBL (1989, 1999) as well as information and results collected during the work proposed in the Work Plan for Settling Basins 9 through 15, Leachate Minimization/End Use Program, Camillus and Geddes, New York (O'Brien & Gere 2009). This data was included in a package submitted to NYSDEC (M. J. Peachy) dated February 24, 2009. Groundwater, surface water, and sediment data for the Interbed area from that package, as well as surface water data from the gravel pit are provided in Appendix 1. Below is a general discussion of the CSM relative to surface and groundwater and sediment associated with the Site. The overall CSM is discussed in Section 3.

2.2.1 Groundwater

The CSM classified the Site groundwater as calcium-sodium-chloride type waters. This signature is typical for waters impacted by leachate from the Solvay Process. Wells located on and near SB 9-15 (Figure 2) all appear to have been impacted to some degree by leachate with the exception of one well cluster located roughly half a mile to the west and upgradient of SB 13, and a well located along SB 11 adjacent to Ninemile Creek which had groundwater composed of a sodium-chloride brine similar in composition to the brines beneath Onondaga Lake.

Volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) in SB 9-11 groundwater were only found in wells located in the roadway adjacent to SB 9-10 and in wells located adjacent to the Interbed area. VOCs/SVOCs included benzene and chlorobenzene and are found in concentrations of 100 ug/L or less.

VOCs/SVOCs in the groundwater from SB 12-15 areas were documented in the southwest corner of SB 15, within SB 12-13, and along the northern edge of SB 12-13. The principal VOCs/SVOCs present included benzene, chlorinated benzenes, and acetone. Benzene and chlorinated benzenes in SB 15 and along the northern border of SB 12-13 were detected beneath and outside of the settling basins, respectively, and have been attributed to the landfill refuse in the Former Erie Canal. Ozene (emulsifiable o-dichlorobenzene), in particular, was used to control odors while placing the refuse. The Former Erie Canal crosses SB 15 in a west-east direction. VOCs/SVOCs in SB 12-13 were detected within the shallow, intermediate, and deep portions of the settling basins.

Mercury was detected in only one monitoring well in each of the two BBL sampling events. PCBs were detected in only one monitoring well and concentration levels were below the detection limit.

2.2.2 Surface Water

Surface water in the Ninemile Creek valley is dominated by Ninemile Creek and flows from the southwest to the northeast through the valley and discharges to Onondaga Lake. Ninemile Creek was rerouted in the area between SB 9-11 and SB 12-15. The average annual flow of Ninemile Creek is 180 cfs (based on USGS data from 1971-2000) prior to discharging to Onondaga Lake at Lakeview Point near the State Fair Grounds.

The CSM incorporated surface water parameters collected since 1989. Parameters monitored include cations/anions, alkalinity, total dissolved solids (TDS), conductivity, and temperature in surface water of Ninemile Creek (O'Brien & Gere 2009). Surface water quality samples collected upstream of the settling basins have much lower concentrations of chloride, calcium, and sodium than samples collected adjacent to the settling basins and downstream of the settling basins. The surface water of Ninemile Creek can be classified in general as a calcium carbonate plus sulfate type water. This is likely due to the carbonate and shale bedrock located along the upper portions of Ninemile Creek. The chloride concentrations increase as the stream flows past the settling basins, as indicated by water samples collected near the Interbed area and in the sample collected just downstream of the Site. The surface water collected from the gravel pit adjacent to SB 13 (Figure 3) also has a signature that indicates leachate discharge (Appendix 1).

Conductivity surveys conducted on Ninemile Creek in 2005, 2006 and 2008 documented that significant chloride loading occurs in five short stream reaches with little or no chloride loading occurring between these points (O'Brien & Gere 2009). The chloride loading to Ninemile Creek in the vicinity of SB 9-15 is currently estimated to be on the order of 100 tons per day on an average annual basis. The chloride loading has decreased by about a factor of two since 1992 when it was estimated to be about 200 tons per day. An estimated 76 percent of the loading occurred in two small reaches adjacent to the southern berm of SB 11.

BBL (1999) tested for VOCs, SVOCs, PCBs, metals, and supplemental parameters in Ninemile Creek. VOCs were detected in downstream locations, east of the Interbed area to the mouth of the creek. VOCs detected in Ninemile Creek include acetone and chlorobenzene. SVOCs, mercury, and PCBs were not detected in any Ninemile Creek surface water samples.

The Geddes Brook/Ninemile Creek Baseline Ecological Risk Assessment (GB/NMC BERA) (TAMS 2003) included sampling and chemical analysis of water at locations NM1 (Three Aqueduct Park), NM2 (Amboy Dam), NM3 (along SB11), NM4 (between the Interbed area and the confluence of Geddes Brook), and GB5 (the Iron Brook area) (Figure 4). In Ninemile Creek, concentrations of metals were generally low and unchanged from NM1 to NM3 while concentrations of chloride, calcium, sodium, and total dissolved solids increased slightly between NM2 and NM3 and more significantly between NM3 and NM4. Concentrations of chloride, calcium, sodium, and total dissolved solids were higher at GB5 than at any other station sampled during the RI. These constituents are markers of Solvay Waste which typically consisted of calcium carbonate (50 percent), calcium chloride (11 percent), calcium hydroxide (11 percent), sodium chloride (9 percent), and smaller percentages of other constituents (silica, magnesium oxide, calcium sulfate, and aluminum and iron oxides) (BBL 1999). The only organic contaminants detected in the SAA surface waters were dioxins/furans at NM2 and chlorobenzene at NM3, NM4, and GB5, with only the concentration at GB5 slightly exceeding the NYSDEC chronic value for protection of aquatic life.

2.2.3 Sediment

BBL (1999) tested for VOCs, SVOCs, PCBs, metals, and supplemental parameters in sediments of Ninemile Creek in the vicinity of SB 9-15. Several VOCs were detected in Ninemile Creek sediments as was mercury (detected in 2 of 3 locations sampled), but all detections were from locations downstream of the Interbed area to the mouth of the creek. PCBs were not detected in the Ninemile Creek sediment samples.

The GB/NMC BERA (TAMS 2003) included sampling and chemical analysis of sediment at locations NM1, NM2, NM3, and NM4. Floodplain soil samples were also collected at NM1 and NM2. In general, constituent concentrations in sediment were generally low and unchanged from NM1 to NM4 and increased (for mercury and organic contaminants) downstream of the Geddes Brook confluence.

The Ninemile Creek OU1 Supplemental Feasibility Study (Parsons 2008) included sediment sampling and mercury analysis in NYS Wetland SYW-18 for delineation of remedial areas. No other sampling in the SAA was conducted under this effort.

Sediments from the Interbed area were sampled as part of the Settling Basins 9 through 15, Leachate Minimization/End Use Program (O'Brien & Gere 2009) and results are provided in Appendix 1.

2.3 Historic Biological Data

Three major investigations have documented the condition of the biological community in portions of the SAA. In 1990, CDR Environmental Specialists, Inc. (CDR) performed an environmental assessment of the lower reaches of Ninemile Creek and Geddes Brook including the SAA (CDR 1991). The study included stream physical and chemical assessment, benthic macroinvertebrate community assessment, sediment toxicity testing, fish community assessment, and mercury and PCB analysis in fish tissue. Detailed maps in the report provide information on the location of pool and riffle habitats. Results from Ponar samples taken in soft substrates and Surber samples taken from hard substrates indicate there are few important differences between reference macrobenthic communities and communities potentially impacted by SB 9-15 effluents. Calcite formations characterizing the downstream-island section of Ninemile Creek supported substantial macroinvertebrate populations. Sediment toxicity test results indicated that sediment toxicity increased with increasing distance downstream in both lower Geddes Brook and lower Ninemile Creek, and that survival and growth of midges and amphipods in this area were essentially unaffected by exposure to calcitic materials common to the downstream sections of

Ninemile Creek (Figure 4, Appendix 2). Water temperature and TDS were identified as the major potential threats to aquatic life. Potential mercury-related hazards were generally confined to the most downstream stretch of Ninemile Creek, starting at the confluence with Geddes Brook (Figure 4). The biological integrity of the fish communities in Ninemile Creek was rated as good to excellent. Only 1 of 19 fish tissue samples exhibited mercury body burdens exceeding FDA action levels. PCBs were detected at a low level in 1 of 3 fish tested.

In 1998, Exponent (2001) conducted a remedial investigation of Geddes Brook and Ninemile Creek that included benthic macroinvertebrate community analysis and sediment toxicity testing, and fish collection and analysis. In addition, a habitat evaluation involving both field observations and aerial photograph interpretation was performed with the objective of assessing the value of the habitat to fish and wildlife and the resource value to wildlife and humans. The habitat evaluation included a fish spawning survey in Ninemile Creek. Results of the habitat evaluation were presented in Appendix F of the GB/NMC BERA (TAMS 2003) and discussed in Chapter 3 of the GB/NMC BERA along with results from the CDR report (1991). In general, Ninemile Creek between Amboy Dam and the Airport Road overpass includes abundant deadfalls, shaded areas, submerged aquatic vegetation, and logjams that provide good fish habitat. Downstream from the Airport Road and Conrail overpasses, the creek is channelized and common reed begins to dominate the shoreline. However, shallow areas in pools and riffles of this reach and in slow areas upstream of the Geddes Brook confluence support submerged aquatic vegetation and associated small fish, invertebrates, and tadpoles while deeper areas are likely to harbor larger fish. Benthic macroinvertebrate community analysis in Ninemile Creek indicated some form of moderate impairment at all stations including the reference station located above Amboy Dam, and some form of severe impairment at 4 of the 5 stations. Sediment toxicity test results were consistent with CDR (1991) results as sediment toxicity in Geddes Brook appeared to occur only in areas downstream from the confluence with the West Flume, and, for Ninemile Creek, sediment toxicity appeared to occur only in areas downstream from the confluence with Geddes Brook (Figure 4, Appendix 2).

An ecological assessment ("BioBlitz") was conducted by SUNY ESF in 2005 in the Hudson Farm area (Hudson Farm Survey Team 2005). Hudson Farm is a 98-acre parcel of land in Camillus, New York located along the northwestern bank of Ninemile Creek between Amboy Dam and Beaver Meadow Brook (Figure 1). This area is generally within the limits of NYS Wetland CAM 21. The objective of the BioBlitz was to evaluate the site's natural resources and outdoor recreational potential. The BioBlitz team assessed the physical characteristics, floral and faunal communities, and the current and potential recreational uses of the Hudson Farm property, including the reach of Ninemile Creek from Amboy Dam to the Airport Road bridge. Stream and stream bank physical characterization, water chemistry, and fish community assessments were conducted. Key findings in the report (Hudson Farm Survey Team 2005) relative to this SOW were that Ninemile Creek provides: conditions suitable for brown trout reproduction, high habitat and species diversity, and abundant opportunities for recreational use enhancement.

3.0 Site Conceptual Model

Based on the hydrology of the SAA and the historical chemical data, the SAA appears to be primarily affected by leachate or groundwater from the settling basins which manifests as a calcium precipitate in Ninemile Creek beginning in the vicinity of the confluence with Beaver Meadow Brook, a marked increase in total dissolved solids (as well as temperature and conductivity) in a discrete area along SB 11, a more gradual increase in total dissolved solids between NM3 and NM4 alongside SB 9-11, and elevated concentrations of total dissolved solids and other Solvay Waste constituents in Iron Brook. There is also evidence of calcitic material in the Ninemile Creek bed, particularly along the northern banks, adjacent to

SB 9-11. Other than Solvay Waste constituents, however, there is little evidence of contamination by metals, including mercury, or organic compounds in the SAA.

Regarding wetlands, it is unlikely that Beaver Meadow Brook and the portion of Wetland CAM 21 associated with the brook have been affected by the settling basins as they are on the opposite side of Ninemile Creek from the settling basins. It is possible that the portion of Wetland CAM 21 associated with the Hudson Farm property may receive groundwater associated with the adjacent SB 13 since Ninemile Creek transitions from a losing stream to a gaining stream in this vicinity. Upstream of this area, groundwater impacts are unlikely because the wetland is located further away from the settling basins and a gravel pit with standing water is situated between SB 13 and Ninemile Creek. Wetland CAM 25 is located at the upstream limit of the potential area of influence of SB 9-15 and is unlikely to receive groundwater or run-off from the settling basins.

The SAA provides good habitat for fish and invertebrate species, particularly in the Hudson Farm area where abundant deadfalls, shaded areas, submerged aquatic vegetation, and logjams are present. While the lower portion of the SAA (from the Airport Road overpass to the confluence with Geddes Brook) is channelized and dominated by common reed along the banks, shallow areas in pools and riffles of this reach and in slow areas support submerged aquatic vegetation and associated small fish, invertebrates, and tadpoles while deeper areas are likely to harbor larger fish. A habitat assessment of Iron Brook and the 0utfall 19 drainage ditch area has not been performed to date.

Thus the primary impact to the SAA from the settling basins is associated with Solvay Waste, which may manifest as calcium precipitate in the substrate of the Ninemile Creek bed or banks from groundwater/leachate discharges, or in physical form as a whitish gray material deposited in the floodplain from run-off from the settling basins.

4.0 Phase 1 Scope of Work

The proposed Phase 1 SOW consists of a qualitative assessment of the natural resources in the immediate vicinity of the SB 9-15 site and physical characterization of Ninemile Creek. The objectives of the assessment are to evaluate potential impacts caused by Solvay Waste on these resources and define the areal extent and scope of potential future investigations. Tasks associated with the proposed Phase 1 SOW are described in this section.

4.1. Site Reconnaissance

Site reconnaissance was conducted by Honeywell and NYSDEC on June 9, 2009 to further define the boundaries of the SAA study area. Honeywell and NYSDEC representatives visually evaluated the portion of Ninemile Creek, Iron Brook, Outfall 019 drainage ditch, and portions of the wetlands and floodplain included in the SAA. The goals of this reconnaissance were to: 1) establish a general agreement on the type of assessments to be conducted on Ninemile Creek, and 2) agree on the criteria for establishing the spatial boundaries of the wetlands and floodplain assessments.

A second site reconnaissance was conducted on Ninemile Creek by Honeywell and NYSDEC on July 22, 2009 to establish agreement on the number and locations of stream reaches to be assessed, and parameters to be measured. A second wetlands/floodplain reconnaissance is to be conducted.

Following site reconnaissance, Honeywell team biologists will perform the tasks necessary to complete the Phase 1 SOW, as further described in the following sections.

4.2 Ninemile Creek

Physical characterization

Ninemile Creek will be characterized following the protocol detailed in the *United States Department of Agriculture National Water and Climate Center Technical Note 99-1 Stream Visual Assessment Protocol* (USDA 1998). The stream visual assessment protocol worksheet consists of two principal sections: reach identification and assessment (Appendix 3). The identification section records basic information about the reach, such as name, location, and land uses. Space is provided for a diagram of the reach, which may be useful to locate the reach or illustrate problem areas. The assessment section is used to record the scores for up to 15 assessment elements. Of the 15 elements, the protocol describes 10 basic elements of the stream physical characterization that may be scored during each assessment. These elements are channel condition, hydrologic alteration, riparian zone, bank stability, water appearance, nutrient enrichment, barriers to fish movement, instream fish cover, pools, and insect/invertebrate habitat. The remaining 5 elements may be scored if applicable. These elements are canopy cover, manure presence, salinity, riffle embeddedness, and benthic macroinvertebrates observed.

To describe the stream's benthic macroinvertebrate community, macroinvertebrates are collected and categorized into 1 of 3 groups: Group I (intolerant), Group II (facultative), or Group III (tolerant). Communities dominated by Group I species with good diversity are assigned a score of 15, Group II a score of 6, Group III a score of 2, and a community with a very reduced number of species or near absence of all macroinvertebrates is assigned a score of -3.

The overall reach assessment score is determined by adding the values of the elements assessed, and dividing by the number of elements assessed. This value provides a numerical evaluation of the environmental condition of the stream reach, and can be used as a general statement about the condition of the stream (poor, fair, good, or excellent) or as an indicator of trends in condition over time.

In addition to characteristics outlined in the USDA (1998) protocol, dissolved oxygen, conductivity, temperature, turbidity, and pH will be measured and recorded. Stream flow data from the USGS gauge station in Lakeland will be used to determine stream flow.

The protocol calls for assessment of 1 representative reach (12 times the active channel width), but recommends assessment of additional reaches if conditions change dramatically along the stream. For the purpose of this SOW, assessments will be conducted at 1 reference reach just below Amboy Dam and at 6 stream reaches selected to evaluate potential effects of Solvay Waste on the SAA portion of Ninemile Creek (Figure 5). Using Google Earth, we estimated the SAA portion of Ninemile Creek to have an average active channel width of approximately 40 feet, resulting in a calculated reach length of 480 feet. At each reach, samples will be collected, starting at the downstream end of the reach, using a D-frame kick net at locations alternating from the left, center, and right sides of the reach until a total of 8-12 samples are collected and composited into one sample representing the entire reach. Samples will be preserved in 95% ethanol and transported back to the lab for species identification. Random subsamples of macroinvertebrates will be removed from the sample until 100 individuals are identified.

It was agreed that stream visual assessments of the Outfall 019 drainage ditch, Iron Brook, and the Interbed area do not need to be conducted due to their lack of biological significance.

It is anticipated that the assessment data collection will be performed before October 2009.

4.3 Other Waterbodies

Surface water will be evaluated in Iron Brook, the Outfall 019 Drainage Ditch, the Interbed area, and the gravel pit located west of Settling Basin 13 (Figure 1). Dissolved oxygen, conductivity, temperature, turbidity, and pH will be measured and recorded.

4.4 Wetlands and Floodplain

Site Reconnaissance

Soils of the wetlands and floodplain adjacent to Ninemile Creek will be evaluated for the presence of Solvay Waste. CAM 21 and CAM 26 are New York State-regulated wetlands located west of the SB 9-15 site. State-regulated boundaries are shown on Figure 1. These wetlands total approximately 355 acres. For the purposes of this SOW, professional judgment will be used to define the areal extent of the investigation of these areas based on conditions observed during the reconnaissance of the SAA performed with NYSDEC.

Soils within the 100-year floodplain adjacent to Ninemile Creek will be evaluated for the presence of Solvay Waste. The 100-year flood boundaries adjacent to Ninemile Creek, as demarcated by the Federal Emergency Management Agency's (FEMA) *Flood Insurance Study* (1981), are proposed to define the areal extent of the floodplain areas assessed for this effort (Figure 1). Note that the respective habitat boundaries and physical limits of this SOW will be further defined as part of the site reconnaissance performed with NYSDEC.

Visual Assessment

The wetlands and floodplain will be traversed by foot, beginning in areas nearest to the settling basins, and progressing further from the settling basins until no evidence of Solvay Waste is encountered. During the reconnaissance, a qualitative assessment of the soil will be conducted at multiple locations by advancement of a borehole with a hand-held Dutch auger to a maximum depth of 18 inches (or refusal). Substrate color, texture, and structure, as well as the presence and location (within the horizon) of Solvay Waste will be recorded. Areas exhibiting potential impacts from Solvay Waste will be recorded. Such areas include, but may not be limited to, soils resembling a white to gray chalky or paste-like matrix and/or areas sparsely vegetated or devoid of vegetation. A conductivity meter will be employed to assist in defining these areas as containing Solvay Waste.

5.0 Schedule and Reporting

The assessments described above are best performed between July and September and would be completed in approximately three weeks. The results will be provided in a report that evaluates the potential impacts to these resources from SB 9-15. In addition, the report will define the areal extent of observed impacts, and will include recommendations for possible Phase 2 investigations. Phase 2 activities might include:

- Quantitative assessment of the benthic community.
- Fish habitat assessment.
- Sampling of surface waters and sediments and analysis for chemical parameters of interest.
- Wetland (and if appropriate, upland) function and value assessment.

The Phase 2 results will be evaluated to assess the feasibility and scope of potential SAA abatement efforts, and shall be used in establishing baseline conditions for use in monitoring long-term performance of the integrated SB 9-15 closure.

6.0 References

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FIGURE 1

CAM-21

BEAVER MEADOW BROOK

INTERBED

SYW-10

SETTLING BASIN 11

SETTLING BASIN 9 & 10

HUDSON FARM PROPERTY

NINEMILE CREEK

CAM-21

OU1 REMEDIATION BOUNDARY

SYW-18

OUTFALL 019

SETTLING BASIN 13

SETTLING BASIN 12

GRAVEL PIT

NINEMILE CREEK

OUTFALL 019 DRAINAGE DITCH

AMBOY DAM

SYW-14

SETTLING BASIN 14

RETENTION PONDS

CAM-26

SETTLING BASIN 15

IRON BROOK

GEDDES BROOK

FORMER ERIE CANAL

CAM-25

SYW-15

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LEGEND

- OUTFALL
- FORMER ERIE CANAL
- NYS FRESHWATER WETLAND
- 100-YR FEMA FLOOD ZONE

HONEYWELL
SETTLING BASINS 9-15
GEDDES AND CAMILLUS, NEW YORK

0 1,000 2,000 4,000
Feet

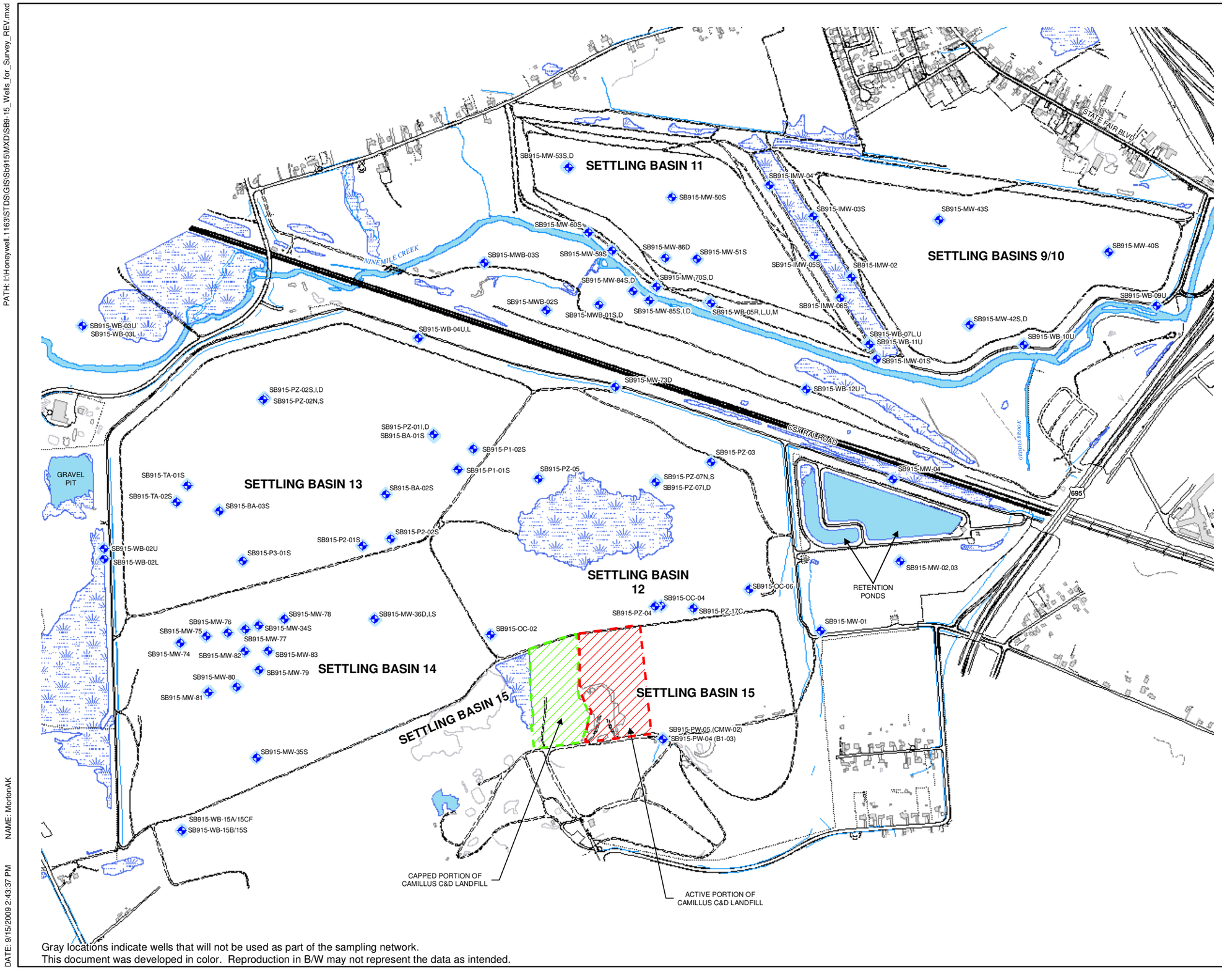
N

SETTLING BASINS 9-15 AND SURROUNDING AREAS

SEPTEMBER 2009
1163.44146

O'BRIEN & GERE

FIGURE 2



Gray locations indicate wells that will not be used as part of the sampling network.
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N

LEGEND

EXISTING MONITORING WELL

HONEYWELL
SETTLING BASINS 9-15
GEDDES AND CAMILLUS, NY

MONITORING WELL LOCATIONS

0 450 900 1,800
Feet

SEPTEMBER 2009
1163.44146

O'BRIEN & GERE

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FIGURE 3

ONONDA LAKE

BEAVER MEADOW BROOK

INTERBED

SED-30
SED-31
IMW-04S
SED-29
SED-32
IMW-03S
SED-33
SED-28
IMW-05S
SED-27
SED-34
IMW-02S
IMW-06S
SED-26
SED-35
SED-36
SED-25
IMW-01S

SETTLING BASIN 11

SETTLING BASIN 9 & 10

NINEMILE CREEK

HUDSON FARM PROPERTY

OU1 REMEDIATION BOUNDARY

SETTLING BASIN 13

SW-GP

GRAVEL PIT

SETTLING BASIN 12

OUTFALL 019 DRAINAGE DITCH

NINEMILE CREEK

AMBOY DAM

SETTLING BASIN 14

RETENTION PONDS

IRON BROOK

SETTLING BASIN 15

GEDDES BROOK

NM1 LOCATED AT THREE AQUADUCT CREEK

FORMER ERIE CANAL

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LEGEND

- GROUND WATER
- SURFACE WATER
- SEDIMENT
- FORMER ERIE CANAL

HONEYWELL
SETTLING BASINS 9-15
GEDDES AND CAMILLUS, NEW YORK

0 625 1,250 2,500
Feet

N

O'BRIEN & GERE
INTERBED AND GRAVEL PIT SAMPLING LOCATIONS

SEPTEMBER 2009
1163.44146

O'BRIEN & GERE

PATH: I:\Honeywell.1163\STDS\GIS\Sb9915\MXD\NMC_Tox_Testing_Locs_REV.mxd

NAME: MortonAK

DATE: 9/10/2009 4:17:26 PM

FIGURE 4



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LEGEND

- EXPONENT (2001)
- CDR (1991)
- FORMER ERIE CANAL

HONEYWELL
SETTLING BASINS 9-15
GEDDES AND CAMILLUS, NEW YORK

0 1,000 2,000 4,000
Feet

N

HISTORICAL NINEMILE CREEK TOXICITY TESTING LOCATIONS (CDR 1991, EXPONENT 2001)

SEPTEMBER 2009
1163.44146

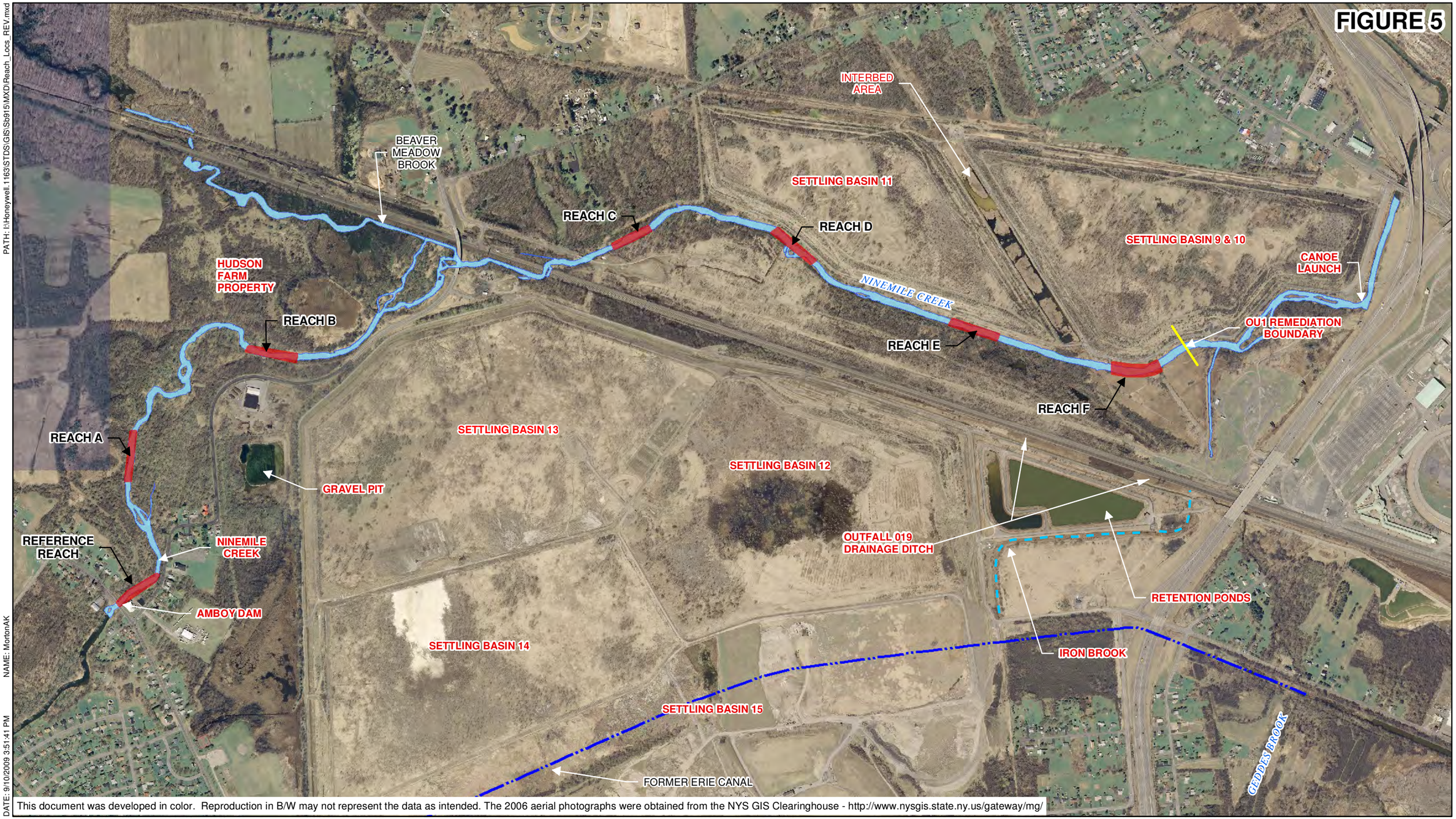
O'BRIEN & GERE

PATH: I:\Honeywell.1163\STDS\GIS\Sb9\15\MXD\Reach_Locs_REV.mxd

NAME: MortonAK

DATE: 9/10/2009 3:51:41 PM

FIGURE 5



This document was developed in color. Reproduction in B/W may not represent the data as intended. The 2006 aerial photographs were obtained from the NYS GIS Clearinghouse - http://www.nysgis.state.ny.us/gateway/mg/

LEGEND

- FORMER ERIE CANAL
- APPROXIMATE STREAM REACH ASSESSMENT LOCATION

HONEYWELL
SETTLING BASINS 9-15
GEDDES AND CAMILLUS, NEW YORK

0 450 900 1,800
Feet

N

NINEMILE CREEK STREAM ASSESSMENT REACH LOCATIONS

SEPTEMBER 2009
1163.44146

O'BRIEN & GERE

APPENDICES

APPENDIX 1

Tables 1-1 through 1-6
Groundwater, Surface Water and Sediment Data
Interbed Area and Gravel Pit

Table 1-1[1]
Honeywell
Settling Basins 9-15
Ground Water - Interbed Area
Inorganic Compound and Other Data

	New York State	Location	SB915-IMW-01S		SB915-IMW-02S		SB915-IMW-03S		SB915-IMW-04S		SB915-IMW-05S		SB915-IMW-06S	
	Class GA	Sample Date	5/4/2006	9/8/2006	5/3/2006	9/7/2006	5/3/2006	9/11/2006	5/3/2006	9/11/2006	5/4/2006	9/11/2006	5/4/2006	9/11/2006
Parameter Name	Standards	Units												
ALKALINITY, CARBONATE (AS CACO3)	NC	mg/L	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U	2.00U	83	96	49	31.6
BICARBONATE ALKALINITY AS CACO3	NC	mg/L	134	141	119	122	145	396	62.5	141	2.00U	2.00U	2.00U	37.6
BROMIDE	NC	mg/L	4.55	4.59	12.6	9.44	7.97	15.2	2.75	3.38	5.42	5.57	4.54	4.82
CALCIUM	NC	mg/L	3240	4790	11230	9500	7390	15360	1600	2670	4340	4780	3450	4470
CHLORIDE	250	mg/L	NA	[11500]	NA	[24600]	NA	[16600]	NA	[6410]	NA	[12600]	NA	[12100]
MAGNESIUM	35(G)	mg/L	[89.9]	[133]	[359]	[114]	[83.5]	[226]	6.28	11.2	1.61	1U	29.1	[328]
POTASSIUM	NC	mg/L	54.7	73	108	95.3	156	278	68	116	163	213	130	115
SODIUM	20(S)	mg/L	[1930]	[2820]	[6970]	[6470]	[4700]	[9950]	[791]	[1360]	[2540]	[2780]	[1720]	[2730]
SULFATE	250	mg/L	91.6	68.4	18.4	14.8	60.8	2.00U	50.5	13.1	12.6	13.5	60.8	244
TOTAL ALKALINITY	NC	mg/L	134	141	119	122	145	396	62.5	141	156	195	488	69.2

Notes:

1 - modified from Table 3 of O'Brien & Gere (2009) to include Interbed area data only.

S - Standard Value, G - guidance value, NA - parameter not analyzed, U - denotes result was below the detection limit.

NC - No applicable criteria, [ ] - Exceeds New York State Class GA Standards.

NYS Class GA Ground Water Criteria obtained from NYSDEC Ambient Water Quality Standard and Guidance Values (June 1998, April 2000 Addendum).

Data tables contain unvalidated data.

Table 1-2[1]
Honeywell
Settling Basins 9-15
Sediment - Interbed Area
Inorganic Compound and Other Data

	Location	SED-25	SED-26	SED-27	SED-28	SED-29	SED-30	SED-31	SED-32	SED-33	SED-34	SED-35	SED-36
	Sample Date	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/12/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005	9/14/2005
	Sample Depth	0-1 FT	0-1 FT	0-1 FT	0-1 FT	0-1 FT	0-1 FT	0-1 FT	0-1 FT	0-1 FT	0-1 FT	0-1 FT	0-1 FT
Parameter Name	Units												
ALUMINUM	mg/kg	21400	12700	8830	6030	3210	4500	7370	8060	4570	17500	4750	8720
ANTIMONY	mg/kg	15.3UN	10.7UN	14.5UN	14.5UN	10.5UN	11.3UN	11.1U	12.8U	12.1U	10.5U	19.7U	15.4U
ARSENIC	mg/kg	13.3	12.8	12.5	11.1	4.3	7	6.7	4.5	3.8	10.4	6.1	7.6
BARIUM	mg/kg	132	107	185	120	99.7	85.8	72.7	70.8	110	130	99.7	95.4
BERYLLIUM	mg/kg	1.3U	0.89U	1.2U	1.2U	0.88U	0.94U	0.92U	1.1U	1.0U	0.88U	1.6U	1.3U
CADMIUM	mg/kg	1.3U	0.89U	1.2U	1.2U	0.88U	0.94U	0.92U	1.1U	1.0U	0.88U	1.6U	1.3U
CALCIUM	mg/kg	82200	205000	329000	330000	349000	272000	239000	190000	339000	142000	296000	226000
CHROMIUM	mg/kg	31.4	15.1	15.6	9.6	5.9	7.5	10.3	13.2	6.7	24.9	6.9	14.3
COBALT	mg/kg	15.7	9.5	12.1U	12.1U	8.8U	9.4U	9.2U	10.7U	10.1U	11.4	16.4U	12.8U
COPPER	mg/kg	36.4	21.1	22.3	11.7	7.1	11.8	11.2	11.8	7.3	24	11.5	18.2
IRON	mg/kg	37900	18100	24100	10800	6960	11800	11600	13300	9820	28200	18200	17900
LEAD	mg/kg	18.9	24.2	23.2	18.9	6.9	5.5	12.8	9.3	8.5	14.3	8.1	32.9
MAGNESIUM	mg/kg	16500	27900	6330	9390	8520	7750	11800	7160	4040	13100	12500	8450
MANGANESE	mg/kg	924	12000	1740	1320	1070	668	607	620	460	686	2190	891
MERCURY	mg/kg	0.08	0.13	0.21	0.11	0.06U	0.06U	0.13	0.07	0.06U	0.05	0.11U	0.1
NICKEL	mg/kg	36	21.4	17	11.2	7.0U	8.7	10.8	15.2	8.1U	24.6	13.1U	15.4
POTASSIUM	mg/kg	4830	1750	1380	805	830	1240	1490	2020	1060	4000	1240	2150
SELENIUM	mg/kg	2.5U	13	2.4U	2.4U	1.8U	1.9U	1.8U	2.1U	2.0U	1.8U	4.3	2.6U
SILVER	mg/kg	2.5U	1.8U	2.4U	2.4U	1.8U	1.9U	1.8U	2.1U	2.0U	1.8U	3.3U	2.6U
SODIUM	mg/kg	4220	3990	6090	8710	2770	3250	2660	3310	4640	2540	6330	6440
THALLIUM	mg/kg	5.1U	35.6U	4.8U	4.8U	3.5U	3.8U	3.7U	4.3U	4.0U	3.5U	6.6U	5.1U
VANADIUM	mg/kg	47.9	33	27.6	17.4	8.8U	11.9	17.8	17.3	11.6	38.1	16.4U	22.2
ZINC	mg/kg	82	41.8	53.5	36	24.4	33.6	34.5	45.2	29.4	60	33.7	54.5
BROMIDE	mg/kg	26.0U	18.3U	138	149	90.9	19.3U	19.0U	21.3U	20.4U	17.5U	33.8U	25.9U
CARB. ALK.	mg/kg	519	1280	1580	593	1400	387	418	426U	409U	351U	1010	518U
CAT.-EXCH. CAP.	MEQ Na	2140	828	1890	2110	1000	967	5870	7080	4420	6720	6250	7150
CHLORIDE	mg/kg	16100	13200	24300	29400	9050	11200	8840	12400	14100	9350	21800	23000
NITRATE	mg/kg	13.0U	9.17U	12.3U	12.3U	8.77U	9.67U	9.51U	10.7U	10.2U	8.77U	16.9U	13.0U
pH	S.U.	6.89	9.12	8.88	8.72	10.4	7.14	9.58	7.54	7.66	7.09	10.2	7.39
PHOSPHORUS	mg/kg	732	284	431	405	354	348	228	497	292	421	382	472
SULFATE	mg/kg	200	36.7U	645	395	75.6	40.2	639	42.6U	51.1	55.1	166	62.2
TOTAL ALKALINITY	mg/kg	3060	2110	2460	1020	2460	2710	2300	2770	2330	2630	5100	7950
TOC	mg/kg	17700	27000	39500	21900	46000	11700	16800	13300	19800	12500	43400	23400

NOTES:

1 - modified from Table 3A and 3B of O'Brien & Gere (2009) to include Interbed area data only.

U - analyte not detected; J - estimated value; D - sample diluted due to initial exceedance of calibration range; E - (inorganics only) estimated value due to exceeding the serial dilution

N - tentatively identified analyte; * - duplicate analysis not within control limits; B - analyte detected in the associated blank sample; NA - parameter not analyzed

Table 1-3[1]
Honeywell
Settling Basins 9-15
Surface Water - Interbed Area and Gravel Pit
Method 8260B Volatile Organic Compound Data

Parameter Name	Field Sample ID Location Sample Date Units	SB915-2001-03 SB915-SED-25 9/12/2005	SB915-2001-02 SB915-SED-27 9/12/2005	SB915-2001-01 SB915-SED-29 9/12/2005	SB915-2006-01 SB915-SED-31 9/14/2005	SB915-2006-02 SB915-SED-33 9/14/2005	SB915-2006-03 SB915-SED-35 9/14/2005	SB915-3004-06 SB915-SW-GP 7/15/2005	SB915-3019-02 SB915-SW-GP 10/4/2005	SB915-3036-06 SB915-SW-GP 2/8/2006
1,1,1-TRICHLOROETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,2,2-TETRACHLOROETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,2-TRICHLOROETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1,2-TRICHLOROTRIFLUOROETHAN	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1-DICHLOROETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,1-DICHLOROETHENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2,4-TRICHLOROBENZENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2-DIBROMO-3-CHLOROPROPANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2-DIBROMOETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2-DICHLOROBENZENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2-DICHLOROETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,2-DICHLOROPROPANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,3-DICHLOROBENZENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
1,4-DICHLOROBENZENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
2-BUTANONE	µg/L	10U	10U	10U	10U	10U	10U	10U	10U	10U
2-HEXANONE	µg/L	10U	10U	10U	10U	10U	10U	10U	10U	10U
4-METHYL-2-PENTANONE	µg/L	10U	10U	10U	10U	10U	10U	10U	10U	10U
ACETONE	µg/L	20U	20U	3.0J	20U	20U	20U	7.8J	20U	20U
BENZENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMODICHLOROMETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMOFORM	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
BROMOMETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CARBON DISULFIDE	µg/L	10U	10U	10U	10U	10U	10U	0.82J	10U	0.65JB
CARBON TETRACHLORIDE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CHLOROBENZENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CHLORODIBROMOMETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CHLOROETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CHLOROFORM	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CHLOROMETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CIS-1,2-DICHLOROETHENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CIS-1,3-DICHLOROPROPENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CYCLOHEXANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
DICHLORODIFLUOROMETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ETHYLBENZENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
ISOPROPYLBENZENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
METHYL ACETATE	µg/L	10U	10U	10U	10U	10U	10U	10U	10U	10U
METHYL TERT-BUTYL ETHER	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
METHYLCYCLOHEXANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
METHYLENE CHLORIDE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
O-XYLENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
STYRENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U

NOTES:

1 - modified from Table 4 of O'Brien & Gere (2009) to include Interbed area and gravel pit data only.

U - analyte not detected; J - estimated value; D - sample diluted due to initial exceedance of calibration range; E - (inorganics only) estimated value due to exceeding the serial dilution

N - tentatively identified analyte; * - duplicate analysis not within control limits; B - analyte detected in the associated blank sample; NA - parameter not analyzed

Table 1-3[1]
Honeywell
Settling Basins 9-15
Surface Water - Interbed Area and Gravel Pit
Method 8260B Volatile Organic Compound Data

Parameter Name	Field Sample ID Location Sample Date Units	SB915-2001-03 SB915-SED-25 9/12/2005	SB915-2001-02 SB915-SED-27 9/12/2005	SB915-2001-01 SB915-SED-29 9/12/2005	SB915-2006-01 SB915-SED-31 9/14/2005	SB915-2006-02 SB915-SED-33 9/14/2005	SB915-2006-03 SB915-SED-35 9/14/2005	SB915-3004-06 SB915-SW-GP 7/15/2005	SB915-3019-02 SB915-SW-GP 10/4/2005	SB915-3036-06 SB915-SW-GP 2/8/2006
TETRACHLOROETHENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TOLUENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	0.35J
TRANS-1,2-DICHLOROETHENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRANS-1,3-DICHLOROPROPENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROETHENE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
TRICHLOROFLUOROMETHANE	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
VINYL CHLORIDE	µg/L	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U	2.0U
XYLENES, M & P	µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U

NOTES:

1 - modified from Table 4 of O'Brien & Gere (2009) to include Interbed area and gravel pit data only.

U - analyte not detected; J - estimated value; D - sample diluted due to initial exceedance of calibration range; E - (inorganics only) estimated value due to exceeding the serial dilution

N - tentatively identified analyte; * - duplicate analysis not within control limits; B - analyte detected in the associated blank sample; NA - parameter not analyzed

Table 1-4[1]
Honeywell
Settling Basins 9-15
Surface Water - Interbed Area
Method 8270C Semivolatile Organic Compound Data

Parameter Name	Field Sample ID Location Sample Date Units	SB915-2001-03 SB915-SED-25 9/12/2005	SB915-2001-02 SB915-SED-27 9/12/2005	SB915-2001-01 SB915-SED-29 9/12/2005	SB915-2006-01 SB915-SED-31 9/14/2005	SB915-2006-02 SB915-SED-33 9/14/2005	SB915-2006-03 SB915-SED-35 9/14/2005
1,1'-BIPHENYL	µg/L	10U	10U	10U	10U	11U	10U
2,2'-OXYBIS(1-CHLOROPROPANE)	µg/L	10U	10U	10U	10U	11U	10U
2,4,5-TRICHLOROPHENOL	µg/L	10U	10U	10U	10U	11U	10U
2,4,6-TRICHLOROPHENOL	µg/L	10U	10U	10U	10U	11U	10U
2,4-DICHLOROPHENOL	µg/L	10U	10U	10U	10U	11U	10U
2,4-DIMETHYLPHENOL	µg/L	10U	10U	10U	10U	11U	10U
2,4-DINITROPHENOL	µg/L	50U	50U	50U	50U	53U	50U
2,4-DINITROTOLUENE	µg/L	10U	10U	10U	10U	11U	10U
2,6-DINITROTOLUENE	µg/L	10U	10U	10U	10U	11U	10U
2-CHLORONAPHTHALENE	µg/L	10U	10U	10U	10U	11U	10U
2-CHLOROPHENOL	µg/L	10U	10U	10U	10U	11U	10U
2-METHYLNAPHTHALENE	µg/L	10U	10U	10U	10U	11U	10U
2-METHYLPHENOL	µg/L	10U	10U	10U	10U	11U	10U
2-NITROANILINE	µg/L	50U	50U	50U	50U	53U	50U
2-NITROPHENOL	µg/L	10U	10U	10U	10U	11U	10U
3,3'-DICHLOROBENZIDINE	µg/L	10U	10U	10U	10U	11U	10U
3-NITROANILINE	µg/L	50U	50U	50U	50U	53U	50U
4,6-DINITRO-2-METHYLPHENOL	µg/L	50U	50U	50U	50U	53U	50U
4-BROMOPHENYL PHENYL ETHER	µg/L	10U	10U	10U	10U	11U	10U
4-CHLORO-3-METHYLPHENOL	µg/L	10U	10U	10U	10U	11U	10U
4-CHLOROANILINE	µg/L	10U	10U	10U	10U	11U	10U
4-CHLOROPHENYL PHENYL ETHER	µg/L	10U	10U	10U	10U	11U	10U
4-METHYLPHENOL	µg/L	10U	10U	10U	10U	11U	10U
4-NITROANILINE	µg/L	50U	50U	50U	50U	53U	50U
4-NITROPHENOL	µg/L	50U	50U	50U	50U	53U	50U
ACENAPHTHENE	µg/L	10U	10U	10U	10U	11U	10U
ACENAPHTHYLENE	µg/L	10U	10U	10U	10U	11U	10U
ACETOPHENONE	µg/L	10U	10U	10U	10U	11U	10U
ANTHRACENE	µg/L	10U	10U	10U	10U	11U	10U
ATRAZINE	µg/L	10U	10U	10U	10U	11U	10U
BENZALDEHYDE	µg/L	10U	10U	10U	10U	11U	10U
BENZO(A)ANTHRACENE	µg/L	10U	10U	10U	10U	11U	10U
BENZO(A)PYRENE	µg/L	10U	10U	10U	10U	11U	10U
BENZO(B)FLUORANTHENE	µg/L	10U	10U	10U	10U	11U	10U
BENZO(G,H,I)PERYLENE	µg/L	10U	10U	10U	10U	11U	10U
BENZO(K)FLUORANTHENE	µg/L	10U	10U	10U	10U	11U	10U
BIS(2-CHLOROETHOXY)METHANE	µg/L	10U	10U	10U	10U	11U	10U
BIS(2-CHLOROETHYL)ETHER	µg/L	10U	10U	10U	10U	11U	10U
BIS(2-ETHYLHEXYL)PHTHALATE	µg/L	10U	10U	10U	10U	11U	10U
BUTYLBENZYL PHTHALATE	µg/L	10U	10U	10U	10U	11U	10U
CAPROLACTAM	µg/L	10U	10U	10U	10U	11U	10U

NOTES:

1 - modified from Table 4 of O'Brien & Gere (2009) to include Interbed area and gravel pit data only.

U - analyte not detected; J - estimated value; D - sample diluted due to initial exceedance of calibration range; E - (inorganics only) estimated value due to exceeding the serial dilution

N - tentatively identified analyte; * - duplicate analysis not within control limits; B - analyte detected in the associated blank sample; NA - parameter not analyzed

Table 1-4[1]
Honeywell
Settling Basins 9-15
Surface Water - Interbed Area
Method 8270C Semivolatile Organic Compound Data

Parameter Name	Field Sample ID Location Sample Date Units	SB915-2001-03 SB915-SED-25 9/12/2005	SB915-2001-02 SB915-SED-27 9/12/2005	SB915-2001-01 SB915-SED-29 9/12/2005	SB915-2006-01 SB915-SED-31 9/14/2005	SB915-2006-02 SB915-SED-33 9/14/2005	SB915-2006-03 SB915-SED-35 9/14/2005
CARBAZOLE	µg/L	10U	10U	10U	10U	11U	10U
CHRYSENE	µg/L	10U	10U	10U	10U	11U	10U
DI-N-BUTYL PHTHALATE	µg/L	10U	10U	10U	10U	11U	10U
DI-N-OCTYL PHTHALATE	µg/L	10U	10U	10U	10U	11U	10U
DIBENZO(A,H)ANTHRACENE	µg/L	10U	10U	10U	10U	11U	10U
DIBENZOFURAN	µg/L	10U	10U	10U	10U	11U	10U
DIETHYL PHTHALATE	µg/L	10U	10U	10U	10U	11U	10U
DIMETHYL PHTHALATE	µg/L	10U	10U	10U	10U	11U	10U
FLUORANTHENE	µg/L	10U	10U	10U	10U	11U	10U
FLUORENE	µg/L	10U	10U	10U	10U	11U	10U
HEXACHLOROBENZENE	µg/L	10U	10U	10U	10U	11U	10U
HEXACHLOROBUTADIENE	µg/L	10U	10U	10U	10U	11U	10U
HEXACHLOROCYCLOPENTADIENE	µg/L	10U	10U	10U	10U	11U	10U
HEXACHLOROETHANE	µg/L	10U	10U	10U	10U	11U	10U
INDENO(1,2,3-CD)PYRENE	µg/L	10U	10U	10U	10U	11U	10U
ISOPHORONE	µg/L	10U	10U	10U	10U	11U	10U
N-NITROSO-DI-N-PROPYLAMINE	µg/L	10U	10U	10U	10U	11U	10U
N-NITROSODIPHENYLAMINE	µg/L	10U	10U	10U	10U	11U	10U
NAPHTHALENE	µg/L	10U	10U	10U	10U	11U	10U
NITROBENZENE	µg/L	10U	10U	10U	10U	11U	10U
PENTACHLOROPHENOL	µg/L	50U	50U	50U	50U	53U	50U
PHENANTHRENE	µg/L	10U	10U	10U	10U	11U	10U
PHENOL	µg/L	10U	10U	10U	10U	11U	10U
PYRENE	µg/L	10U	10U	10U	10U	11U	10U

NOTES:

1 - modified from Table 4 of O'Brien & Gere (2009) to include Interbed area and gravel pit data only.

U - analyte not detected; J - estimated value; D - sample diluted due to initial exceedance of calibration range; E - (inorganics only) estimated value due to exceeding the serial dilution

N - tentatively identified analyte; * - duplicate analysis not within control limits; B - analyte detected in the associated blank sample; NA - parameter not analyzed

Table 1-5[1]
Honeywell
Settling Basins 9-15
Surface Water - Interbed Area and Gravel Pit
Inorganic Compound Data

Parameter Name	Field Sample ID / Location / Sample Date	Units	SB915-2001-03 SB915-SED-25 9/12/2005	SB915-2001-02 SB915-SED-27 9/12/2005	SB915-2001-01 SB915-SED-29 9/12/2005	SB915-2006-01 SB915-SED-31 9/14/2005	SB915-2006-02 SB915-SED-33 9/14/2005	SB915-2006-03 SB915-SED-35 9/14/2005	SB915-3004-06 SB915-SW-GP 7/15/2005	SB915-3019-02 SB915-SW-GP 10/4/2005	SB915-3036-06 SB915-SW-GP 2/8/2006
ALUMINUM		µg/L	100U	100U	100U	1990	100U	123	192	200	452*N
ANTIMONY		µg/L	60.0U	60.0U	60.0U	60.0U	60.0U	60.0U	60.0U	60.0U	60.0U
ARSENIC		µg/L	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U
BARIUM		µg/L	824	888	965	974	974	908	148	77.5	37.4
BERYLLIUM		µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CADMIUM		µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
CALCIUM		µg/L	2650000	2710000	2800000	2600000	2960000	2830000	303000	161000	62700
CHROMIUM		µg/L	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U
COBALT		µg/L	50.0U	50.0U	50.0U	50.0U	50.0U	50.0U	50.0U	50.0U	50.0U
COPPER		µg/L	20.0U	20.0U	20.0U	20.0U	20.0U	20.0U	20.0U	20.0U	20.0U
IRON		µg/L	402	241	177	2580	259	560	372	261	933*N
LEAD		µg/L	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U	5.0U
MAGNESIUM		µg/L	15900	16300E	19100E	20400E	18000E	17000E	18000	20100	11600
MANGANESE		µg/L	244	125	122	384	122	276	222	88.8	378
MERCURY		ng/L	200U	200U	200U	200U	200U	200U	200U	200U	1.0U
NICKEL		µg/L	40.0U	40.0U	40.0U	40.0U	40.0U	40.0U	40.0U	40.0U	40.0U
POTASSIUM		µg/L	91400	96000	99500	95700	105000	96700	11800	7590	5520
SELENIUM		µg/L	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U
SILVER		µg/L	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U	10.0U
SODIUM		µg/L	1530000	1570000	1640000	1500000	1720000	1640000	314000	157000	27300
THALLIUM		µg/L	200U	200U	200U	200U	200U	200U	10.0U	20.0U	10.0U
VANADIUM		µg/L	50.0U	50.0U	50.0U	50.0U	50.0U	50.0U	50.0U	50.0U	50.0U
ZINC		µg/L	20.0U	20.0U	20.0U	20.0U	20.0U	20.0U	20.0U	21.4	1320

NOTES:

1 - modified from Table 4 of O'Brien & Gere (2009) to include Interbed area and gravel pit data only.

U - analyte not detected; J - estimated value; D - sample diluted due to initial exceedance of calibration range; E - (inorganics only) estimated value due to exceeding the serial dilution

N - tentatively identified analyte; * - duplicate analysis not within control limits; B - analyte detected in the associated blank sample; NA - parameter not analyzed

Table 1-6[1]
Honeywell
Settling Basins 9-15
Surface Water - Interbed Area and Gravel Pit
Other Data

Parameter Name	Field Sample ID / Location / Sample Date	Units	SB915-2001-03 SB915-SED-25 9/12/2005	SB915-2001-02 SB915-SED-27 9/12/2005	SB915-2001-01 SB915-SED-29 9/12/2005	SB915-2006-01 SB915-SED-31 9/14/2005	SB915-2006-02 SB915-SED-33 9/14/2005	SB915-2006-03 SB915-SED-35 9/14/2005	SB915-3004-06 SB915-SW-GP 7/15/2005	SB915-3019-02 SB915-SW-GP 10/4/2005	SB915-3036-06 SB915-SW-GP 2/8/2006
AMMONIA		mg/L	0.0500U	0.0500U	0.0500U	0.0500U	0.0500U	0.0500U	0.13	0.0500U	0.0500U
BICARBONATE ALK. AS CACO3		mg/L	NA	NA	NA	NA	NA	NA	46	NA	NA
BOD, FIVE DAY		mg/L	2.00U	2.00U	2.00U	2.68	2.00U	2.00U	4.95	2.76	10.3
BROMIDE		mg/L	NA	NA	NA	NA	NA	NA	0.100U	1.00U	1.00U
CHEMICAL OXYGEN DEMAND		mg/L	325	307	311	359	374	367	43.4	39.5	70.1
CHLORIDE		mg/L	5990	6220	6500	6730	7520	7510	91.7	385	79.6
NITRATE		mg/L	0.500U	0.500U	0.500U	0.500U	0.842	0.500U	NA	NA	NA
NITRITE		mg/L	0.0100U	0.0100U	0.0100U	0.0114	0.0100U	0.0100U	NA	NA	NA
PHOSPHORUS		mg/L	0.0500U	0.0500U	0.0500U	0.0849	0.0500U	0.0500U	0.0500U	0.0500U	0.288
SULFATE		mg/L	23.6	28.5	52.5	76.1	38	22.3	117	139	43.7
SULFIDE		mg/L	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U
TOTAL ALKALINITY		mg/L	62.8	64	72.4	87.5	70	68	46	71.4	101
TOTAL DISSOLVED SOLIDS		mg/L	11200	12000	13000	11200	13400	12800	2100	973	324
TOTAL ORGANIC CARBON		mg/L	3.39	3.44	3.8	5.63	3.4	3.19	NA	NA	NA
TP AS PO4 WATER		mg/L	0.0200U	0.0200U	0.0200U	0.0200U	0.0200U	0.0200U	0.0148	0.0100U	0.0400U
TSS		mg/L	6	2.4	1.6	71.3	2.5	6.6	112	12.4	530

NOTES:

1 - modified from Table 4 of O'Brien & Gere (2009) to include Interbed area and gravel pit data only.

U - analyte not detected; J - estimated value; D - sample diluted due to initial exceedance of calibration range; E - (inorganics only) estimated value due to exceeding the serial dilution

N - tentatively identified analyte; * - duplicate analysis not within control limits; B - analyte detected in the associated blank sample; NA - parameter not analyzed

APPENDIX 2

Tables 1-7 through 1-8
Sediment Toxicity Results

Table 1-7[2]
Summary of sediment toxicity results for Geddes Brook and Ninemile Creek in 1990

Station	Chironomids		Amphipods
	Survival (%)	Growth (mg, dry wt.)	Survival (%)
Laboratory Control	86	2.03	1.08
Reference Stations			
CDR-B	96	1.98	78
CDR-D	79	1.60	73
CDR-E	93	2.50	70
Potentially Impacted Stations			
CDR-F	71	2.73	75
CDR-G	71	2.33	93
CDR-I	14*	0.08*	8*
CDR-K	93	1.65	88
CDR-L	61	1.95	98
CDR-M	61	0.78*	65
CDR-O	68	0.65*	80
CDR-P	61	0.88*	98

Notes:
2 – modified from CDR (1991).
* – indicates significant difference from reference stations.
See Figure 4 for sample locations.

Table 1-8[3]
Summary of sediment toxicity results for Geddes Brook and Ninemile Creek in 1998

	Amphipod Test				Chironomid Test			
Station	Mean Survival[a] (percent)		Mean Biomass[a] (mg dry weight)		Mean Survival[a] (percent)		Mean Biomass[a] (mg dry weight)	
Ninemile Creek								
NM1	99	(3.5)	0.19	(0.020)	93	(10.4)	1.9	(0.28)
NM3	98	(4.6)	0.24	(0.037)	89	(15.5)	2.7	(0.20)
NM5	99	(3.5)	0.26	(0.034)	94	(7.4)	2.4	(0.25)
NM6	80	(14.1)	0.19	(0.046)	95	(7.6)	1.1*	(0.15)
NM9	65*	(14.1)	0.09*	(0.011)	49*	(25.9)	1.1	(0.49)
Geddes Brook								
GB3	93	(8.9)	0.24	(0.024)	91	(6.4)	2.2	(0.18)
GB7	93	(8.9)	0.18	(0.034)	98	(4.6)	1.1*	(0.15)
GB8	96	(5.2)	0.15*	(0.012)	84	(21.3)	0.6*	(0.08)

Notes:
3 – modified from Table 9-1 of Exponent (2001).
* – denotes a mean value that differed significantly ($P \leq 0.05$, experimentwise) from the mean value for the negative controls.
a – Values are means with standard deviations presented in parentheses. Each mean was based on eight replicate samples.
See Figure 4 for sample locations.

APPENDIX 3

Stream Visual Assessment Data Sheet

Stream Visual Assessment[1]

Settling Basins 9 through 15 Investigation
Surrounding Affected Area - Ninemile Creek

Owners name: Honeywell **Evaluator's name:** **Date:**

Stream name: Ninemile Creek **Waterbody ID number:** P 154-6 (6 NYCRR Part 895)

Reach Location and ID:

Ecoregion: Great Lakes **Local Drainage Area:** **Gradient/Slope:**

Applicable reference site:

Land use within drainage (%): Agricultural: **Industrial:** **Forest:** **Residential:** **Others:**

Weather conditions-today: **Past 2-5 days:**

Active channel width: **Dominant substrate (%): boulder** **gravel** **sand** **silt** **mud**

Bank heights: **Water depth:**

Site Diagram:

1) Source: *Stream Visual Assessment Protocol* (USDA 1998)

Assessment Scores

Channel condition		Pools	
Hydrologic alteration		Invertebrate habitat	
Riparian zone			
Bank stability			
Water appearance			
Nutrient enrichment			
Barriers to fish movement			
Instream fish cover			

Score only if applicable

Canopy cover	
Manure presence	
Salinity	
Riffle embeddedness	
Macroinvertebrates Observed (optional)	

Total Assessment Score

Overall Score

(Total assessment score divided by number scored)

<6.0	**Poor**
6.1-7.4	**Fair**
7.5-8.9	**Good**
>9.0	**Excellent**

Suspected causes of observed problems:

Recommendations:

Appendix J

Geochemical Stiff Diagrams (on CD at end of Appendices)

Table J - 1
Honeywell
Wastebeds 9-15 Closure Investigation
Summary of Key Groundwater Geochemistry Classification Values - July 2012

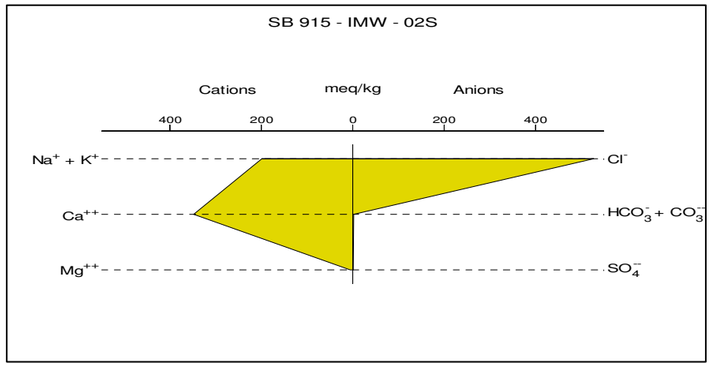
Location	Inorganic Classification	pH S.U.	TDS mg/L	Sodium mg/L	Calcium mg/L	Bromide mg/L	Chloride mg/L	Sodium to Calcium Ratio	Bromide to Chloride Ration	Calcium to Chloride Ratio
Solvay Waste Wells										
SB915-MW-36I	Leachate	13.71	52,000	7,200	12,000	ND	35,000	0.60	NA	0.34
SB915-MW-42I	Leachate	13.67	91,000	9,500	15,000	ND	37,000	0.63	NA	0.41
SB915-MW-53I	Leachate	11.14	120,000	13,000	19,000	19	56,000	0.68	0.00034	0.34
SB915-PZ-07D	Leachate	12.41	76,000	8,300	13,000	11	36,000	0.64	0.00031	0.36
SB915-PZ-07I	Leachate	12.98	64,000	7,100	12,000	11	33,000	0.59	0.00033	0.36
SB915-PZ-07S	Leachate	13.68	4,300	150	1,200	3	1,400	0.13	0.00214	0.86
SB915-MW-91S	Leachate	13.47	29,500	603	6,910	16	17,600	0.09	0.00093	0.39
SB915-MW-92S	Leachate	12.78	32,300	2,880	4,540	12	15,100	0.63	0.00079	0.30
Shallow Wells										
SB915-IMW-01S	Dilute Leachate	6.43	18,000	2,000	3,400	10	9,100	0.59	0.00110	0.37
SB915-IMW-02S	Dilute Leachate	6.12	42,000	4,600	7,100	29	19,000	0.65	0.00153	0.37
SB915-IMW-03S	Leachate	6.46	51,000	6,300	10,000	25	27,000	0.63	0.00093	0.37
SB915-IMW-04S	Dilute Leachate	7.62	9,100	610	1,400	5	3,200	0.44	0.00159	0.44
SB915-IMW-05S	Dilute Leachate	10.54	19,000	1,700	3,500	15	7,600	0.49	0.00197	0.46
SB915-IMW-06S	Dilute Leachate	13.65	17,000	1,400	3,100	12	7,100	0.45	0.00169	0.44
SB915-MW-03	Dilute Leachate	7.00	9,300	1,700	1,300	ND	5,300	1.31	NA	0.25
SB915-MW-04	Leachate	6.47	26,000	3,900	4,300	5	15,000	0.91	0.00033	0.29
SB915-MW-100S	Dilute Leachate	8.49	9,890	777	1,420	4	5,080	0.55	0.00085	0.28
SB915-MW-101S	Dilute Leachate	7.75	8,230	767	1,130	4	3,970	0.68	0.00091	0.28
SB915-MW-102S	Dilute Leachate	6.99	4,600	436	682	3	2,060	0.64	0.00141	0.33
SB915-MW-103S	Dilute Leachate	6.73	1,880	191	280	3	658	0.68	0.00502	0.43
SB915-MW-104S	Leachate	5.99	100,000	13,000	18,000	ND	26,000	0.72	NA	0.69
SB915-MW-106S	Dilute Leachate	6.40	2,400	80.0	150	ND	1,100	0.53	NA	0.14
SB915-MW-107S	Leachate	6.02	48,000	6,200	8,700	ND	29,000	0.71	NA	0.30
SB915-MW-109S	Leachate	13.12	31,000	3,600	5,900	22	16,000	0.61	0.00138	0.37
SB915-MW-110S	Dilute Leachate	6.68	7,200	580	1,100	1	2,800	0.53	0.00039	0.39
SB915-MW-111S	Dilute Leachate	6.59	19,000	2,300	3,700	16	11,000	0.62	0.00145	0.34
SB915-MW-112S	Dilute Leachate	11.45	8,500	720	1,700	2	4,300	0.42	0.00049	0.40
SB915-MW-113S	Dilute Leachate	12.06	39,000	2,300	4,100	ND	9,900	0.56	NA	0.41
SB915-MW-116S	Dilute Leachate	6.82	2,800	260	380	ND	1,000	0.68	NA	0.38
SB915-MW-117S	Dilute Leachate	6.85	10,000	1,500	1,600	ND	5,700	0.94	NA	0.28
SB915-MW-118S	Leachate	6.49	39,000	6,100	5,900	ND	23,000	1.03	NA	0.26
SB915-MW-59S	Dilute Leachate	6.52	15,000	2,000	2,700	ND	8,900	0.74	NA	0.30
SB915-MW-60S	Dilute Leachate	6.12	8,200	1,100	1,700	ND	5,000	0.65	NA	0.34
SB915-MW-70S	Dilute Leachate	7.39	14,000	1,500	2,500	3	7,500	0.60	0.00033	0.33
SB915-MW-87S	Fresh	8.49	548	47.7	132	1	87.5	0.36	0.00743	1.51
SB915-MW-88S	Dilute Leachate	7.38	2,290	194	402	1	916	0.48	0.00153	0.44
SB915-MW-89S	Fresh	7.40	1,560	127	253	1	458	0.50	0.00284	0.55
SB915-MW-90S	Dilute Leachate	7.39	3,970	454	617	3	2,130	0.74	0.00160	0.29
SB915-MW-91SN	Dilute Leachate	7.15	5,180	591	518	5	2,840	1.14	0.00165	0.18
SB915-MW-93S	Dilute Leachate	7.18	4,600	349	751	3	2,150	0.46	0.00130	0.35
SB915-MW-94S	Fresh	6.79	1,060	62.6	180	1	272	0.35	0.00184	0.66
SB915-MW-95S	Dilute Leachate	8.56	1,820	238	256	1	676	0.93	0.00207	0.38
SB915-MW-96S	Fresh	7.76	1,230	105	184	2	398	0.57	0.00553	0.46
SB915-MW-97S	Dilute Leachate	6.59	1,770	174	250	1	644	0.70	0.00217	0.39
SB915-MW-98S	Dilute Leachate	7.35	2,140	209	346	1	926	0.60	0.00151	0.37
SB915-MW-99S	Dilute Leachate	6.45	3,850	237	490	3	1,620	0.48	0.00160	0.30
SB915-WB-05U	Dilute Leachate	12.24	17,000	2,000	3,800	5	10,000	0.53	0.00048	0.38
SB915-WB-07U	Dilute Leachate	6.32	23,000	3,100	3,100	13	9,800	1.00	0.00133	0.32
SB915-WB-09U	Dilute Leachate	10.94	19,000	1,800	3,800	5	9,000	0.47	0.00054	0.42
SB915-WB-10U	Dilute Leachate	6.31	44,000	5,900	10,000	26	17,000	0.59	0.00153	0.59
Intermediate Wells										
SB915-MW-104I	Fresh	6.80	780	89.0	180	ND	180	0.49	NA	1.00
SB915-MW-106I	Leachate	6.55	28,000	3,100	3,800	ND	16,000	0.82	NA	0.24
SB915-MW-107I	Dilute Leachate	6.57	13,000	940	1,500	ND	4,400	0.63	NA	0.34
SB915-MW-109I	Leachate	6.83	22,000	2,400	4,100	18	11,000	0.59	0.00164	0.37
SB915-MW-111I	Leachate	6.41	67,000	8,900	13,000	44	38,000	0.68	0.00116	0.34

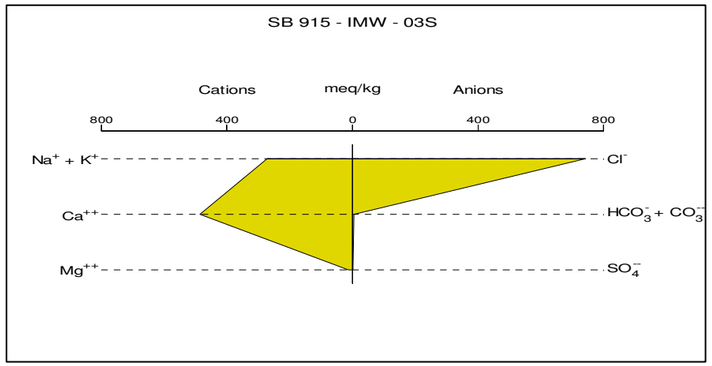
Table J - 1
Honeywell
Wastebeds 9-15 Closure Investigation
Summary of Key Groundwater Geochemistry Classification Values - July 2012

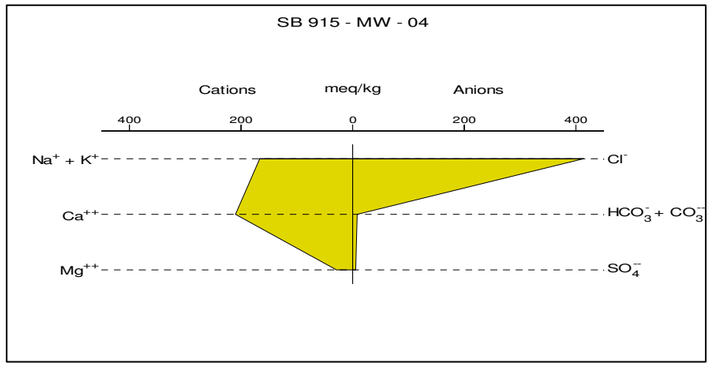
Location	Inorganic Classification	pH S.U.	TDS mg/L	Sodium mg/L	Calcium mg/L	Bromide mg/L	Chloride mg/L	Sodium to Calcium Ratio	Bromide to Chloride Ration	Calcium to Chloride Ratio
SB915-MW-112I	Leachate	5.97	62,000	8,100	13,000	ND	36,000	0.62	NA	0.36
SB915-MW-70D	Leachate	6.52	82,000	9,300	14,000	ND	45,000	0.66	NA	0.31
SB915-WB-05M	Leachate	7.09	26,000	3,600	4,000	ND	14,000	0.90	NA	0.29
SB915-MW-87I	Dilute Leachate	6.82	2,740	403	328	2	1,200	1.23	0.00175	0.27
SB915-MW-88I	Dilute Leachate	8.13	9,150	876	1,820	4	4,470	0.48	0.00083	0.41
SB915-MW-89I	Dilute Leachate	7.13	5,350	549	824	3	2,920	0.67	0.00106	0.28
SB915-MW-90I	Dilute Leachate	6.68	6,710	758	971	5	3,400	0.78	0.00147	0.29
SB915-MW-91I	Dilute Leachate	7.17	3,990	533	763	7	2,300	0.70	0.00300	0.33
SB915-MW-92I	Dilute Leachate	7.77	4,350	561	836	5	2,250	0.67	0.00204	0.37
SB915-MW-92D	Dilute Leachate	7.41	1,930	222	305	2	736	0.73	0.00272	0.41
SB915-MW-93I	Dilute Leachate	7.22	5,280	464	796	3	2,410	0.58	0.00129	0.33
Deep Wells										
SB915-MW-107D	Native Halite Brine	6.63	110,000	30,000	11,000	23	72,000	2.73	0.00032	0.15
SB915-MW-108D	Fresh	7.54	730	56.0	150	1	110	0.37	0.01182	1.36
SB915-MW-111D	Leachate	5.51	110,000	14,000	18,000	19	59,000	0.78	0.00032	0.31
SB915-MW-36D	Leachate	6.54	3,100	370	540	ND	1,500	0.69	NA	0.36
SB915-MW-53D	Dilute Leachate	7.51	710	150	240	ND	430	0.63	NA	0.56
SB915-MW-85D	Leachate	7.16	100,000	11,000	17,000	63	46,000	0.65	0.00137	0.37
SB915-WB-01L	Fresh	6.64	1,200	37.0	280	1	82.0	0.13	0.01463	3.41
SB915-WB-02L	Leachate	6.68	95,900	8,230	14,600	41	47,200	0.56	0.00086	0.31
SB915-WB-03L	Leachate	6.82	38,000	4,800	7,200	34	23,000	0.67	0.00148	0.31
SB915-WB-04L	Dilute Leachate	6.74	15,200	1,670	2,150	8	7,660	0.78	0.00099	0.28
SB915-WB-05L	Brine Leachate Mix	6.55	120,000	18,000	21,000	21	70,000	0.86	0.00030	0.30
SB915-WB-06	Brine Leachate Mix	5.92	110,000	13,000	19,000	ND	62,000	0.68	NA	0.31
SB915-WB-07L	Leachate	6.44	75,000	10,000	12,000	ND	39,000	0.83	NA	0.31
SB915-WB-09L	Brine Leachate Mix	5.76	96,000	11,000	15,000	ND	45,000	0.73	NA	0.33
SB915-WB-10L	Brine Leachate Mix	6.25	96,000	11,000	15,000	ND	41,000	0.73	NA	0.37
WB18-MW-14D	Leachate	6.14	51,000	5,900	10,000	ND	29,000	0.59	NA	0.34
SB915-MW-88D	Dilute Leachate	8.06	21,300	1,890	3,470	7	11,000	0.54	0.00063	0.32
SB915-MW-89D	Dilute Leachate	6.73	10,700	779	1,830	5	5,540	0.43	0.00092	0.33
SB915-MW-91D	Dilute Leachate	6.53	4,870	524	779	5	2,410	0.67	0.00212	0.32
SB915-MW-93D	Dilute Leachate	6.58	4,920	446	793	3	2,380	0.56	0.00126	0.33
Bedrock Wells										
SB915-MW-105BR	Fresh	7.43	520	76.0	80.0	ND	150	0.95	NA	0.53
SB915-MW-107BR	Native Halite Brine	6.23	150,000	59,000	2,400	ND	120,000	24.58	NA	0.02
SB915-MW-108BR	Fresh	7.15	3,500	100	560	7	140	0.18	0.04643	4.00
SB915-MW-111BR	Unknown Type 3	6.22	180,000	33,000	19,000	890	99,000	1.74	0.00899	0.19
SB915-MW-115BR	Native Halite Brine	6.94	39,000	11,000	3,700	15	26,000	2.97	0.00058	0.14
SB915-MW-118BR	Unknown Type 3	6.50	8,200	1,000	1,300	ND	3,600	0.77	NA	0.36
SB915-MW-87BR	Unknown Type 1	8.64	77,900	7,650	10,300	125	38,900	0.74	0.00321	0.26
SB915-MW-88BR	Unknown Type 1	6.95	68,900	6,440	7,830	87	31,500	0.82	0.00277	0.25
SB915-MW-89BR	Unknown Type 3	7.33	76,600	11,700	6,910	357	37,600	1.69	0.00949	0.18
SB915-MW-90BR	Unknown Type 3	7.27	44,700	4,390	4,260	209	22,700	1.03	0.00921	0.19
SB915-MW-91BR	Native Halite Brine	7.84	120,000	55,800	156	192	81,200	357.69	0.00236	0.002
SB915-MW-92BR	Native Halite Brine	6.85	49,300	8,260	479	218	25,600	17.24	0.00852	0.02
SB915-MW-93BR	Unknown Type 3	6.34	150,000	21,300	12,900	541	74,200	1.65	0.00729	0.17
SB915-WB-05R	Native Halite Brine	6.25	200,000	62,000	7,300	250	130,000	8.49	0.00192	0.06
SB915-WB-07R	Native Halite Brine	7.35	160,000	55,000	2,500	59	94,000	22.00	0.00063	0.03
WB18-MW-14BR	Unknown Type 2	6.46	160,000	45,000	3,300	61	110,000	13.64	0.00055	0.03

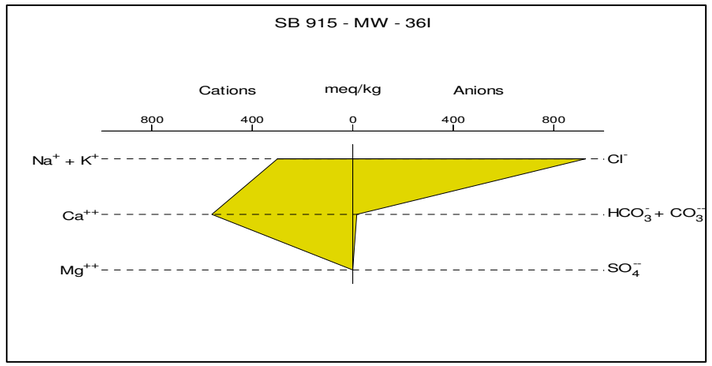
STIFF DIAGRAMS SOLVAY WASTE AND SHALLOW NATIVE WELLS – LEACHATE

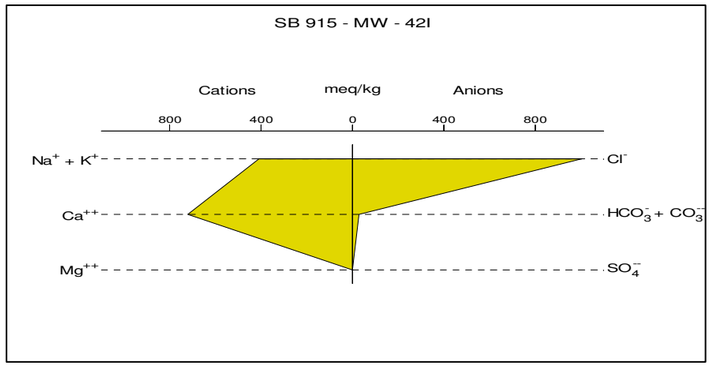
FIGURE J-1

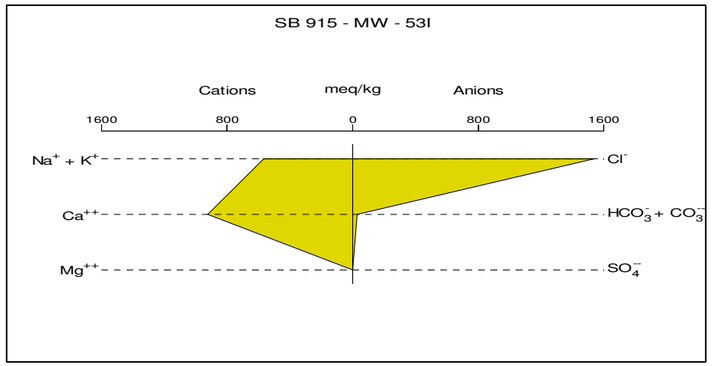


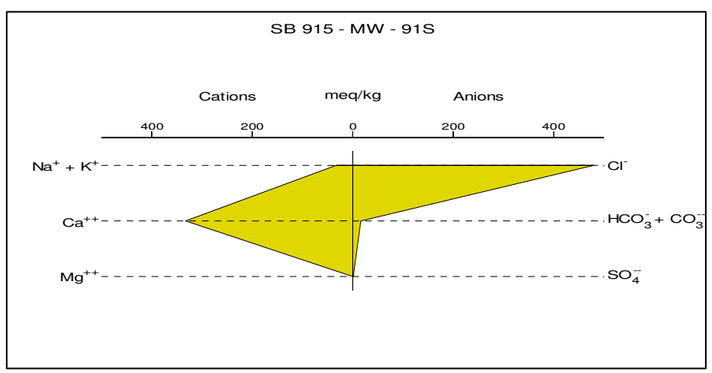


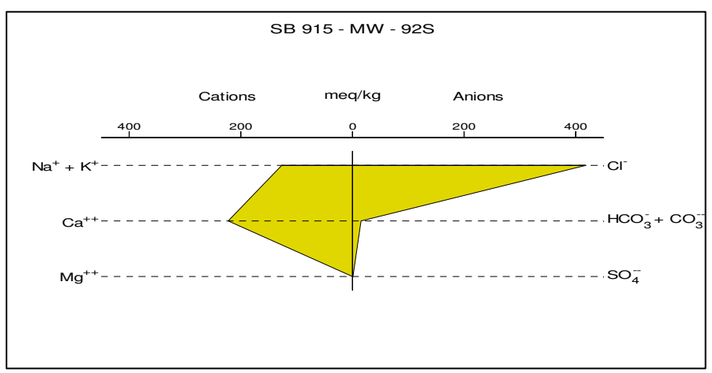


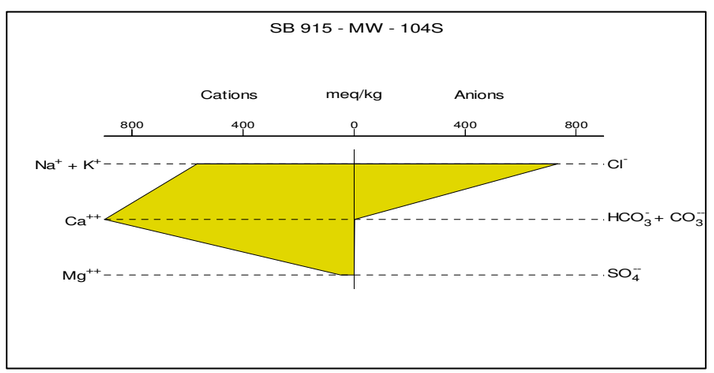


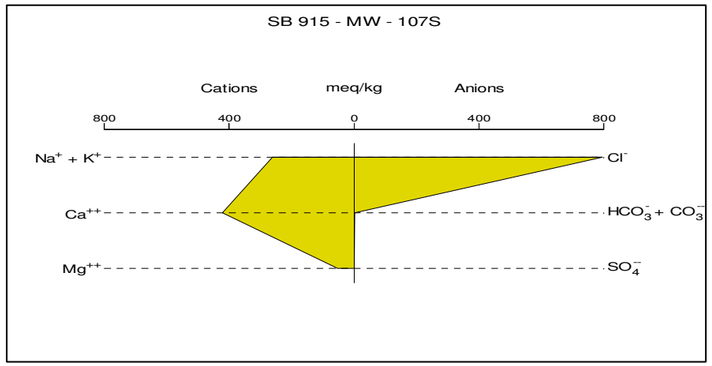








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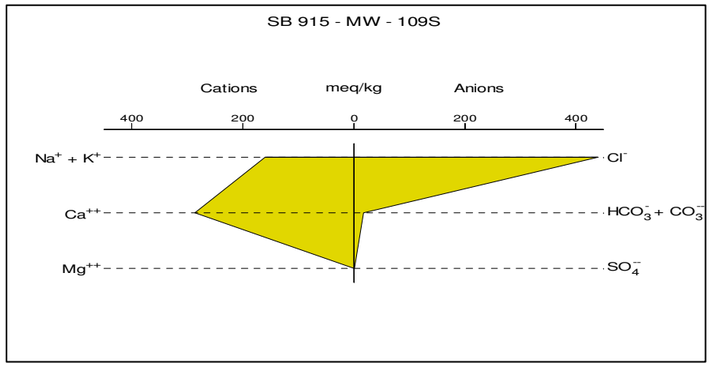
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--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Ca++
Mg++
Cl-
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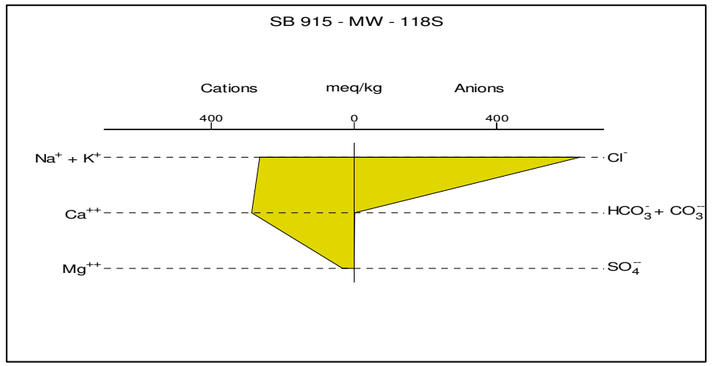
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Mg++
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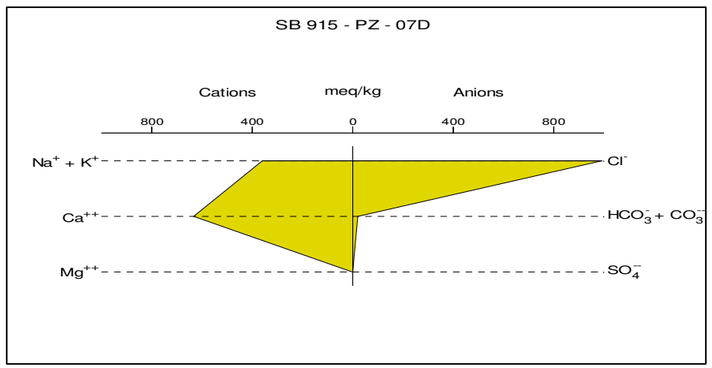
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Ca++
Mg++
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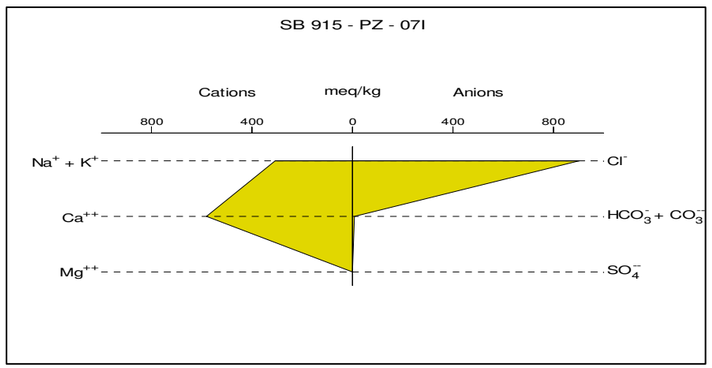
SO4--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Ca++
Mg++
Cl-
HCO3- + CO3--
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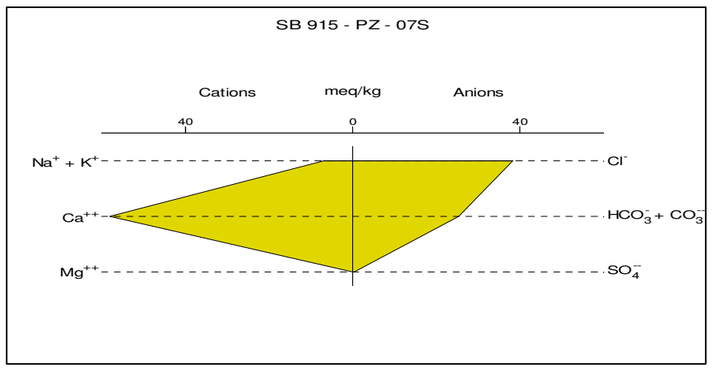
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Mg++
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HCO3- + CO3--
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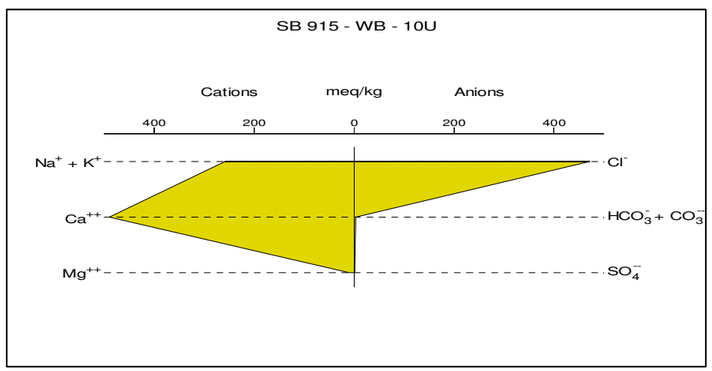
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Mg++
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HCO3- + CO3--
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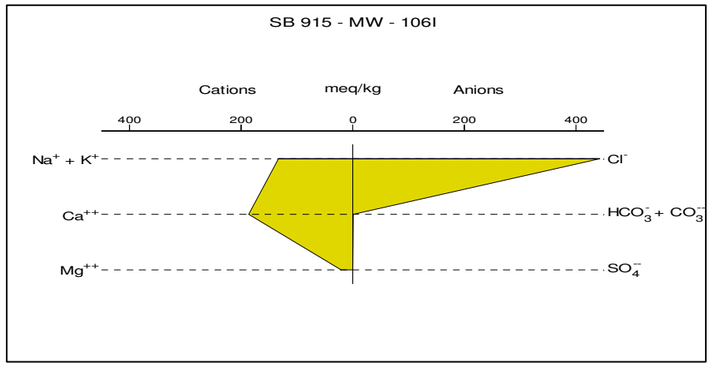
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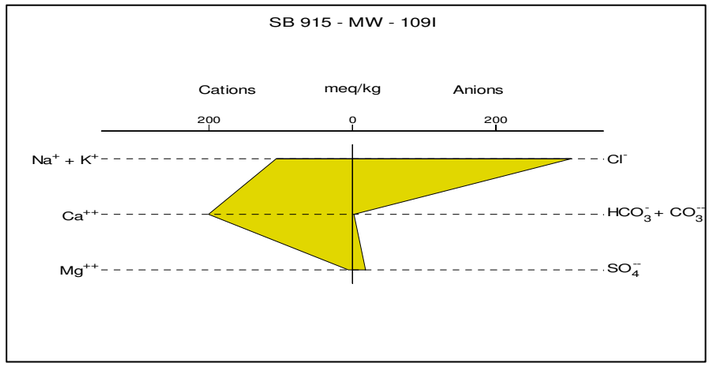
SO4--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Mg++
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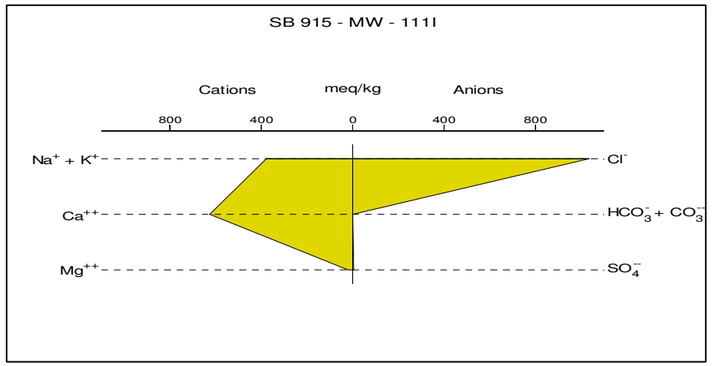
SO4--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meq/kg
Anions
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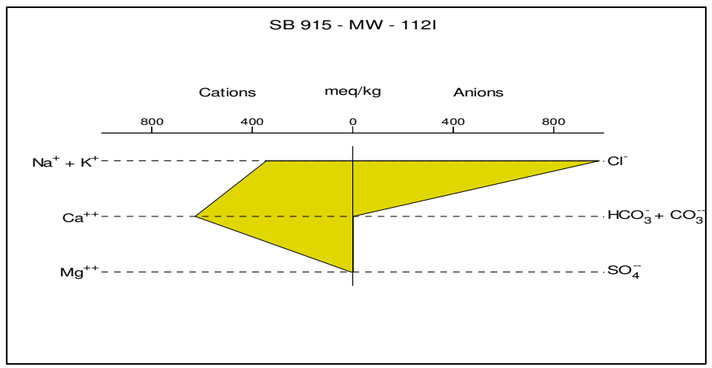
400
800
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--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meq/kg
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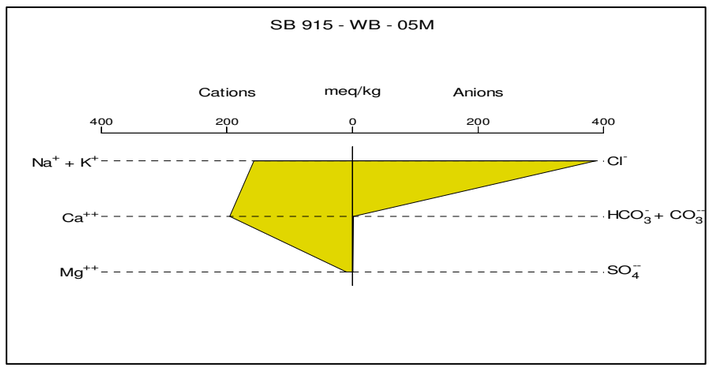
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--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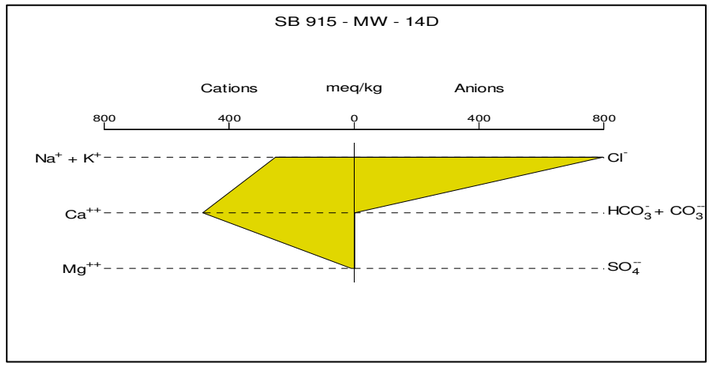
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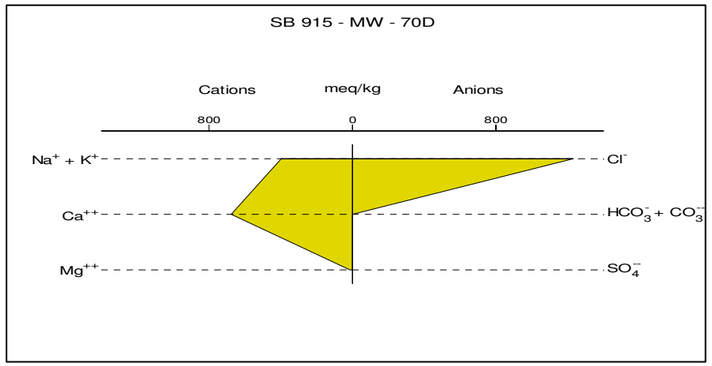
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Mg++
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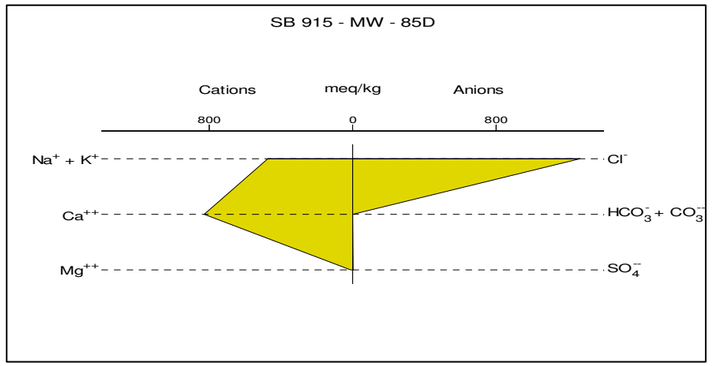
HCO3- + CO3--
SO4--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Cl-
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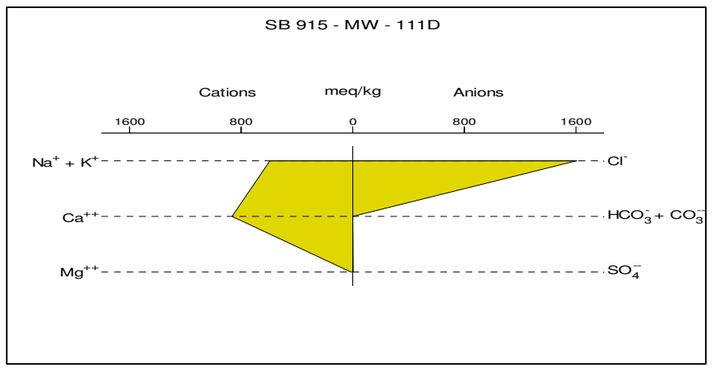
SO4--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meq/kg
Anions
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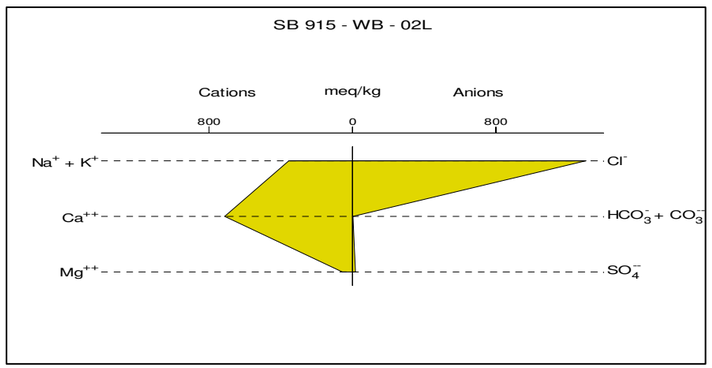
HCO3- + CO3--
SO4--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Mg++
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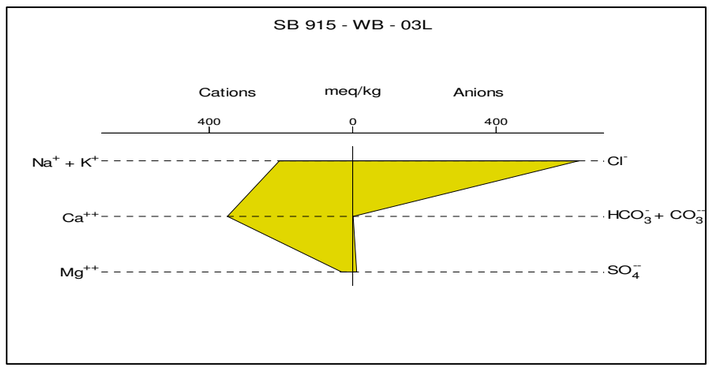
SO4--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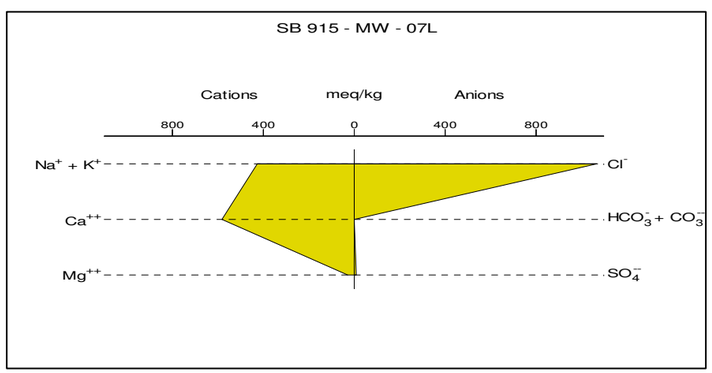
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--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Mg++
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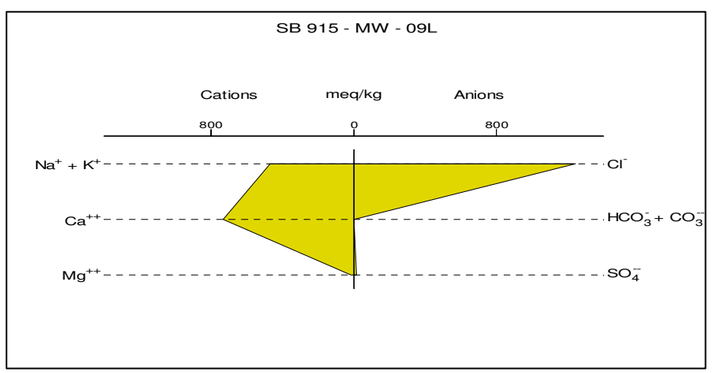
HCO3- + CO3--
SO4--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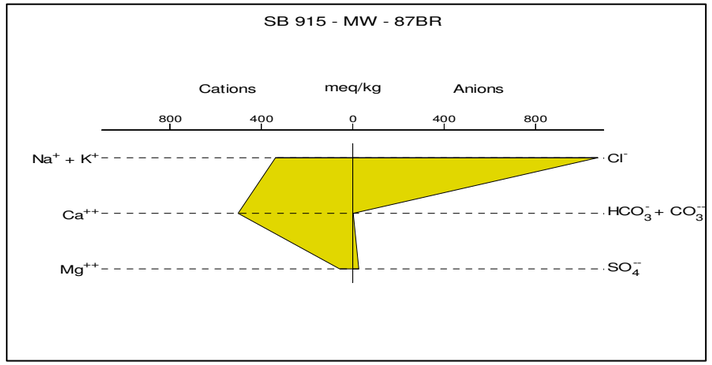
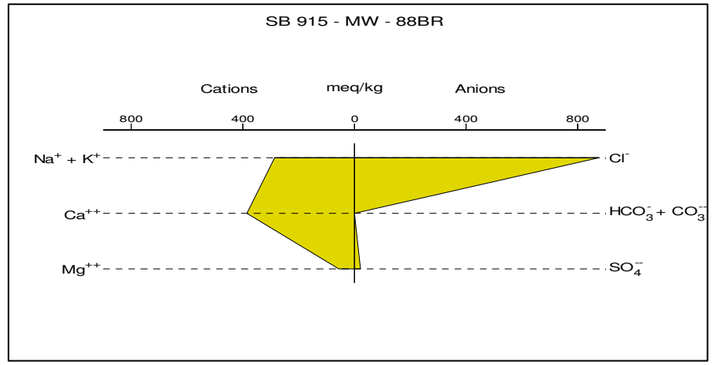
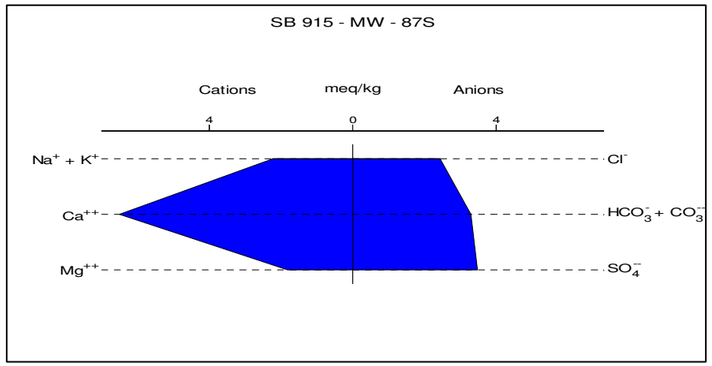
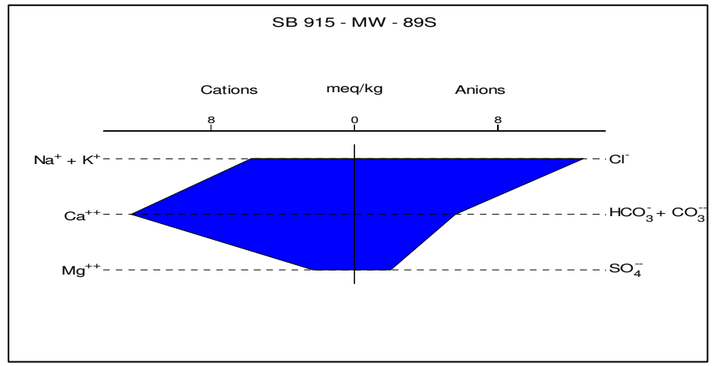
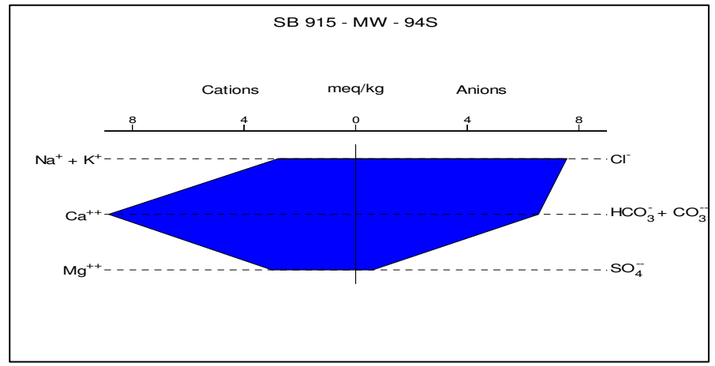
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

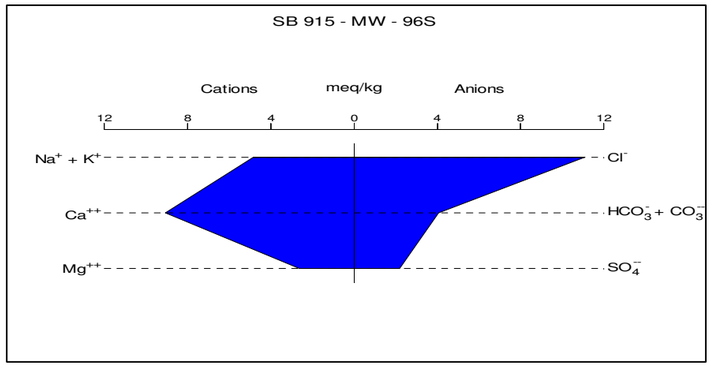

SB 915 - MW - 87BR
Cations
meq/kg
Anions
800
400
0
400
800
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

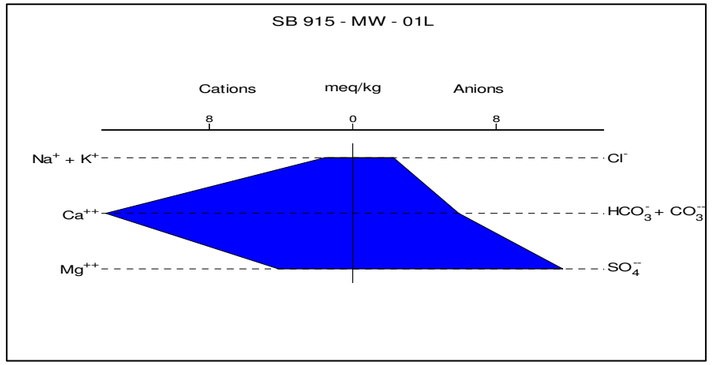

SB 915 - MW - 88BR
Cations
meq/kg
Anions
800
400
0
400
800
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

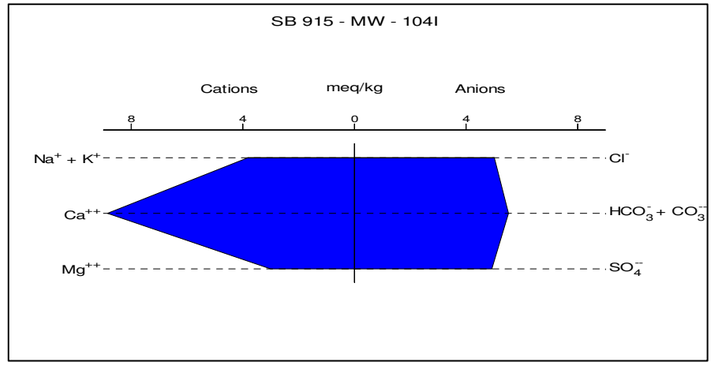

SB 915 - MW - 87S
Cations
meq/kg
Anions
4
0
4
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

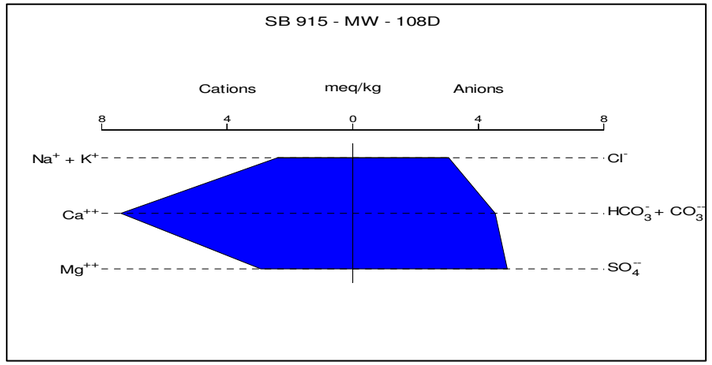

SB 915 - MW - 89S
Cations
meq/kg
Anions
8
0
8
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

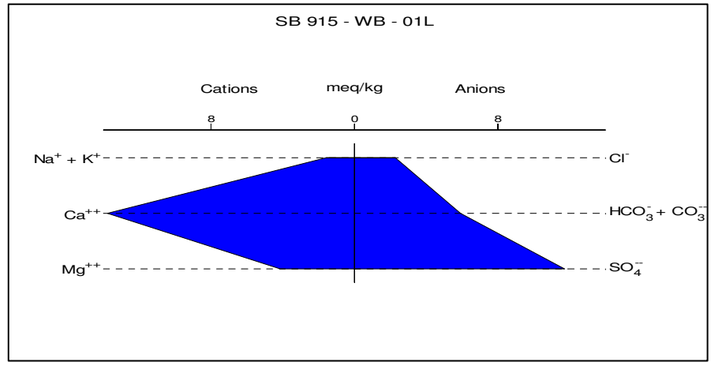

SB 915 - MW - 94S
Cations
meq/kg
Anions
8
4
0
4
8
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

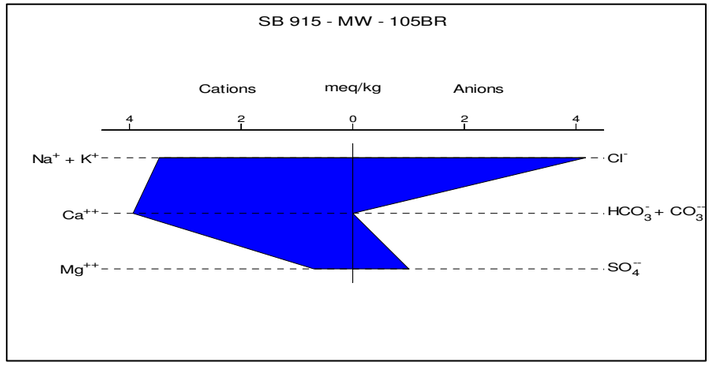

SB 915 - MW - 96S
Cations
meq/kg
Anions
12
8
4
0
4
8
12
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

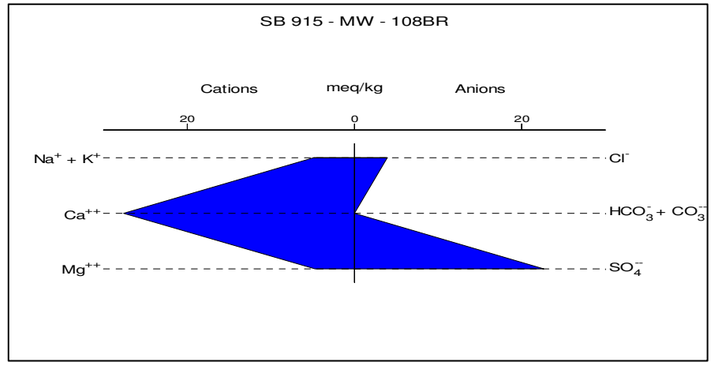

SB 915 - MW - 01L
Cations
meq/kg
Anions
8
0
8
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--


SB 915 - MW - 104I
Cations
meq/kg
Anions
8
4
0
4
8
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

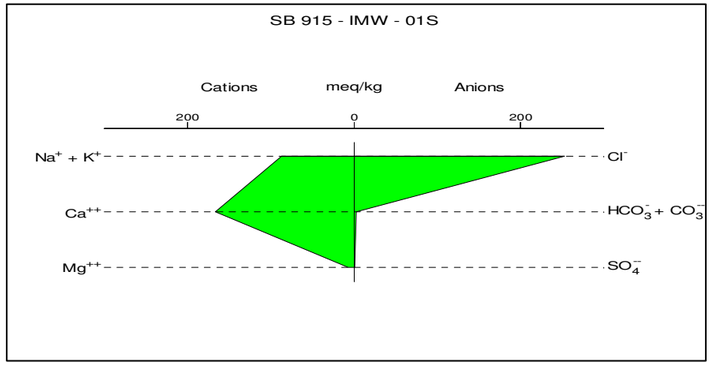

SB 915 - MW - 108D
Cations
meq/kg
Anions
8
4
0
4
8
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

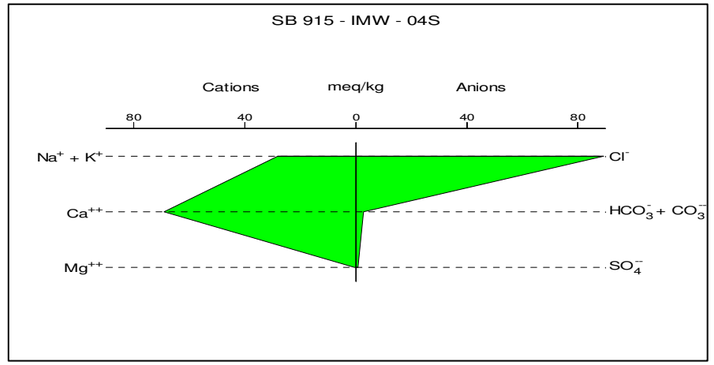

SB 915 - WB - 01L
Cations
meq/kg
Anions
8
0
8
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

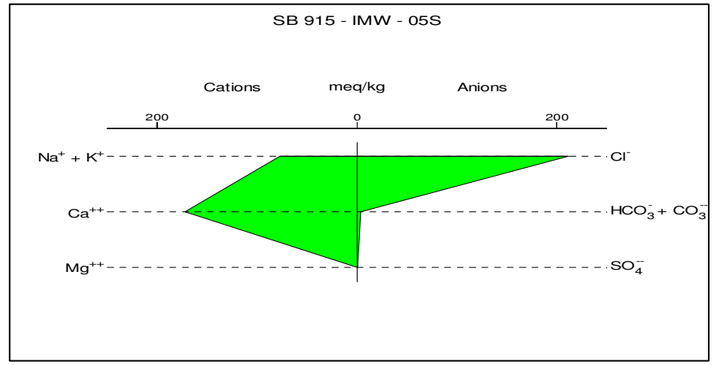

SB 915 - MW - 105BR
Cations
meq/kg
Anions
4
2
0
2
4
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

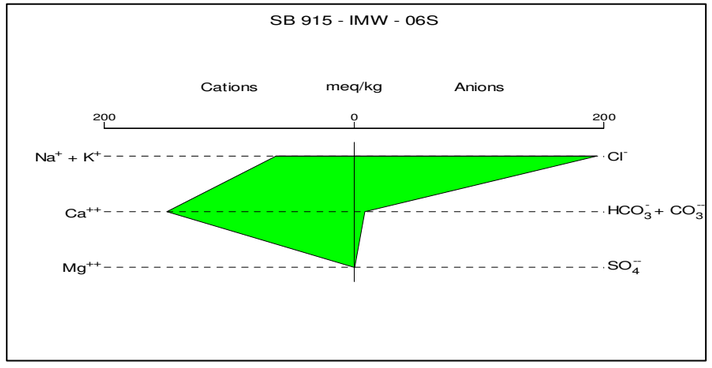

SB 915 - MW - 108BR
Cations
meq/kg
Anions
20
0
20
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

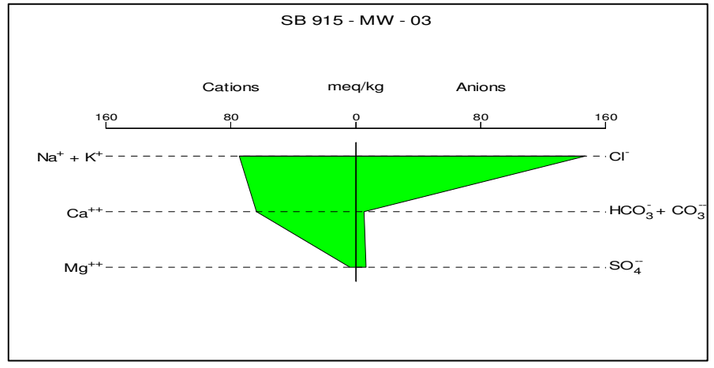
-

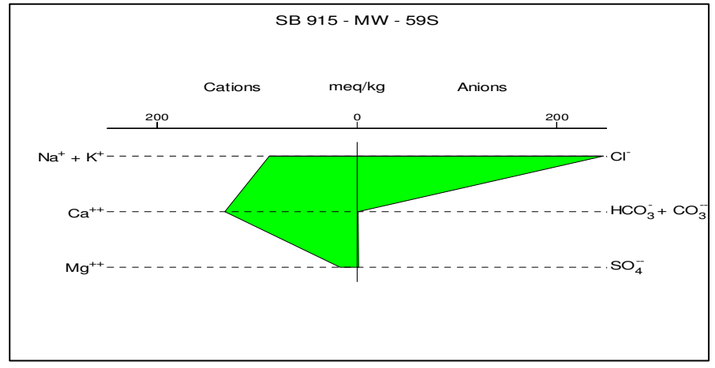

SB 915 - IMW - 01S
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

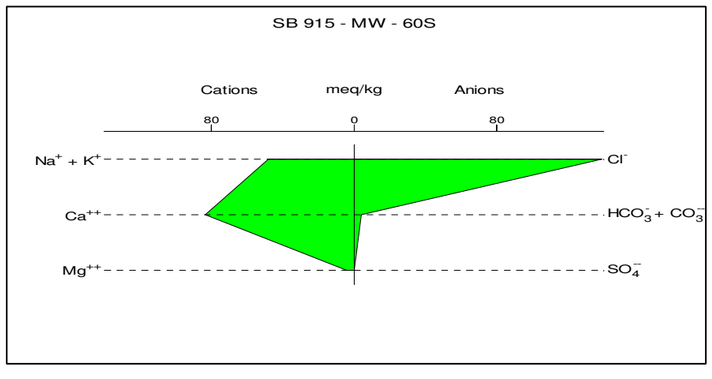

SB 915 - IMW - 04S
Cations
meq/kg
Anions
80
40
0
40
80
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

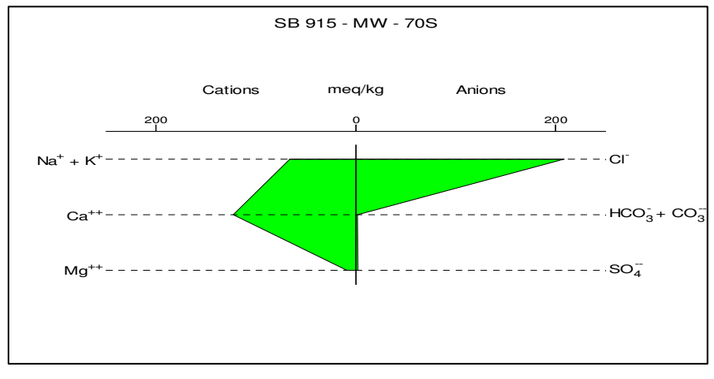

SB 915 - IMW - 05S
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

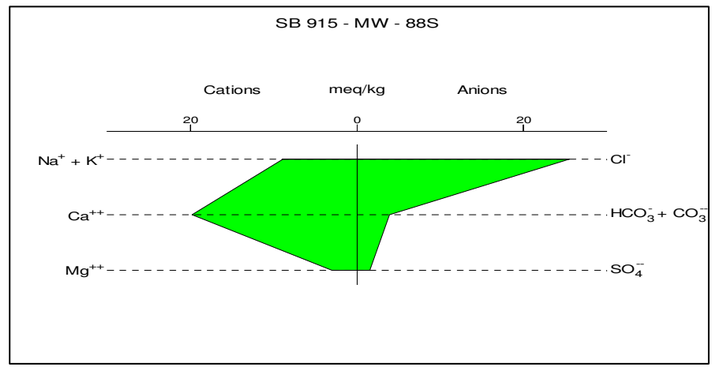

SB 915 - IMW - 06S
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

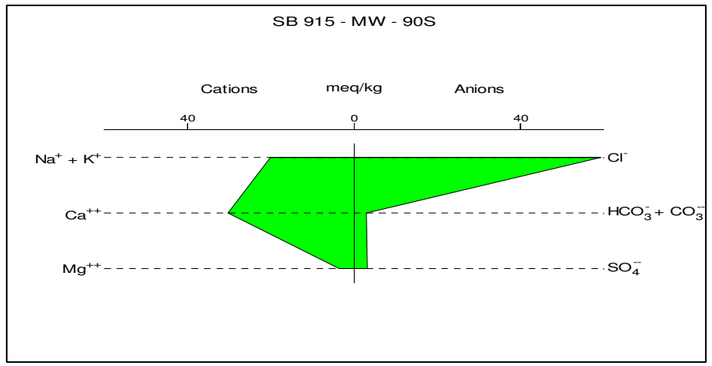

SB 915 - MW - 03
Cations
meq/kg
Anions
160
80
0
80
160
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

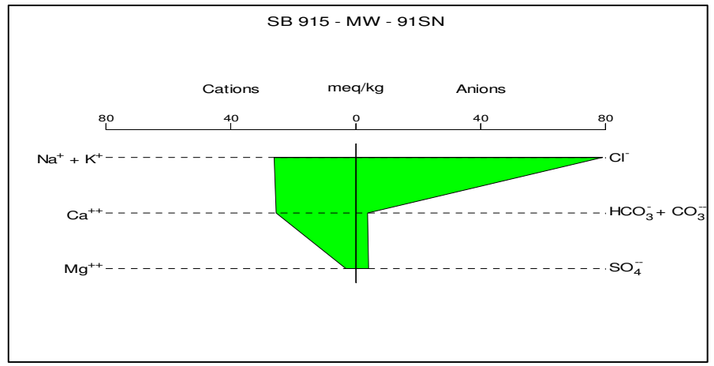

SB 915 - MW - 59S
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

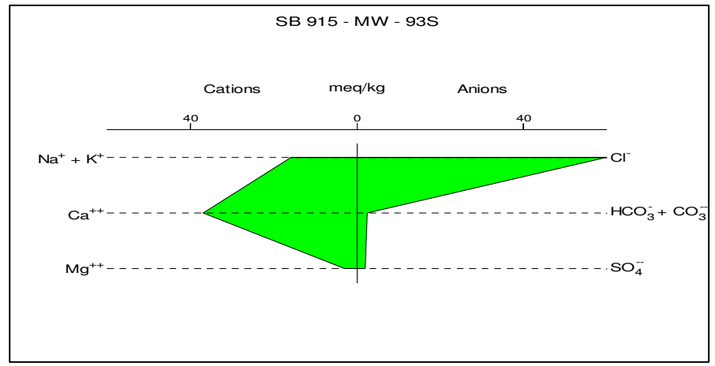

SB 915 - MW - 60S
Cations
meq/kg
Anions
80
0
80
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

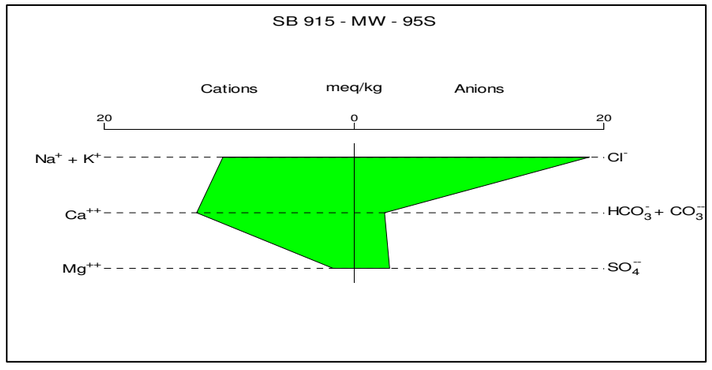

SB 915 - MW - 70S
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

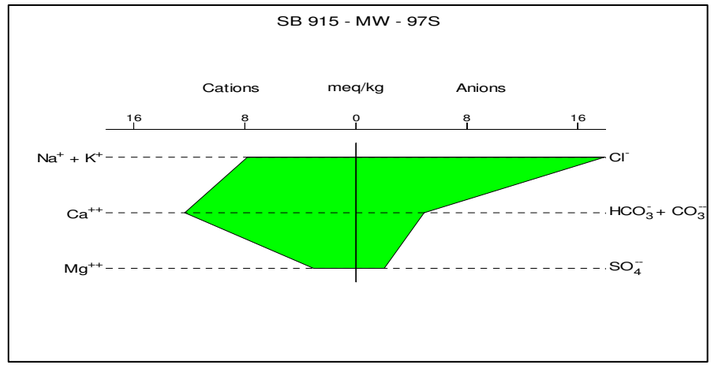

SB 915 - MW - 88S
Cations
meq/kg
Anions
20
0
20
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

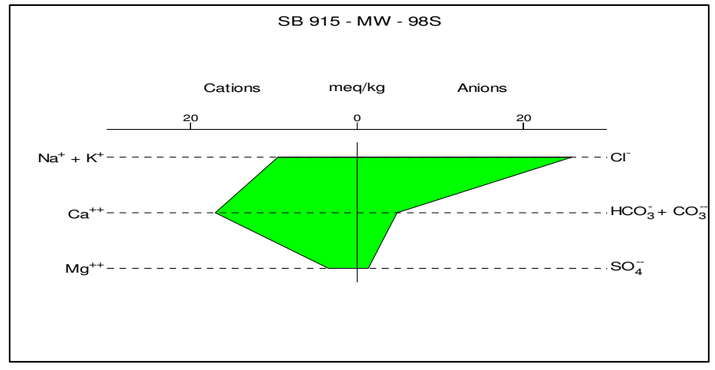

SB 915 - MW - 90S
Cations
meq/kg
Anions
40
0
40
$Na^+ + K^+$
Ca^{++}
Mg^{++}
Cl^-
$HCO_3^- + CO_3^{--}$
SO_4^{--}

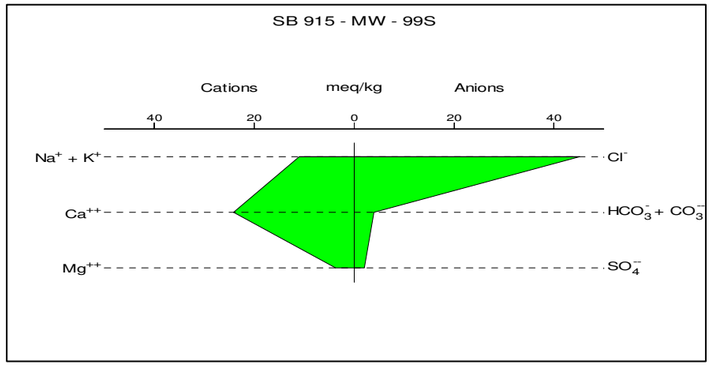

SB 915 - MW - 91SN
Cations
meq/kg
Anions
80
40
0
40
80
$Na^+ + K^+$
Ca^{++}
Mg^{++}
Cl^-
$HCO_3^- + CO_3^{--}$
SO_4^{--}

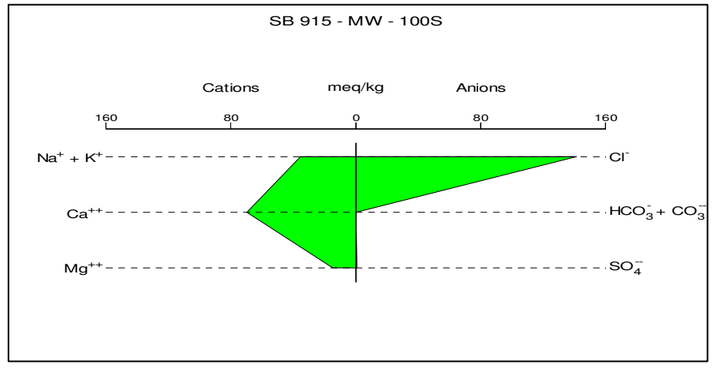

SB 915 - MW - 93S
Cations
meq/kg
Anions
40
0
40
$Na^+ + K^+$
Ca^{++}
Mg^{++}
Cl^-
$HCO_3^- + CO_3^{--}$
SO_4^{--}

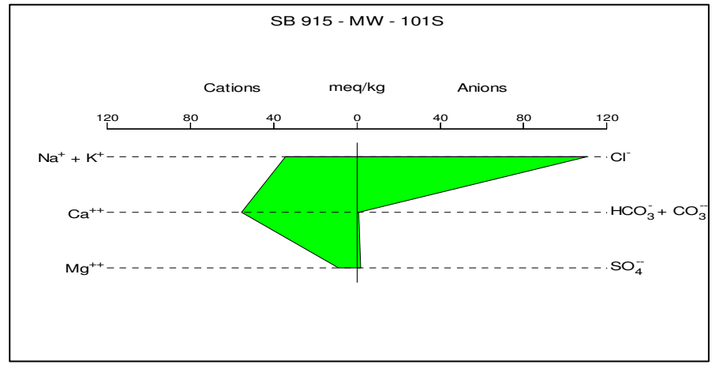

SB 915 - MW - 95S
Cations
meq/kg
Anions
20
0
20
$Na^+ + K^+$
Ca^{++}
Mg^{++}
Cl^-
$HCO_3^- + CO_3^{--}$
SO_4^{--}

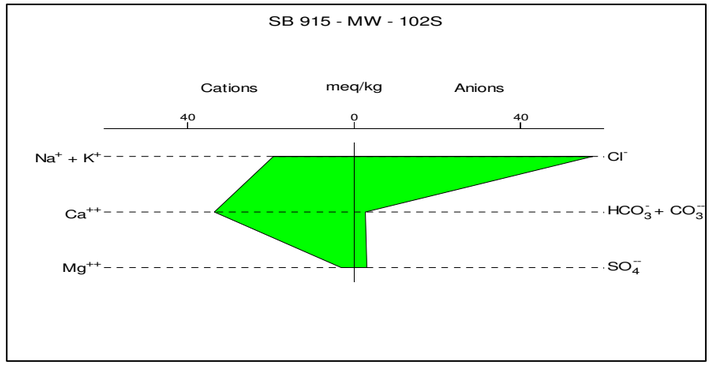

SB 915 - MW - 97S
Cations
meq/kg
Anions
16
8
0
8
16
$Na^+ + K^+$
Ca^{++}
Mg^{++}
Cl^-
$HCO_3^- + CO_3^{--}$
SO_4^{--}

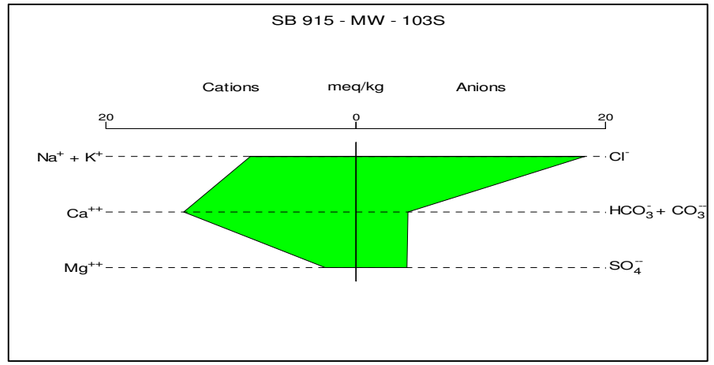

SB 915 - MW - 98S
Cations
meq/kg
Anions
20
0
20
$Na^+ + K^+$
Ca^{++}
Mg^{++}
Cl^-
$HCO_3^- + CO_3^{--}$
SO_4^{--}

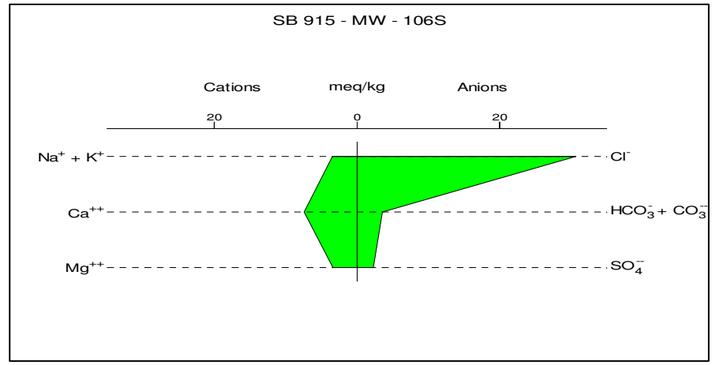

SB 915 - MW - 99S
Cations
meq/kg
Anions
40
20
0
20
40
$Na^+ + K^+$
Ca^{++}
Mg^{++}
Cl^-
$HCO_3^- + CO_3^{--}$
SO_4^{--}

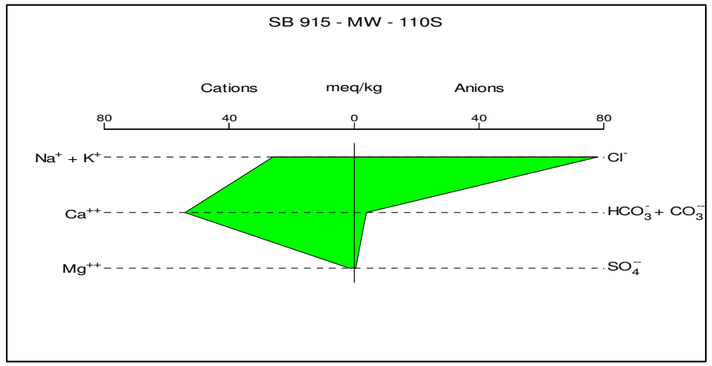

SB 915 - MW - 100S
Cations
meq/kg
Anions
160
80
0
80
160
$Na^+ + K^+$
Ca^{++}
Mg^{++}
Cl^-
$HCO_3^- + CO_3^{--}$
SO_4^{--}

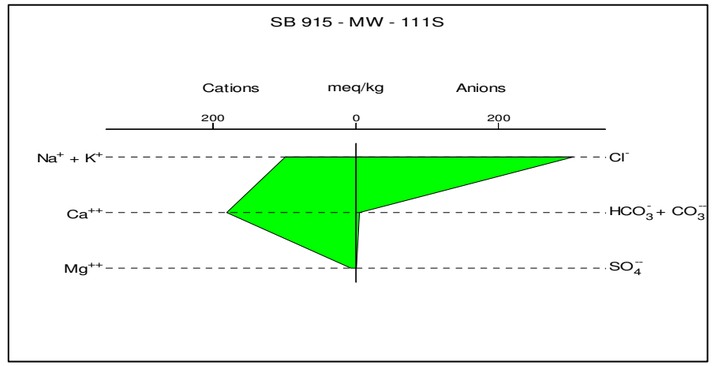

SB 915 - MW - 101S
Cations
meq/kg
Anions
120
80
40
0
40
80
120
$Na^+ + K^+$
Ca^{++}
Mg^{++}
Cl^-
$HCO_3^- + CO_3^{--}$
SO_4^{--}

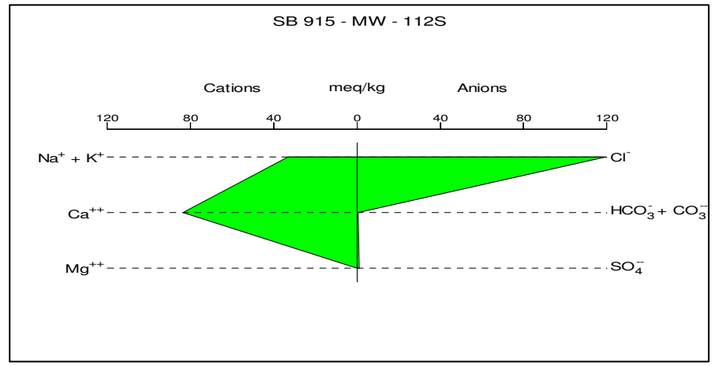

SB 915 - MW - 102S
Cations
meq/kg
Anions
40
0
40
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

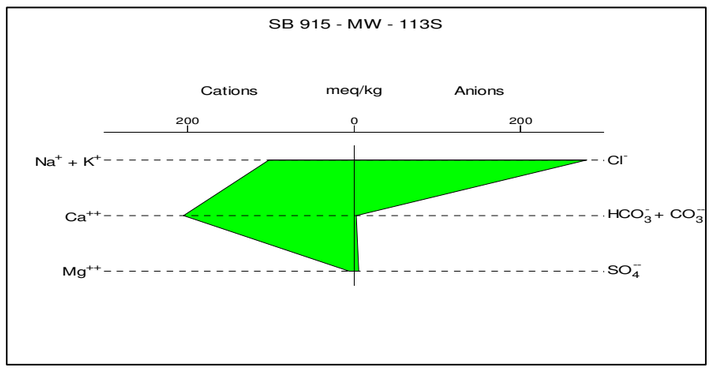

SB 915 - MW - 103S
Cations
meq/kg
Anions
20
0
20
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

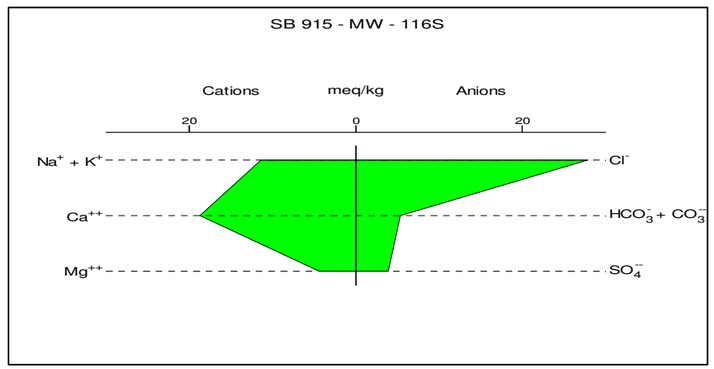

SB 915 - MW - 106S
Cations
meq/kg
Anions
20
0
20
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

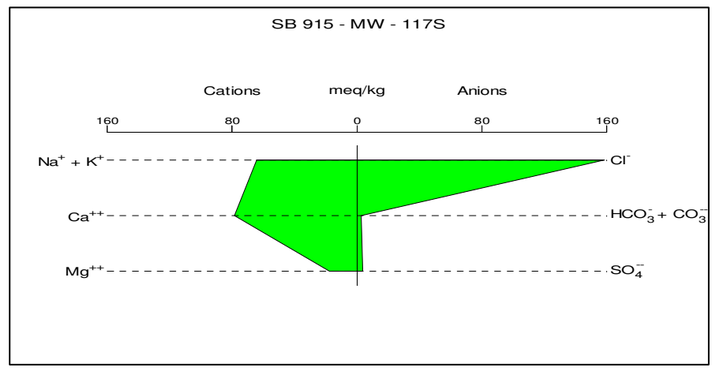

SB 915 - MW - 110S
Cations
meq/kg
Anions
80
40
0
40
80
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

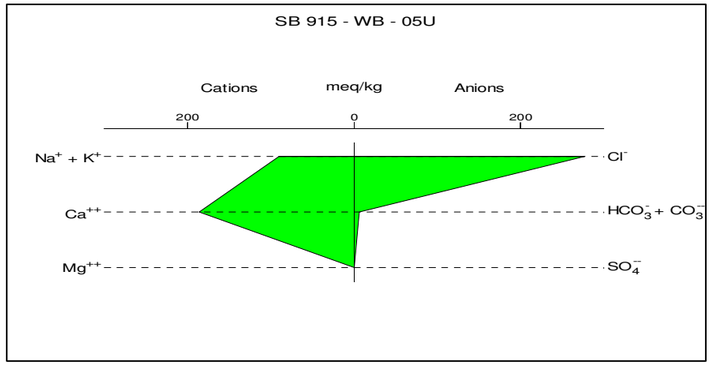

SB 915 - MW - 111S
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

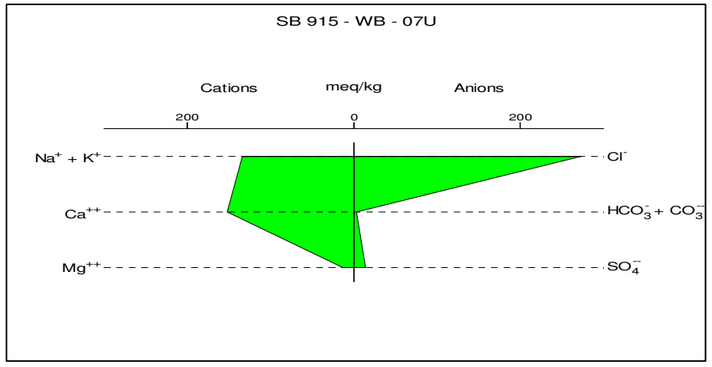

SB 915 - MW - 112S
Cations
meq/kg
Anions
120
80
40
0
40
80
120
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

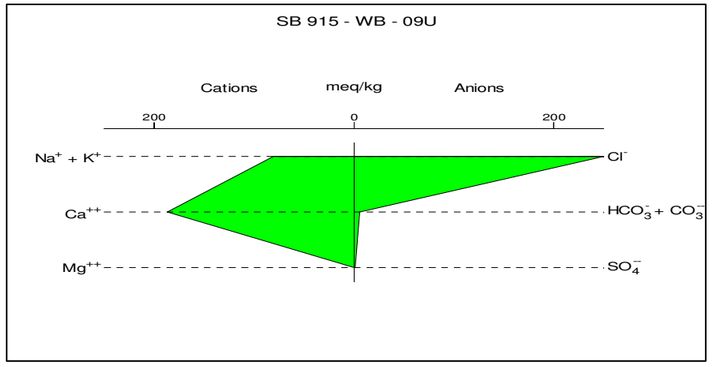

SB 915 - MW - 113S
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

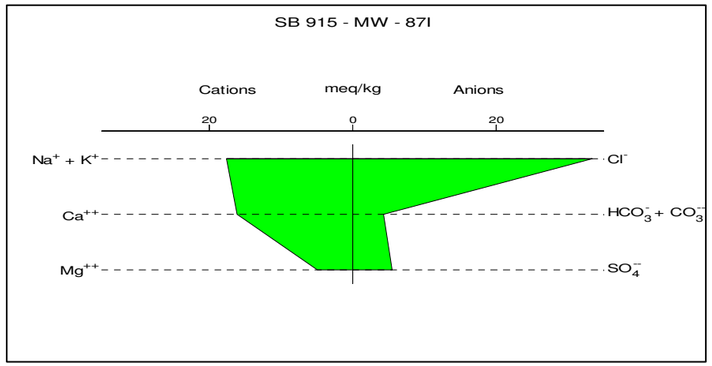

SB 915 - MW - 116S
Cations
meq/kg
Anions
20
0
20
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

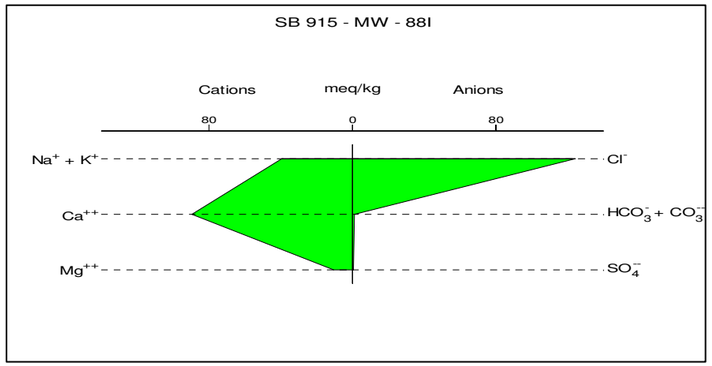

SB 915 - MW - 117S
Cations
meq/kg
Anions
160
80
0
80
160
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

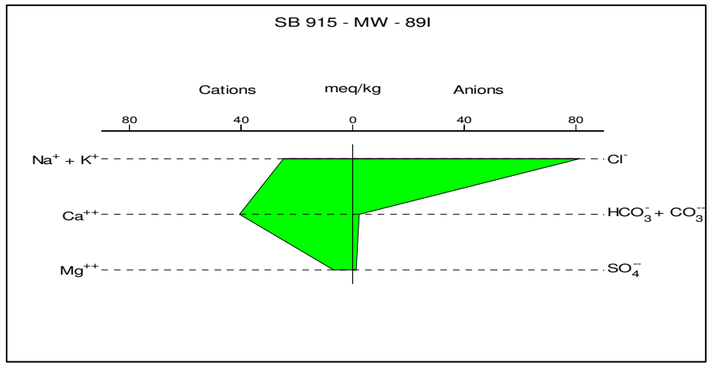

SB 915 - WB - 05U
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

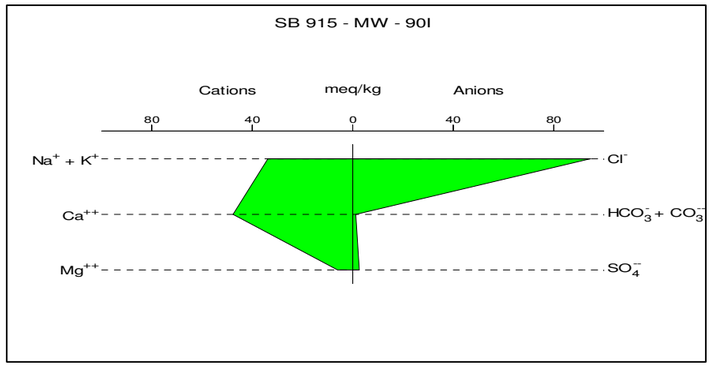

SB 915 - WB - 07U
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

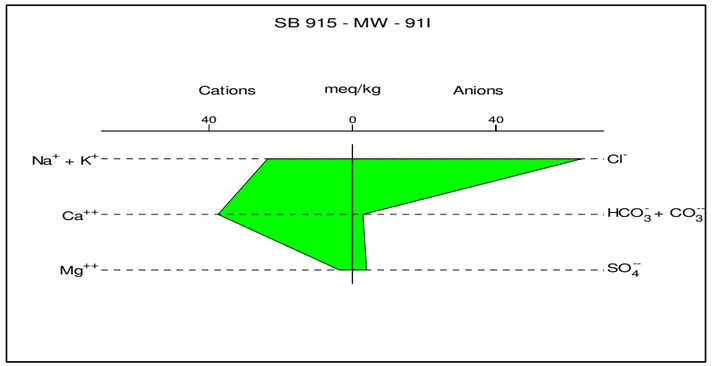

SB 915 - WB - 09U
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

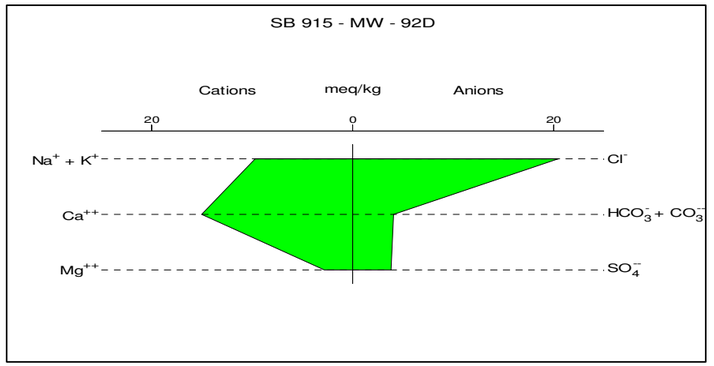

SB 915 - MW - 87I
Cations
meq/kg
Anions
20
0
20
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

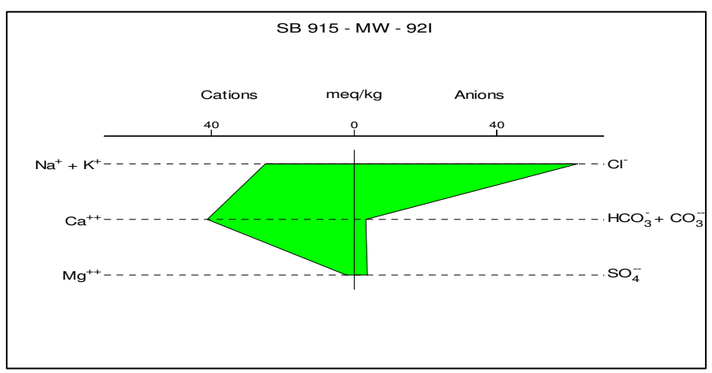

SB 915 - MW - 88I
Cations
meq/kg
Anions
80
0
80
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

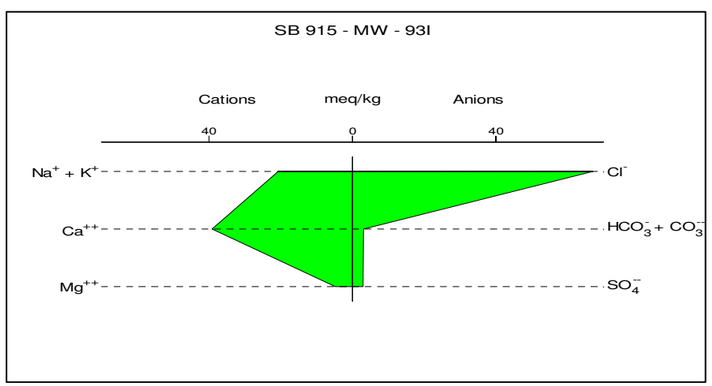

SB 915 - MW - 89I
Cations
meq/kg
Anions
80
40
0
40
80
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

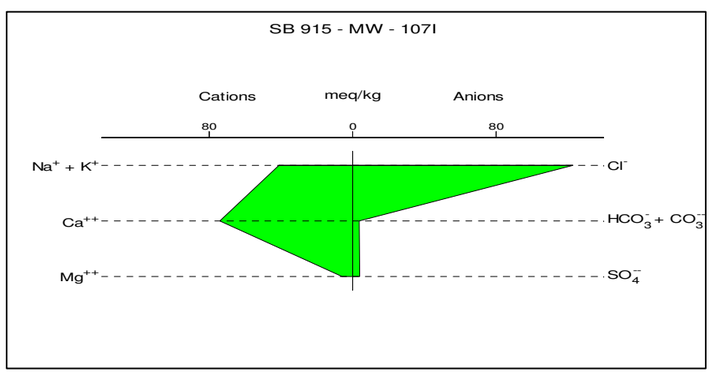

SB 915 - MW - 90I
Cations
meq/kg
Anions
80
40
0
40
80
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

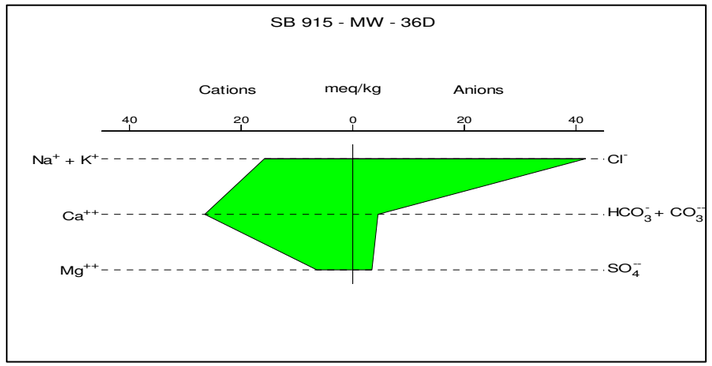

SB 915 - MW - 91I
Cations
meq/kg
Anions
40
0
40
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

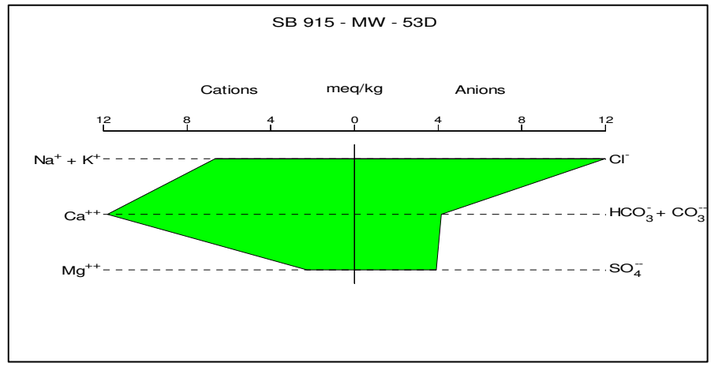

SB 915 - MW - 92D
Cations
meq/kg
Anions
20
0
20
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

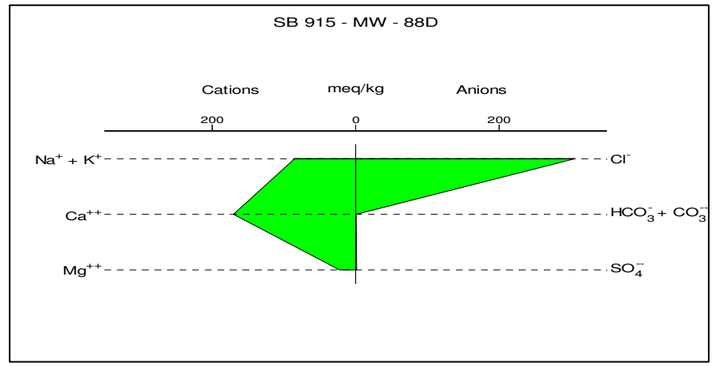

SB 915 - MW - 92I
Cations
meq/kg
Anions
40
0
40
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

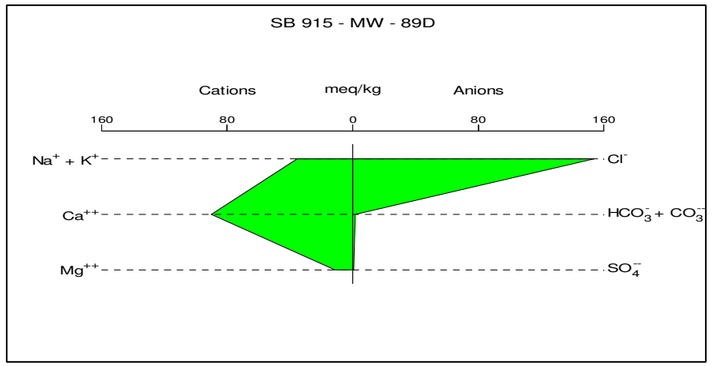

SB 915 - MW - 93I
Cations
meq/kg
Anions
40
0
40
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

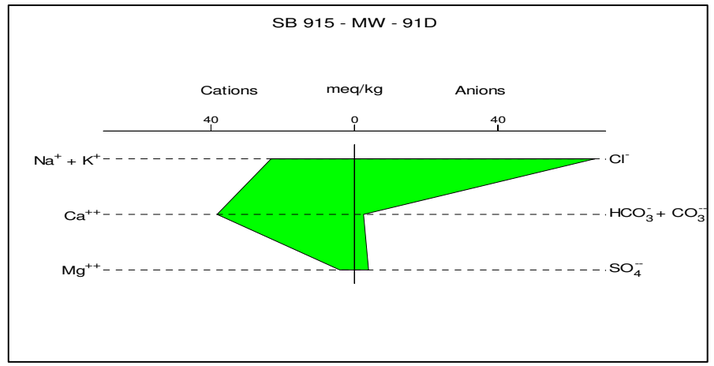

SB 915 - MW - 107I
Cations
meq/kg
Anions
80
0
80
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

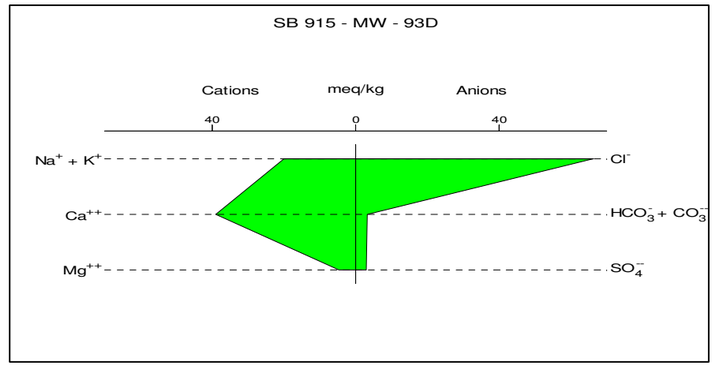

SB 915 - MW - 36D
Cations
meq/kg
Anions
40
20
0
20
40
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

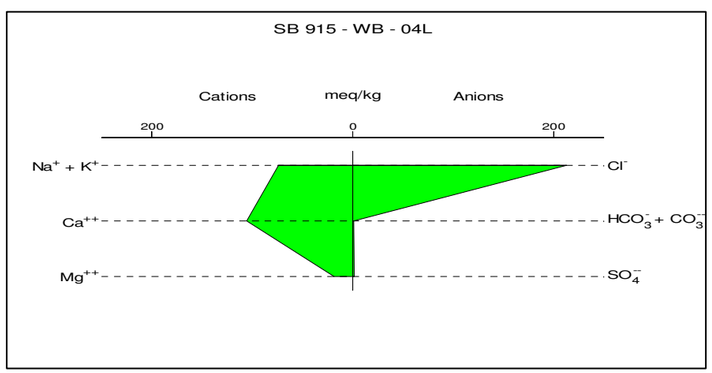

SB 915 - MW - 53D
Cations
meq/kg
Anions
12
8
4
0
4
8
12
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

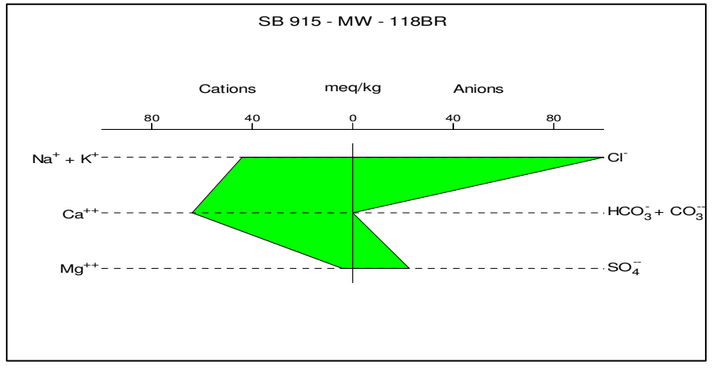

SB 915 - MW - 88D
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

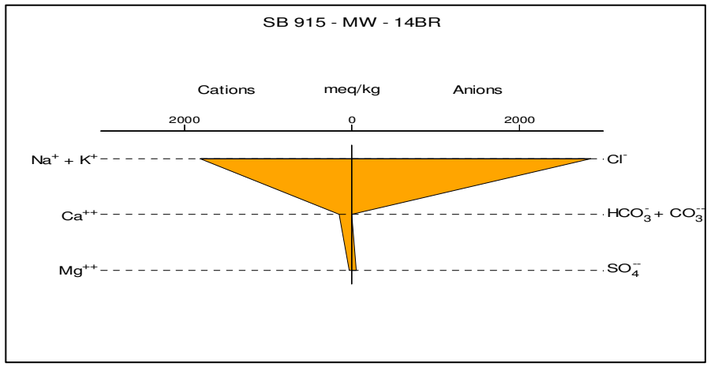

SB 915 - MW - 89D
Cations
meq/kg
Anions
160
80
0
80
160
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

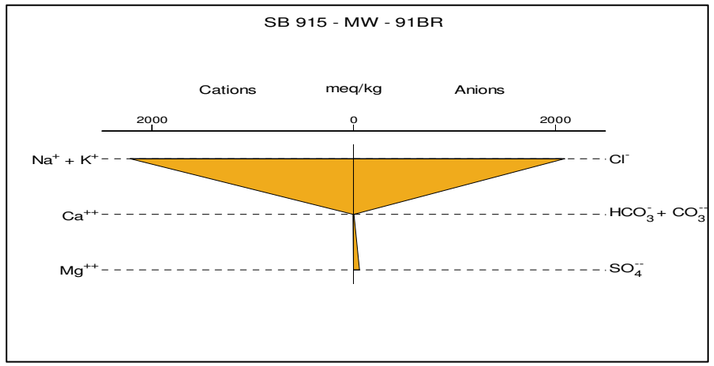

SB 915 - MW - 91D
Cations
meq/kg
Anions
40
0
40
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

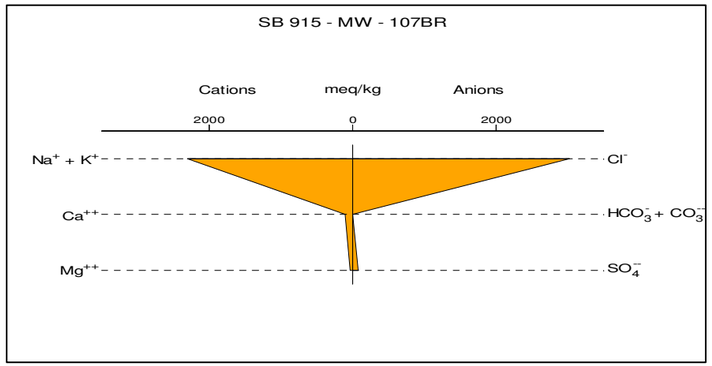

SB 915 - MW - 93D
Cations
meq/kg
Anions
40
0
40
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

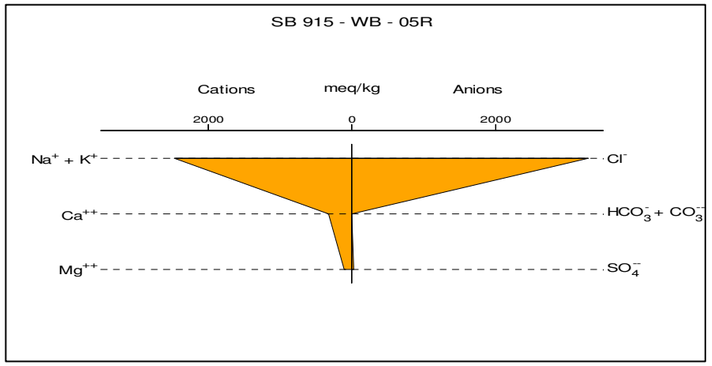

SB 915 - WB - 04L
Cations
meq/kg
Anions
200
0
200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

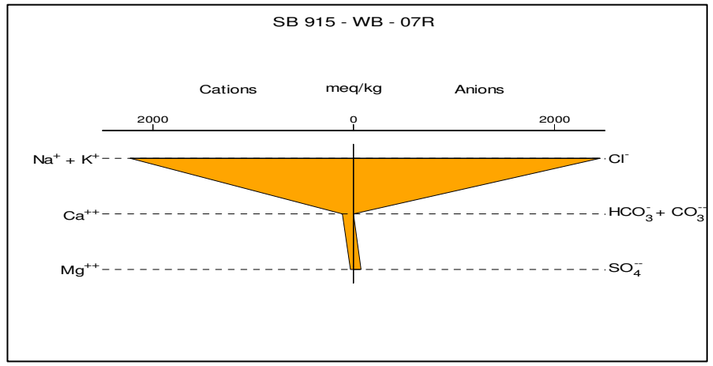

SB 915 - MW - 118BR
Cations
meq/kg
Anions
80
40
0
40
80
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

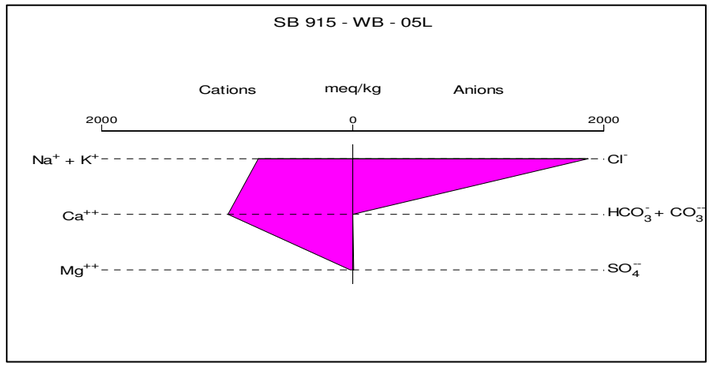

SB 915 - MW - 14BR
Cations
meq/kg
Anions
2000
0
2000
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

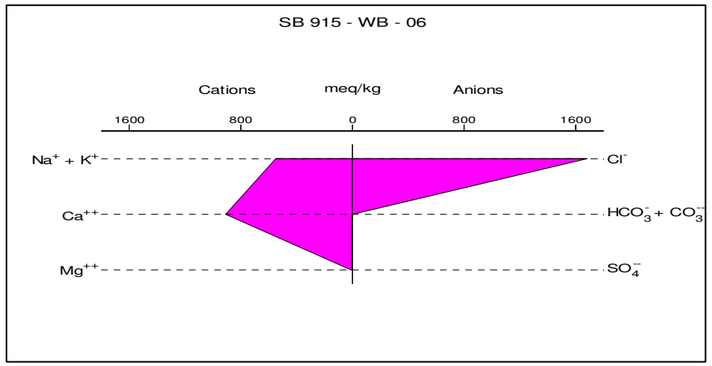

SB 915 - MW - 91BR
Cations
meq/kg
Anions
2000
0
2000
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

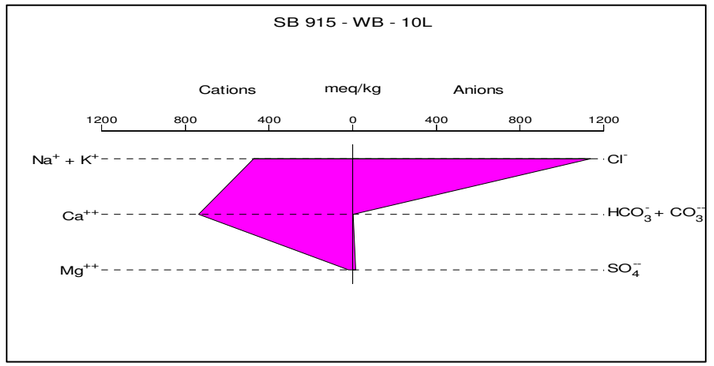

SB 915 - MW - 107BR
Cations
meq/kg
Anions
2000
0
2000
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

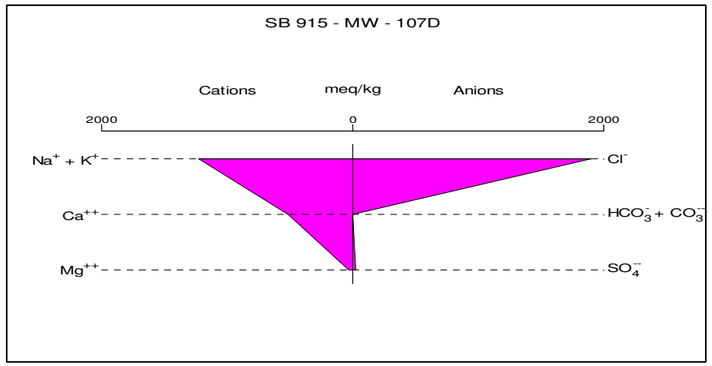

SB 915 - WB - 05R
Cations
meq/kg
Anions
2000
0
2000
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

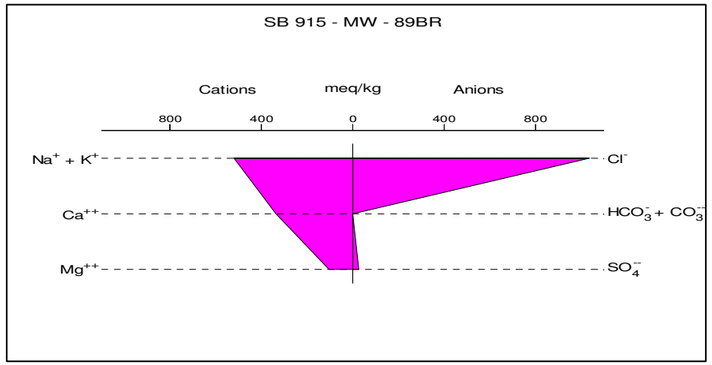

SB 915 - WB - 07R
Cations
meq/kg
Anions
2000
0
2000
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

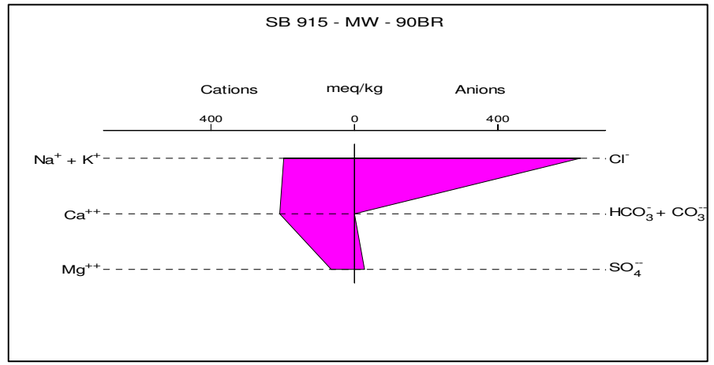

SB 915 - WB - 05L
Cations
meq/kg
Anions
2000
0
2000
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

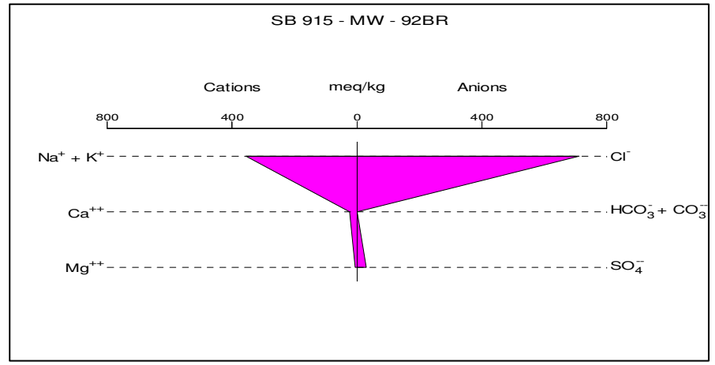

SB 915 - WB - 06
Cations
meq/kg
Anions
1600
800
0
800
1600
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

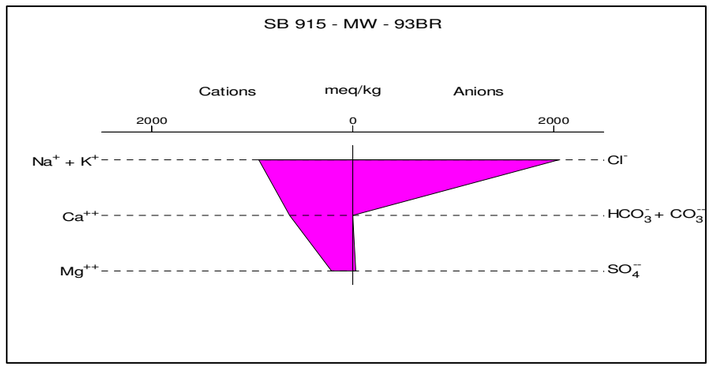

SB 915 - WB - 10L
Cations
meq/kg
Anions
1200
800
400
0
400
800
1200
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

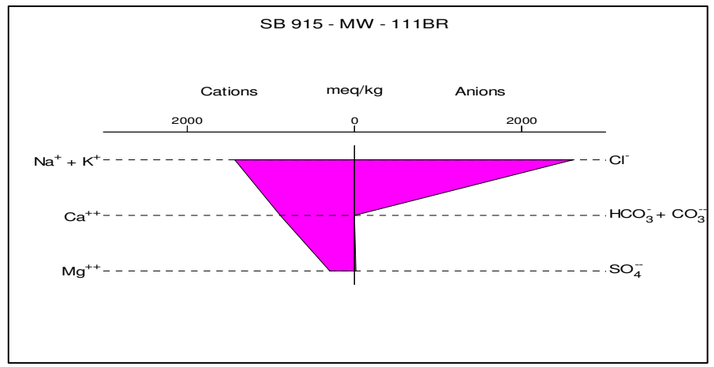

SB 915 - MW - 107D
Cations
meq/kg
Anions
2000
0
2000
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

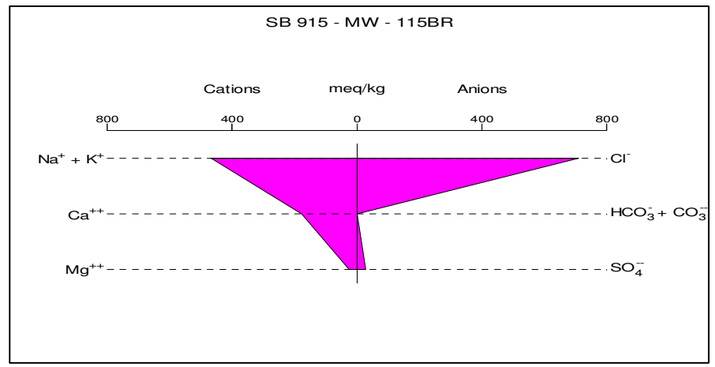

SB 915 - MW - 89BR
Cations
meq/kg
Anions
800
400
0
400
800
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--


SB 915 - MW - 90BR
Cations
meq/kg
Anions
400
0
400
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--


SB 915 - MW - 92BR
Cations
meq/kg
Anions
800
400
0
400
800
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--


SB 915 - MW - 93BR
Cations
meq/kg
Anions
2000
0
2000
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--


SB 915 - MW - 111BR
Cations
meq/kg
Anions
2000
0
2000
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--


SB 915 - MW - 115BR
Cations
meq/kg
Anions
800
400
0
400
800
Na+ + K+
Ca++
Mg++
Cl-
HCO3- + CO3--
SO4--

Appendix K

Analytical Concentration Plots

Appendix K-1

Solvay Waste/Shallow Fill Groundwater

I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\1,2-Dichlorobenzene\Dichlorobenzene_SolvayWaste.mxd



This document was developed in color. Reproduction in B/W may not represent the data as intended.

FIGURE K-1.1

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1, 2 - DICHLOROBENZENE SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

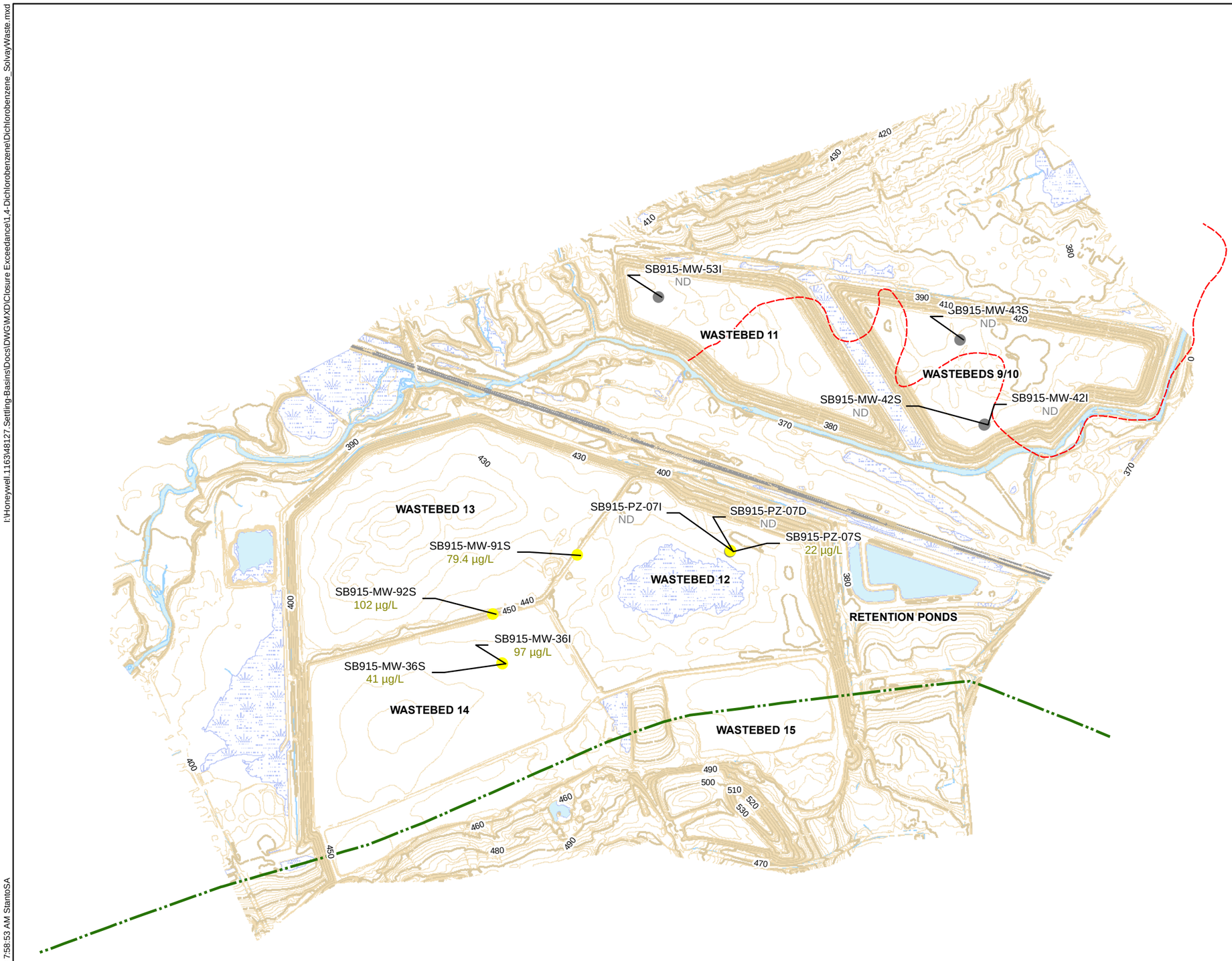
0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

PLOTDATE: 10/01/13 8:04:04 AM StantoSA

FIGURE K-1.2



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1, 4 - DICHLOROBENZENE SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

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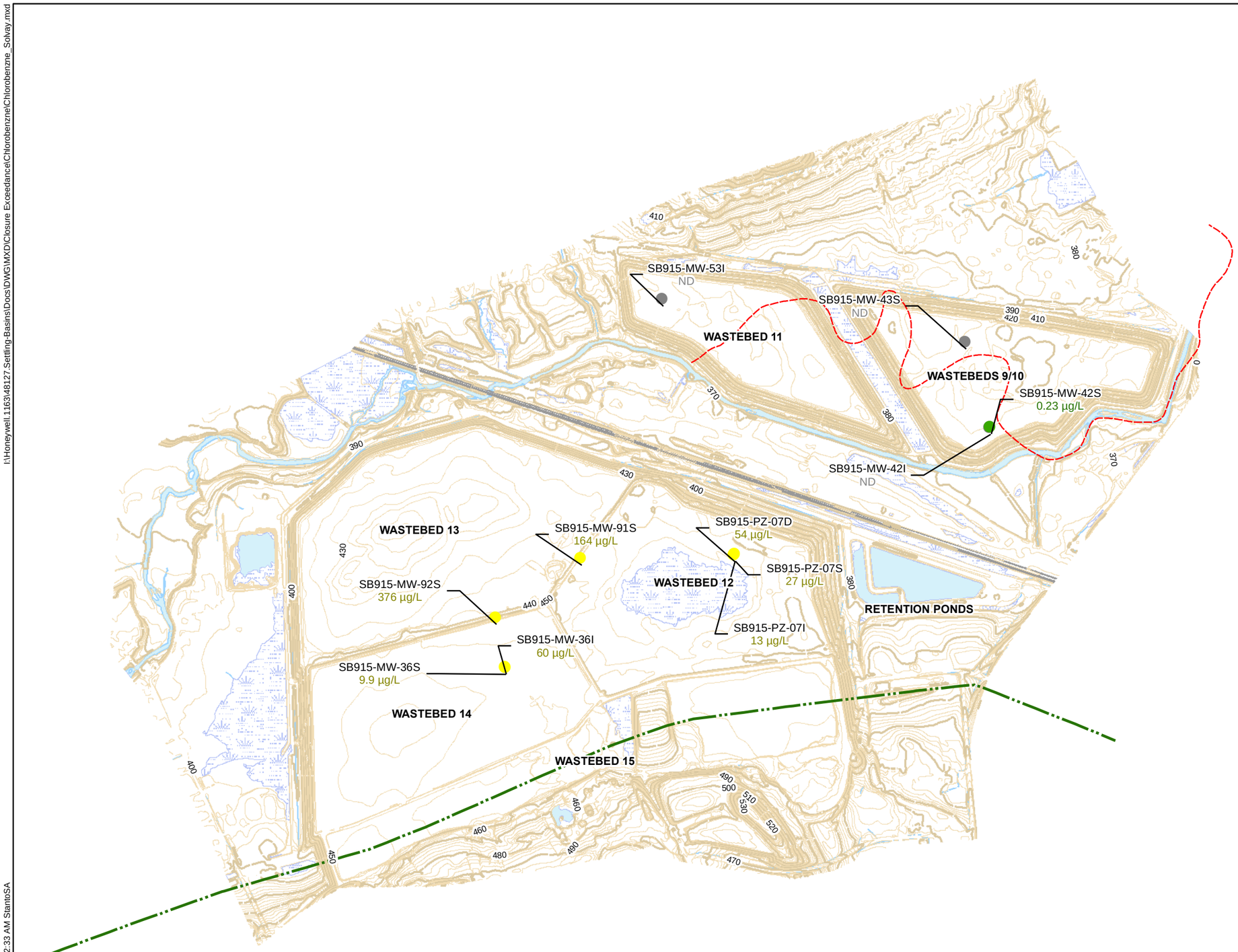
I:\Honeywell.116348127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\1,4-Dichlorobenzene\Dichlorobenzene_SolvayWaste.mxd
PLOTDATE: 10/01/13 7:58:53 AM StantoSA

FIGURE K-1.3



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLOROBENZNE SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

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I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\Chlorobenzne\Chlorobenzne_Solvay.mxd
PLOTDATE: 10/01/13 8:02:33 AM StantoSA

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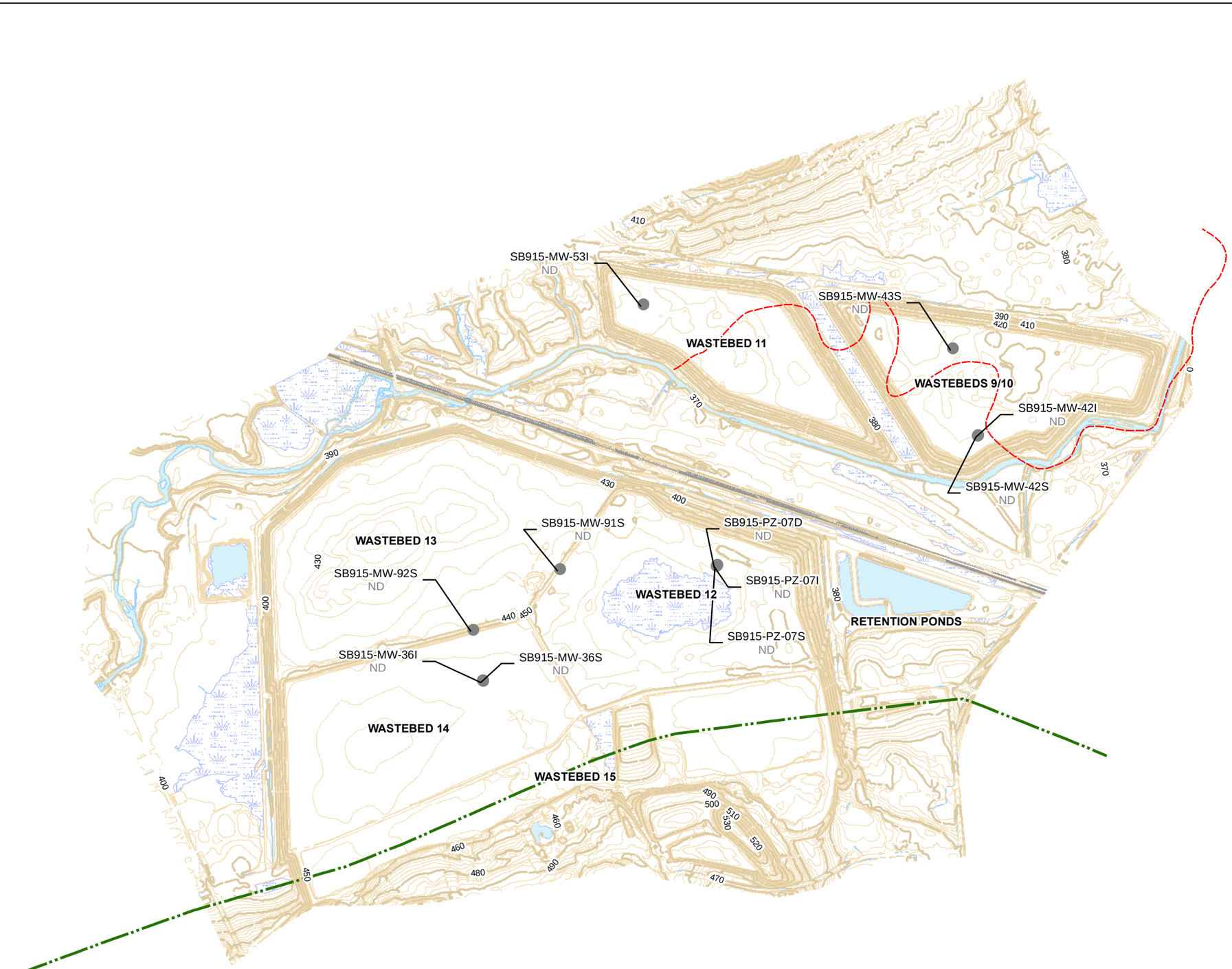

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FIGURE K-1.4

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CIS - 1,2 - DICHLOROETHENE SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
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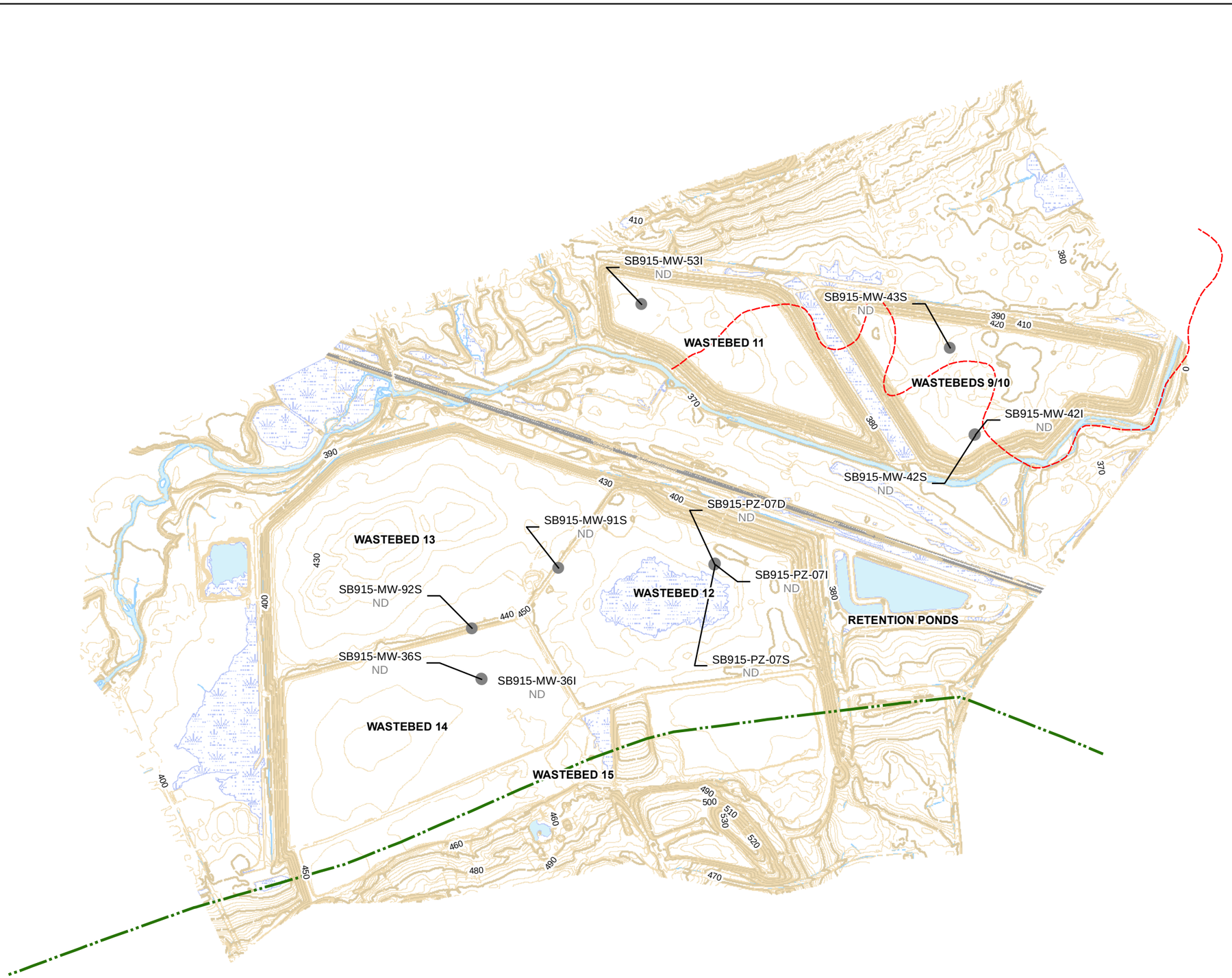
O'BRIEN & GERE

FIGURE K-1.5



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1,2 - DICHLOROETHANE SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

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I:\Honeywell.116348127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\1,2-Dichloroethane\Dichloroethane_Solvay.mxd
PLOTDATE: 10/01/13 8:07:00 AM StantoSA

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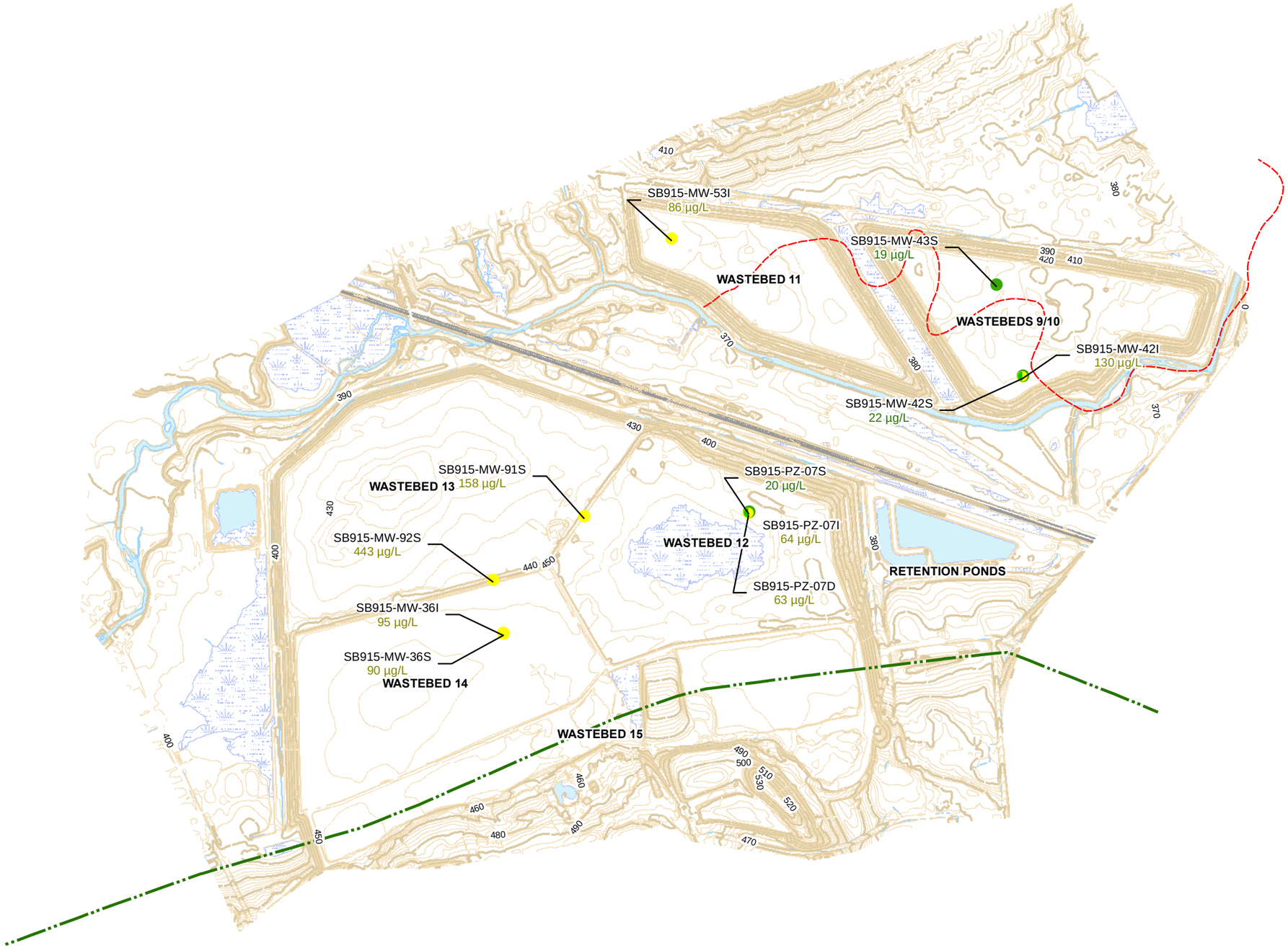

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FIGURE K-1.6

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

ACETONE SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

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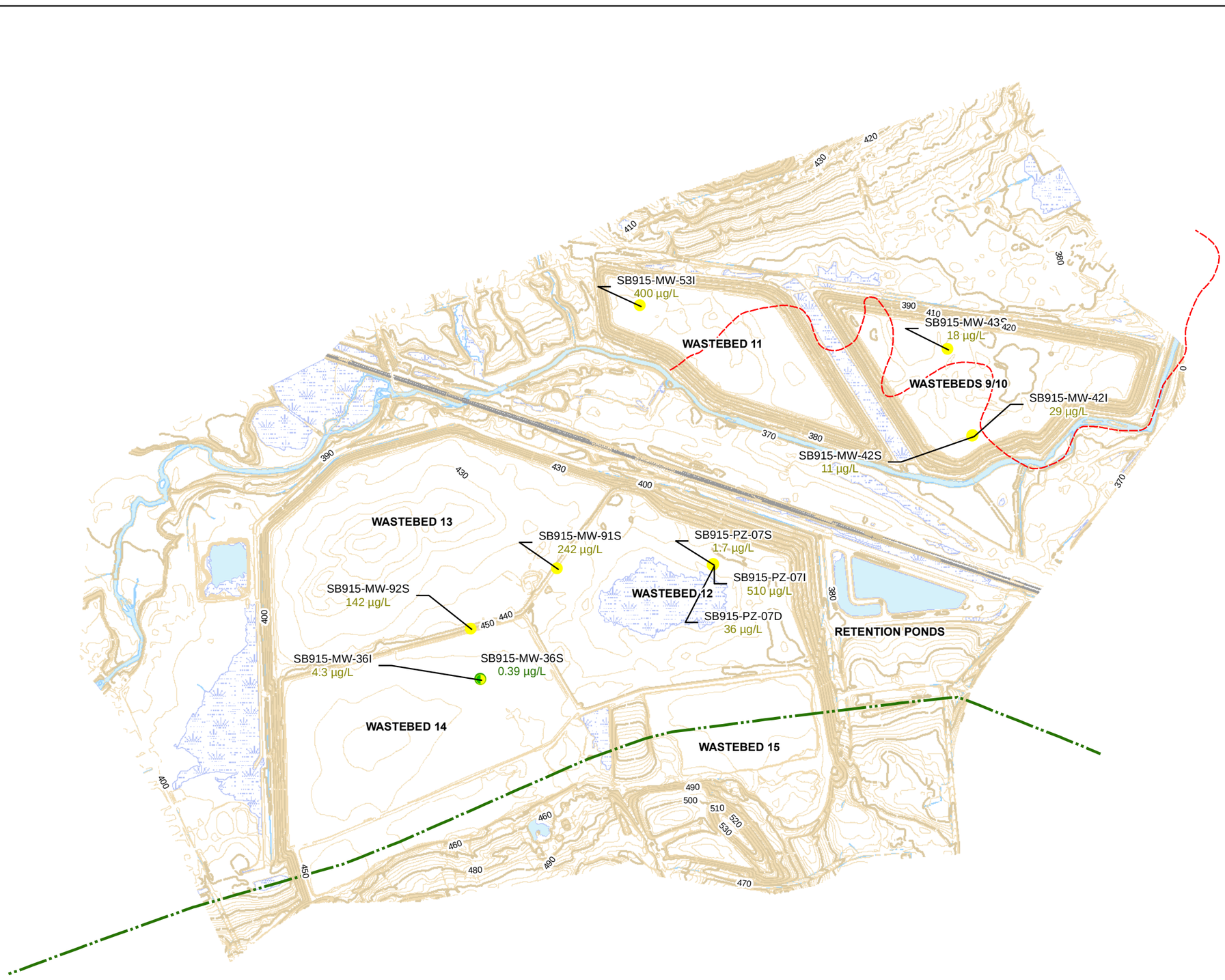
I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\Benzene\Benzene_Solvay.mxd

FIGURE K-1.7



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

BENZENE SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

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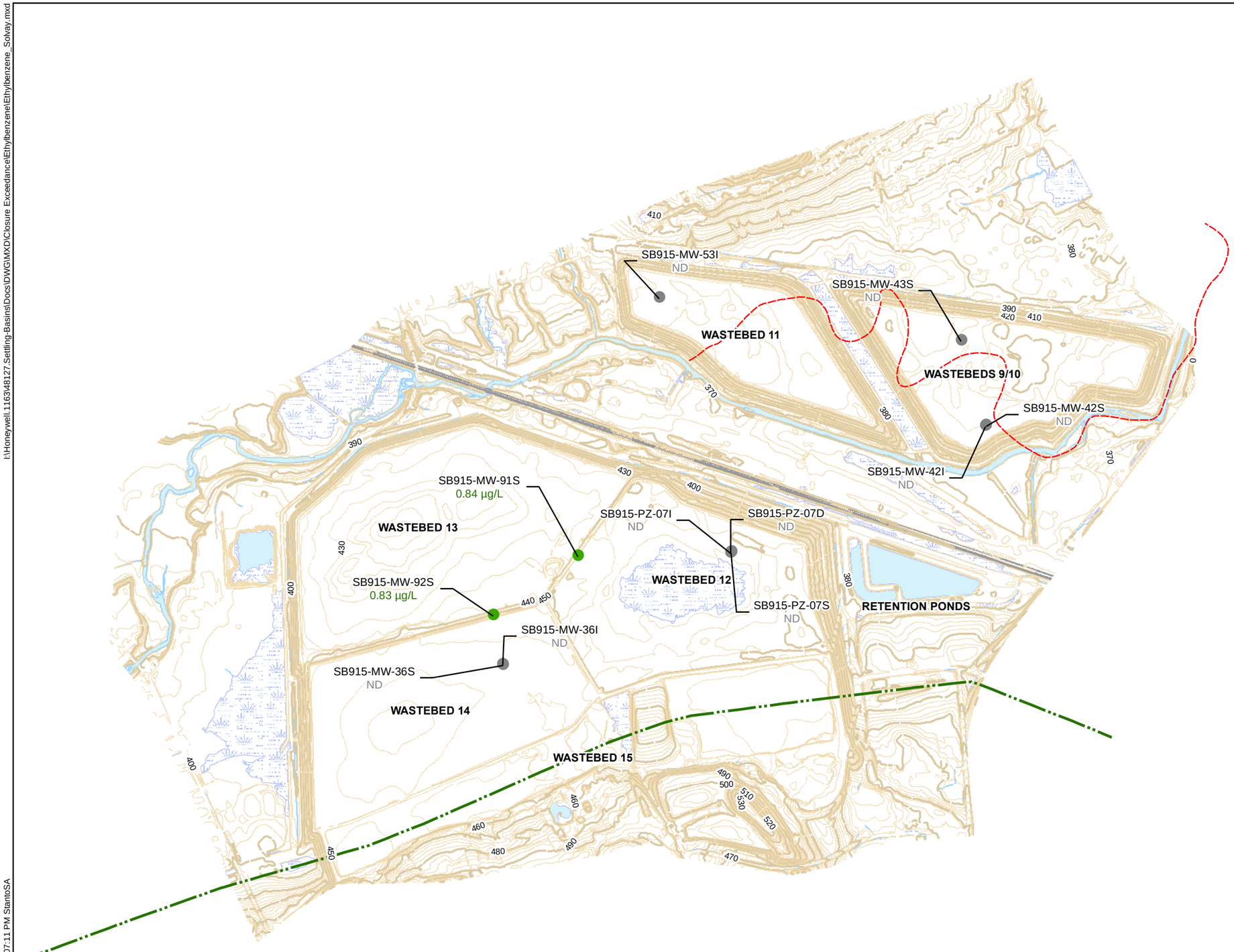
FIGURE K-1.8



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

ETHYLBENZENE SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

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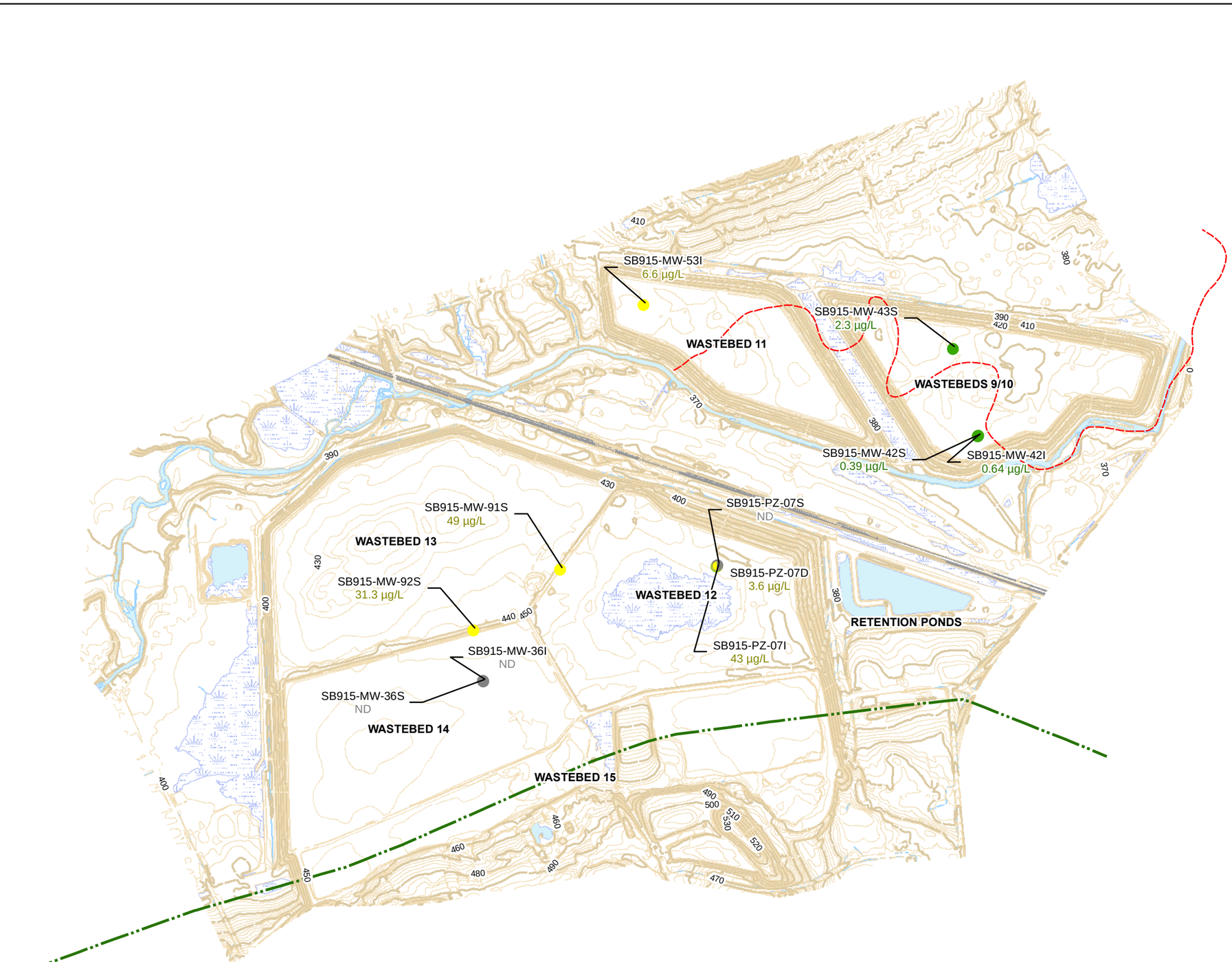

FIGURE K-1.9

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOLUENE
SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

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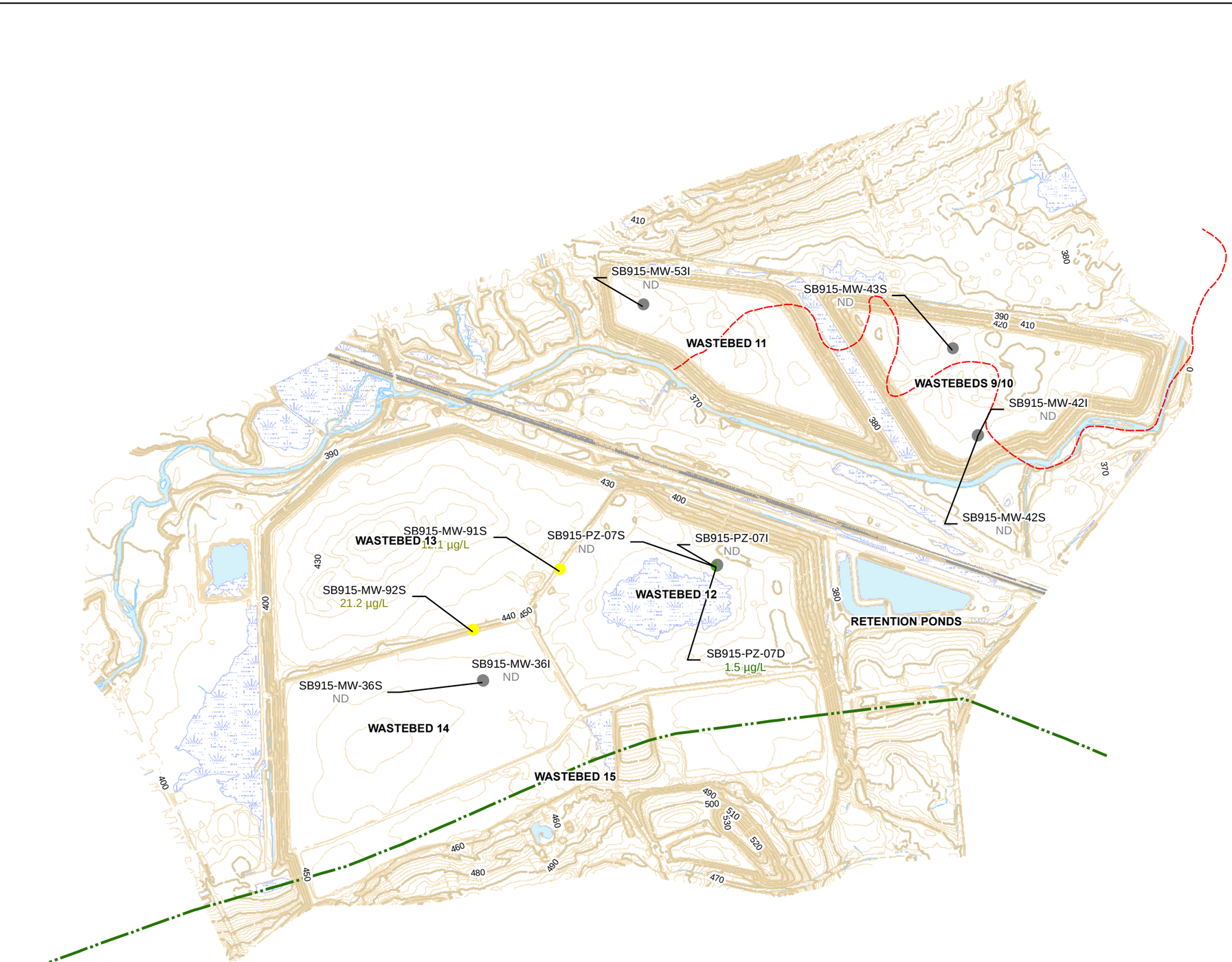

FIGURE K-1.10

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL XYLENES SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

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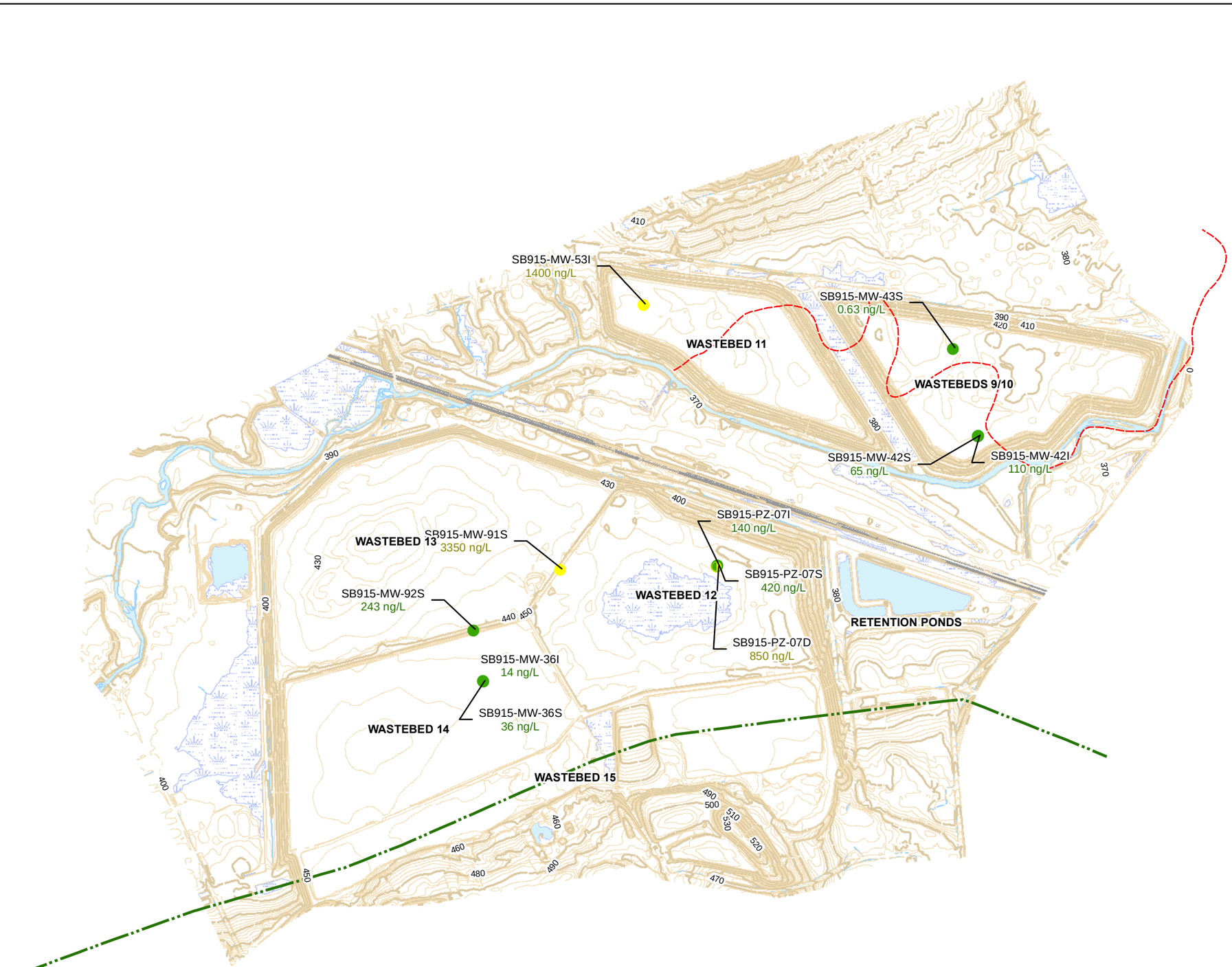

FIGURE K-1.11

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 ng/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

MERCURY
SOLVAY WASTE/
SHALLOW FILL
GROUNDWATER

0 600 1,200 2,400
Feet

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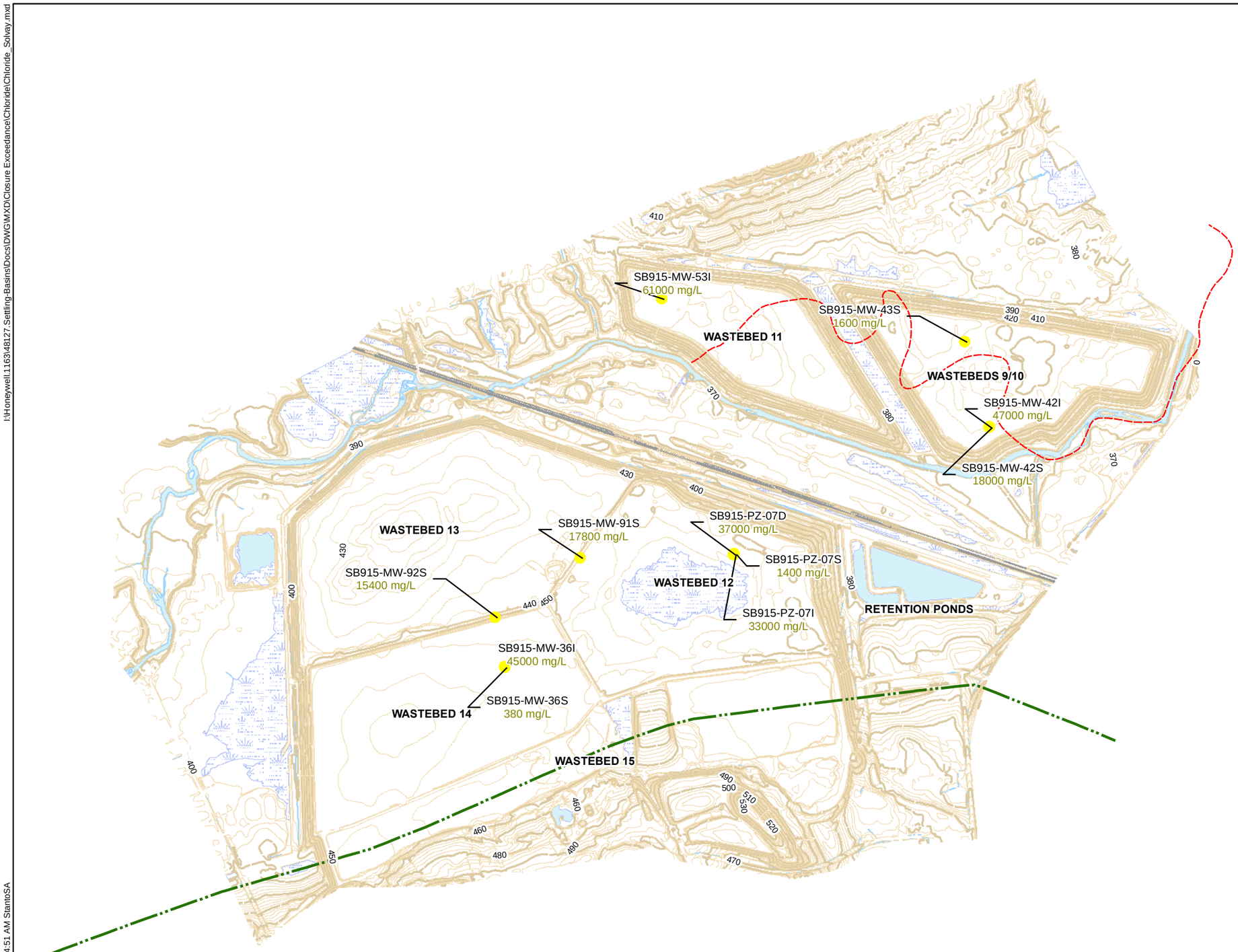
FIGURE K-1.12



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLORIDE
SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

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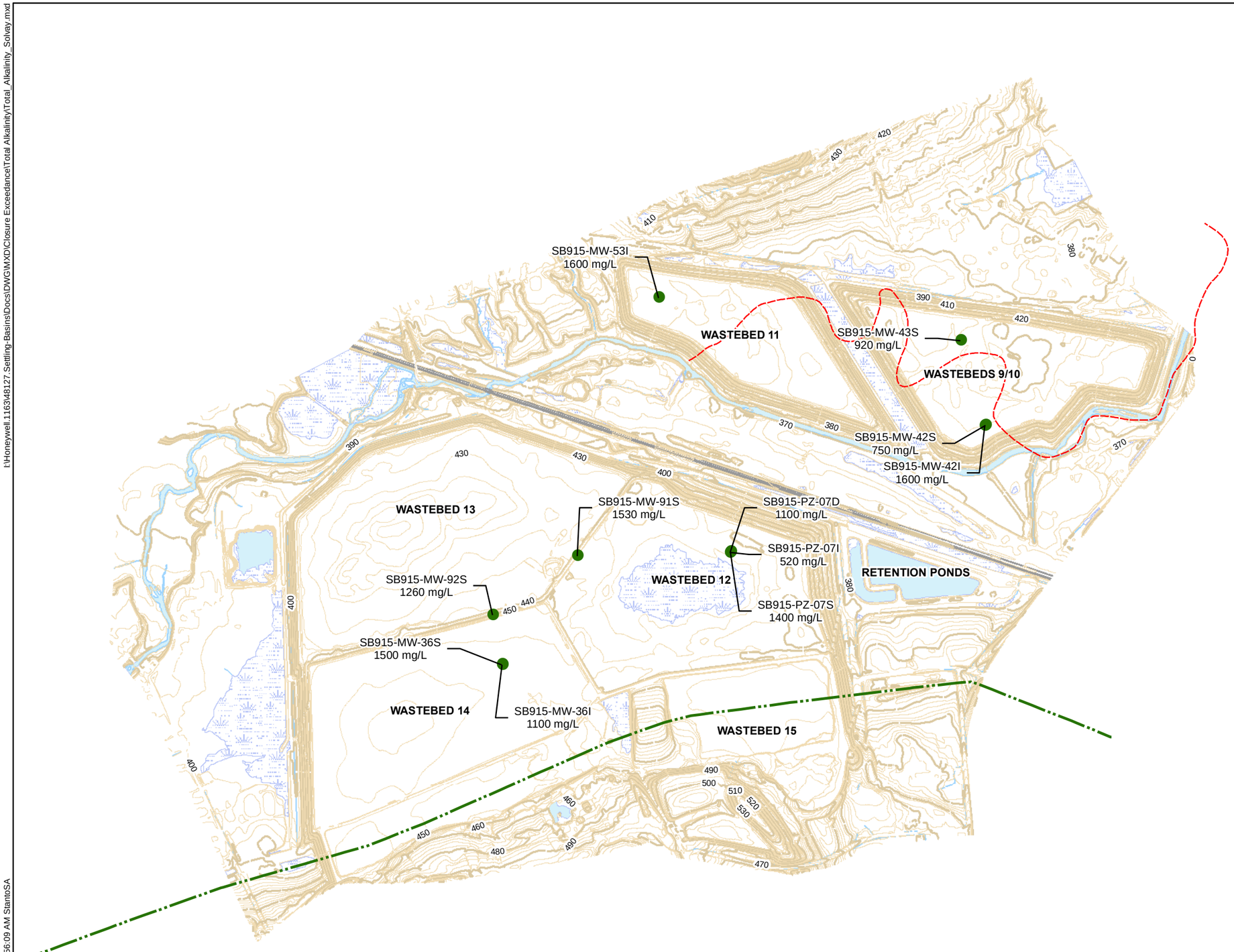
FIGURE K-1.13



N

LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL ALKALINITY SOLVAY WASTE/ SHALLOW FILL GROUNDWATER

0 600 1,200 2,400
Feet

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Appendix K-2

Shallow Native Groundwater

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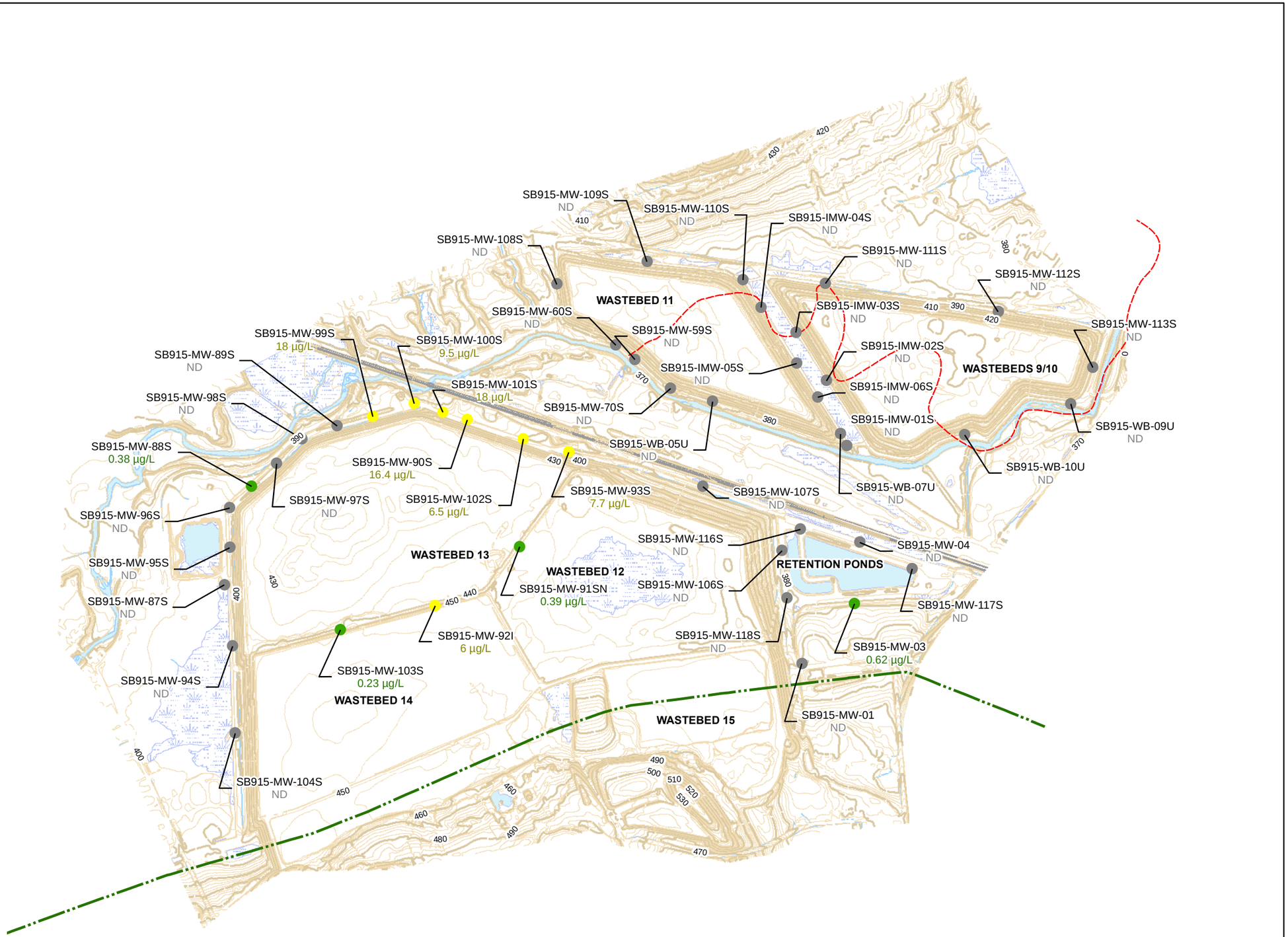
FIGURE K-2.1



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1, 2 - DICHLOROBENZENE SHALLOW NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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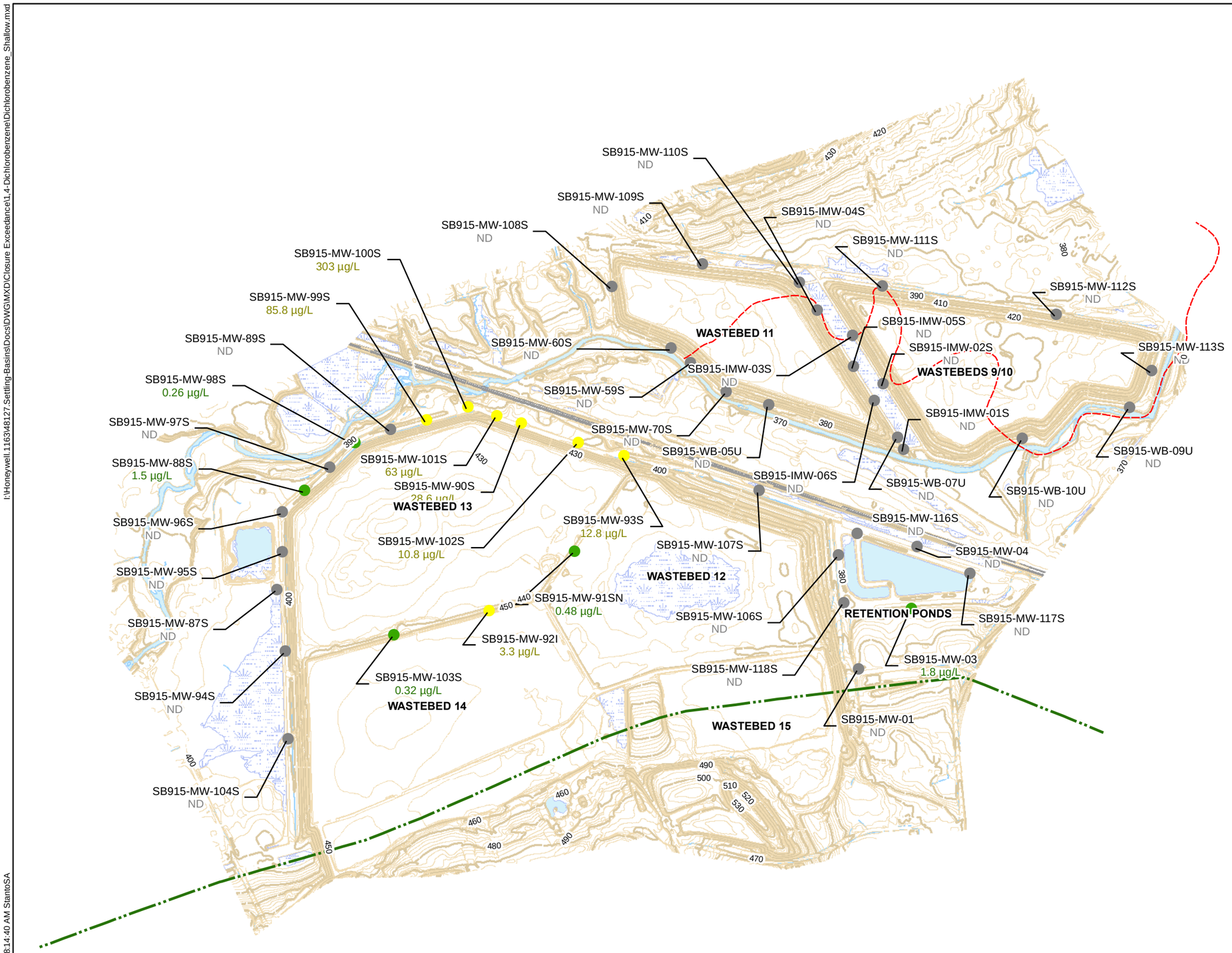
FIGURE K-2.2



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1, 4 - DICHLOROBENZENE SHALLOW NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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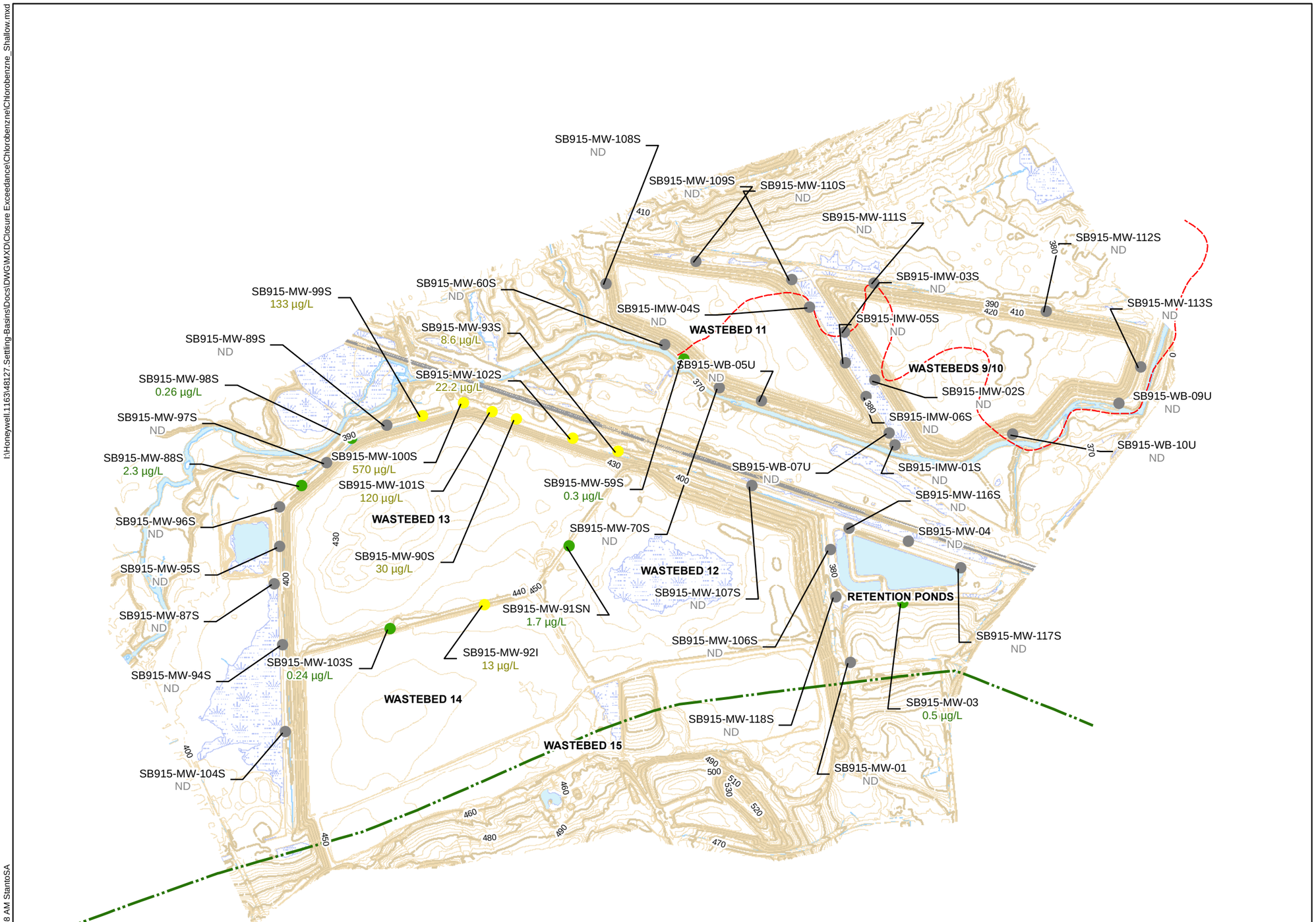
FIGURE K-2.3



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLOROBENZNE SHALLOW NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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FIGURE K-2.4

SB915-MW-90S ND
SB915-MW-101S 1.1 µg/L
SB915-MW-100S 0.37 µg/L
SB915-MW-99S 0.24 µg/L
SB915-MW-89S ND
SB915-MW-98S ND
SB915-MW-97S ND
SB915-MW-88S ND
SB915-MW-96S ND
SB915-MW-95S ND
SB915-MW-87S ND
SB915-MW-94S ND
SB915-MW-104S ND
SB915-MW-108S ND
SB915-MW-109S ND
SB915-MW-110S ND
SB915-IMW-04S ND
SB915-MW-111S ND
SB915-IMW-03S ND
SB915-MW-112S ND
SB915-IMW-02S ND
SB915-MW-113S ND
SB915-WB-09U ND
SB915-IMW-06S ND
SB915-IMW-01S ND
SB915-WB-10U ND
SB915-MW-04 ND
SB915-MW-117S ND
SB915-MW-03 ND
SB915-MW-01 ND
SB915-MW-118S ND
SB915-MW-106S ND
SB915-MW-116S ND
SB915-MW-107S ND
SB915-WB-07U ND
SB915-WB-05U ND
SB915-IMW-05S ND
SB915-MW-60S ND
SB915-MW-59S ND
SB915-MW-70S ND
SB915-MW-102S ND
SB915-MW-93S ND
SB915-MW-91SN ND
SB915-MW-92I ND
SB915-MW-103S ND
WASTEBED 11
WASTEBEDS 9/10
WASTEBED 12
WASTEBED 13
WASTEBED 14
WASTEBED 15
RETENTION PONDS

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CIS - 1,2 - DICHLOROETHENE SHALLOW NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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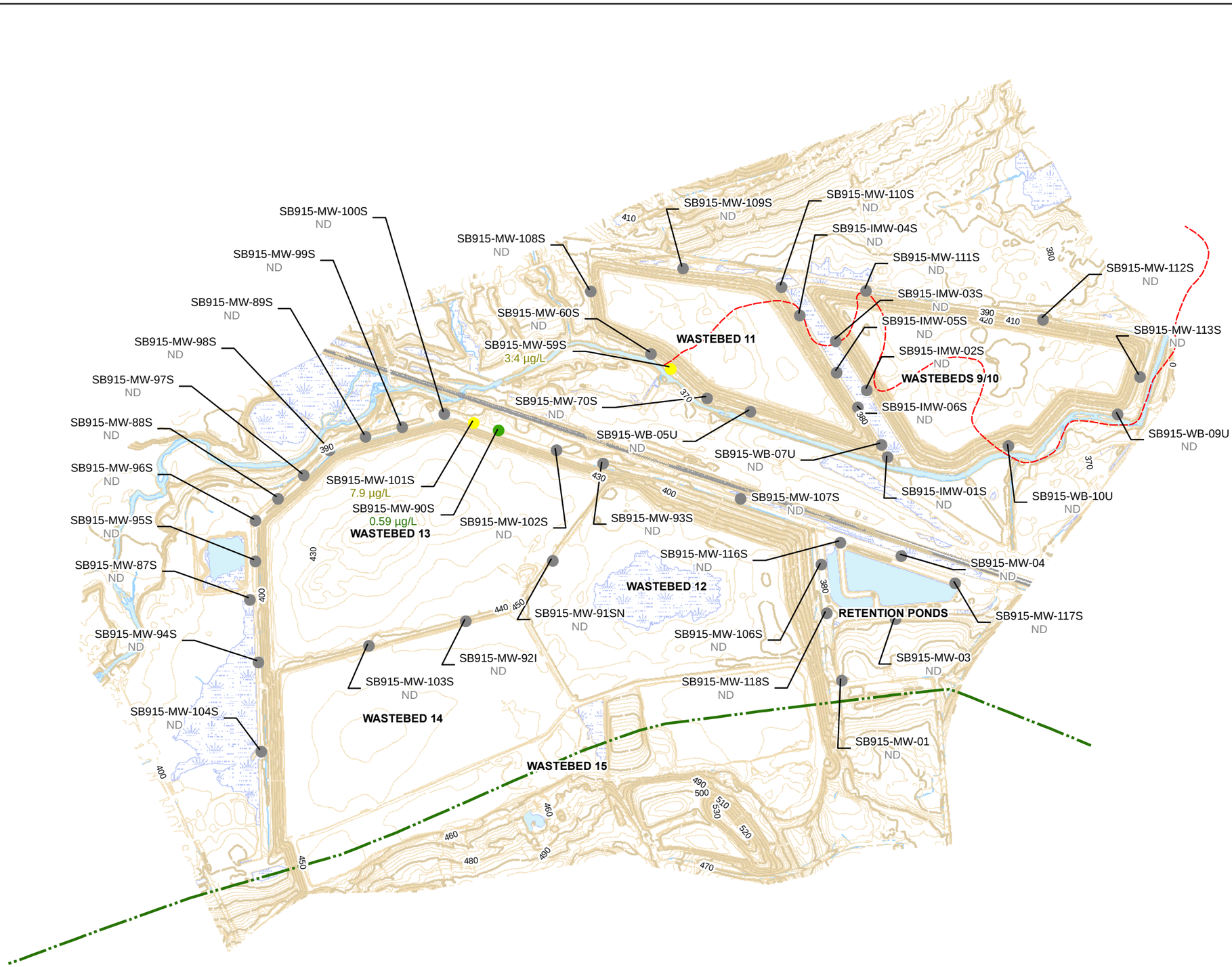
FIGURE K-2.5



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1,2 - DICHLOROETHANE SHALLOW NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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FIGURE K-2.6

SB915-MW-110S
ND

SB915-MW-109S
30 µg/L

SB915-MW-100S
ND

SB915-MW-108S
ND

SB915-MW-99S
ND

SB915-MW-89S
ND

SB915-MW-98S
ND

SB915-MW-97S
ND

SB915-MW-88S
ND

SB915-MW-96S
ND

SB915-MW-95S
ND

SB915-MW-87S
ND

SB915-MW-103S
3.6 µg/L

SB915-MW-91SN
3.2 µg/L

SB915-MW-92I
40 µg/L

SB915-MW-94S
ND

SB915-MW-104S
2.7 µg/L

SB915-MW-101S
14.4 µg/L

SB915-MW-90S
ND

SB915-MW-102S
ND

SB915-MW-59S
ND

SB915-MW-60S
ND

SB915-MW-70S
ND

SB915-WB-05U
20 µg/L

SB915-MW-93S
ND

SB915-MW-116S
ND

SB915-MW-106S
ND

SB915-MW-118S
ND

SB915-IMW-04S
ND

SB915-IMW-03S
17 µg/L

SB915-MW-111S
ND

SB915-IMW-02S
3.7 µg/L

SB915-IMW-05S
21 µg/L

SB915-IMW-06S
32 µg/L

SB915-WB-07U
ND

SB915-MW-107S
ND

SB915-IMW-01S
ND

SB915-MW-04
3.1 µg/L

SB915-MW-112S
2.5 µg/L

SB915-MW-113S
23 µg/L

SB915-WB-09U
4.9 µg/L

SB915-WB-10U
53 µg/L

SB915-MW-117S
ND

SB915-MW-03
ND

SB915-MW-01
ND

WASTEBED 11

WASTEBED 12

WASTEBED 13

WASTEBED 14

WASTEBED 15

WASTEBEDS 9/10

RETENTION PONDS

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

ACETONE
SHALLOW NATIVE
GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

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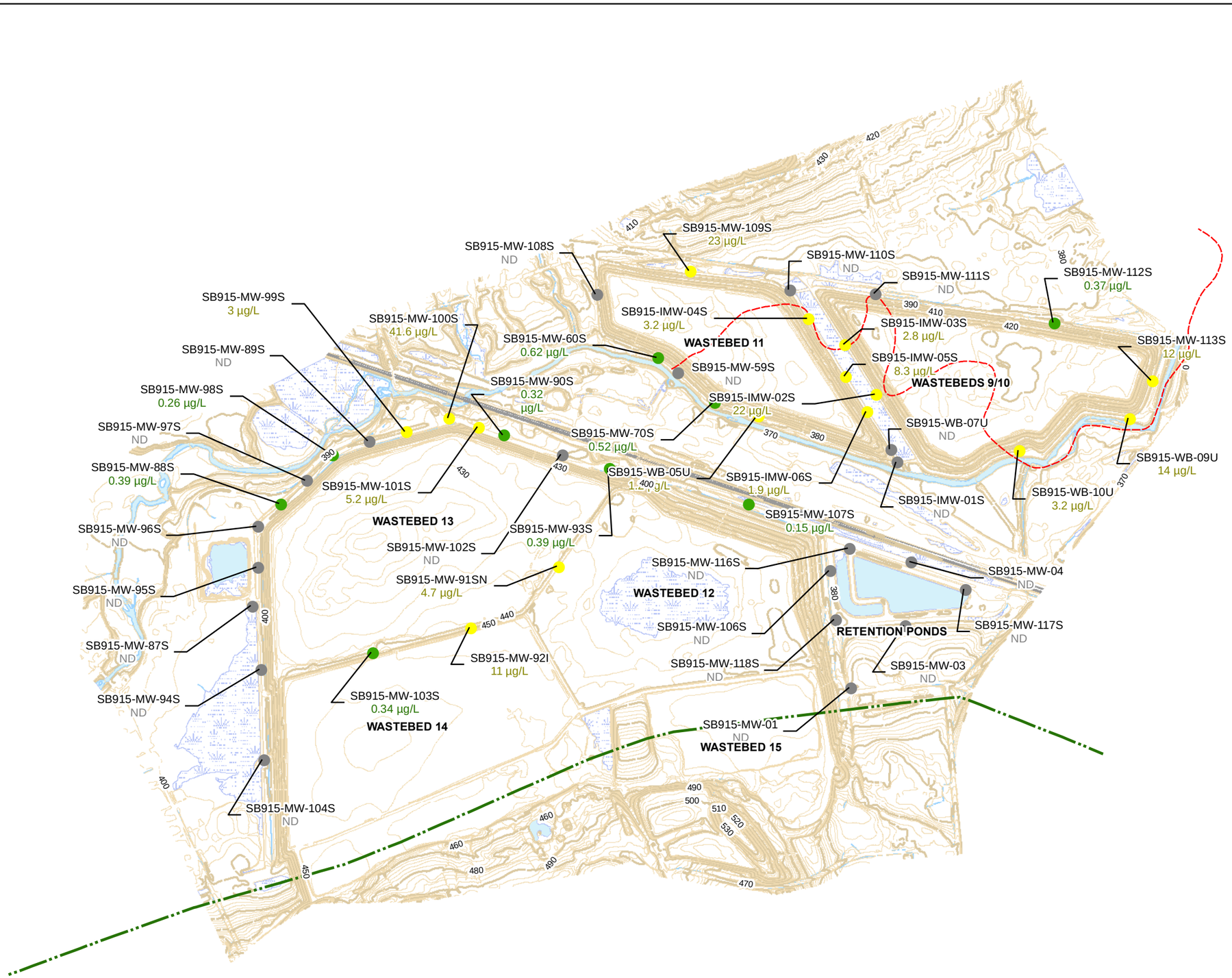

PLOTDATE: 10/01/13 8:43:07 AM StantoSA

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FIGURE K-2.7

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

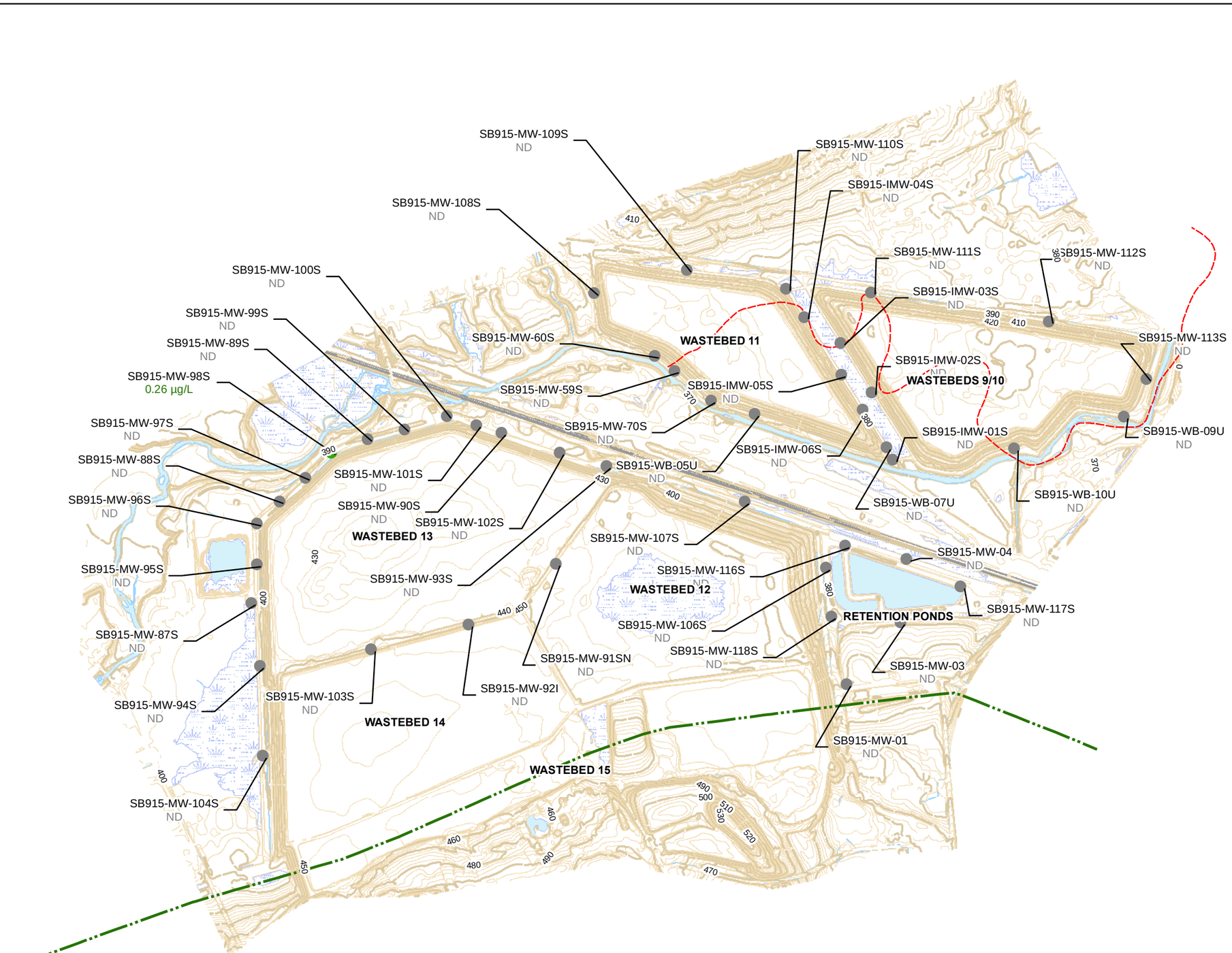
BENZENE SHALLOW NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

FIGURE K-2.8



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

ETHYLBENZENE SHALLOW NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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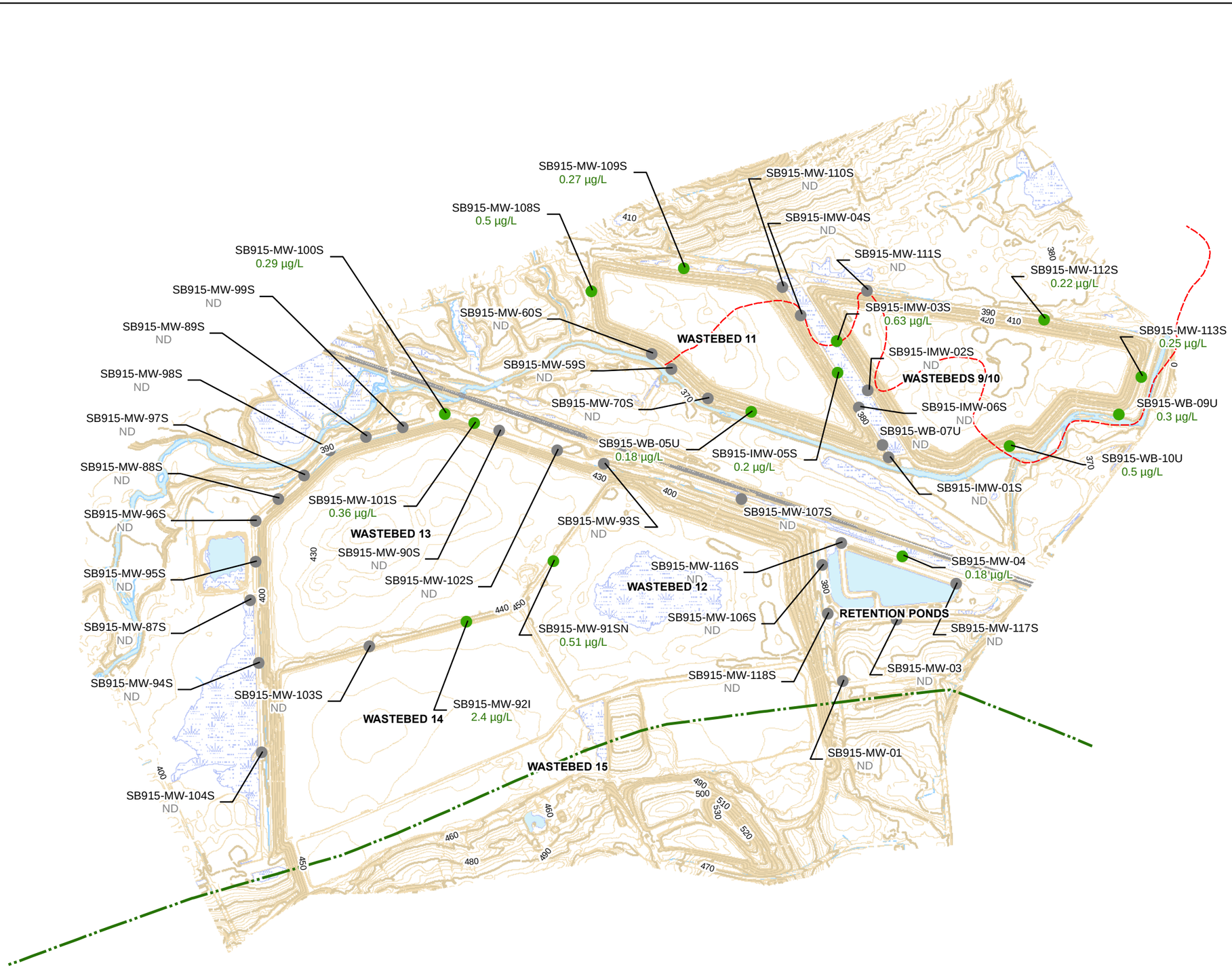
FIGURE K-2.9



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOLUENE
SHALLOW NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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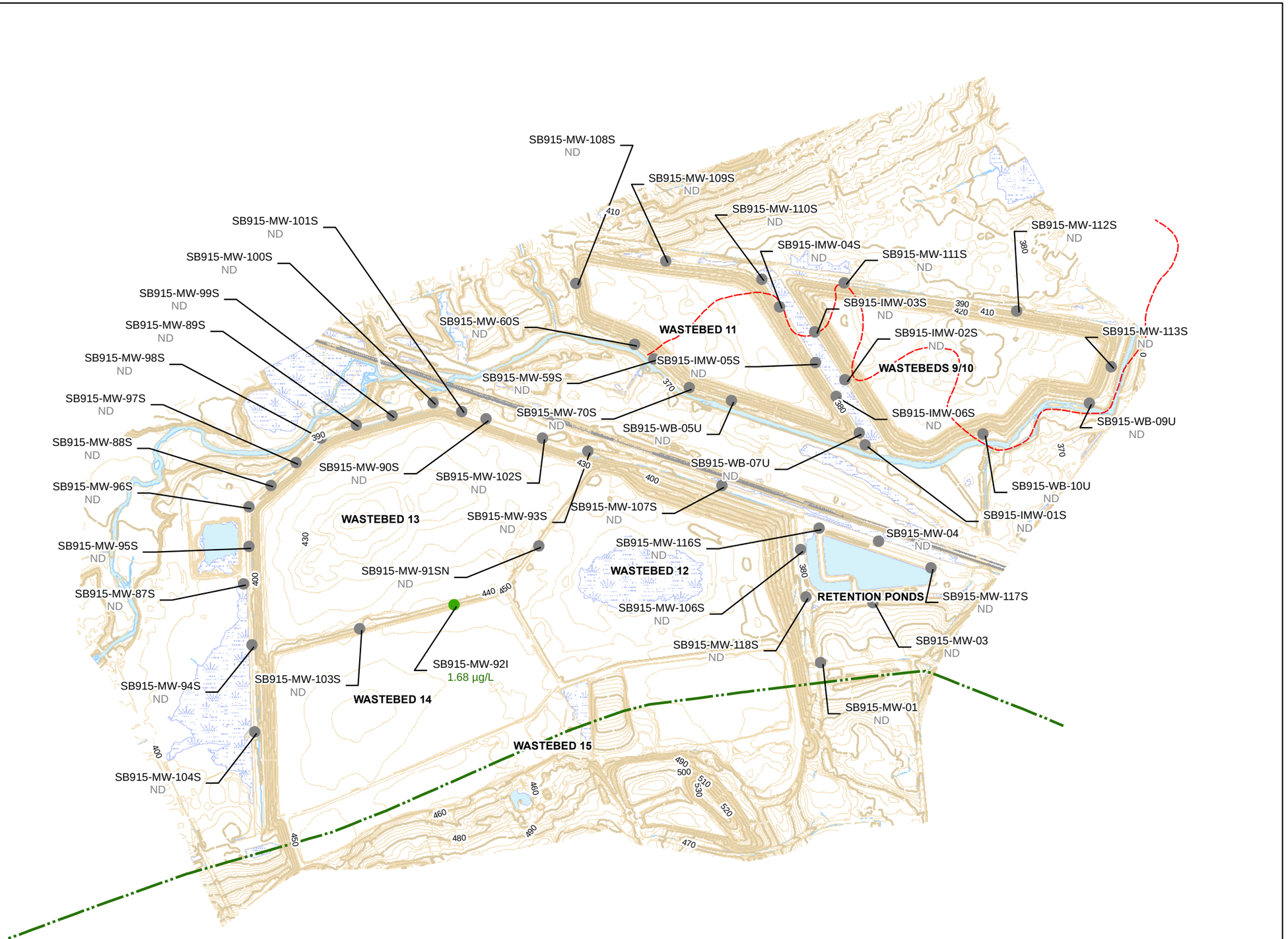

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FIGURE K-2.10

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL XYLENES SHALLOW NATIVE GROUNDWATER

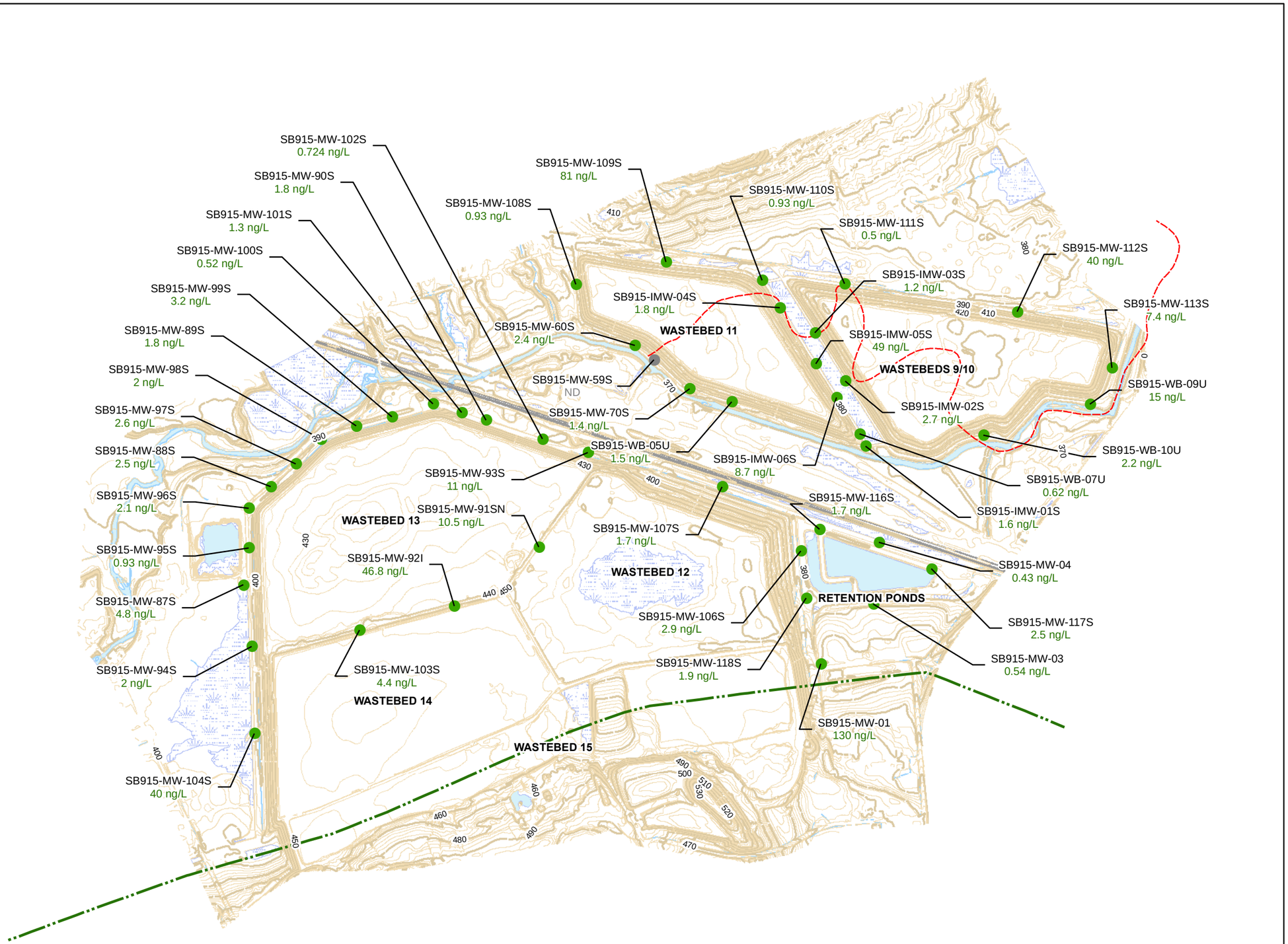
0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\Mercury\Mercury_Shallow.mxd

FIGURE K-2.11



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 ng/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

MERCURY SHALLOW NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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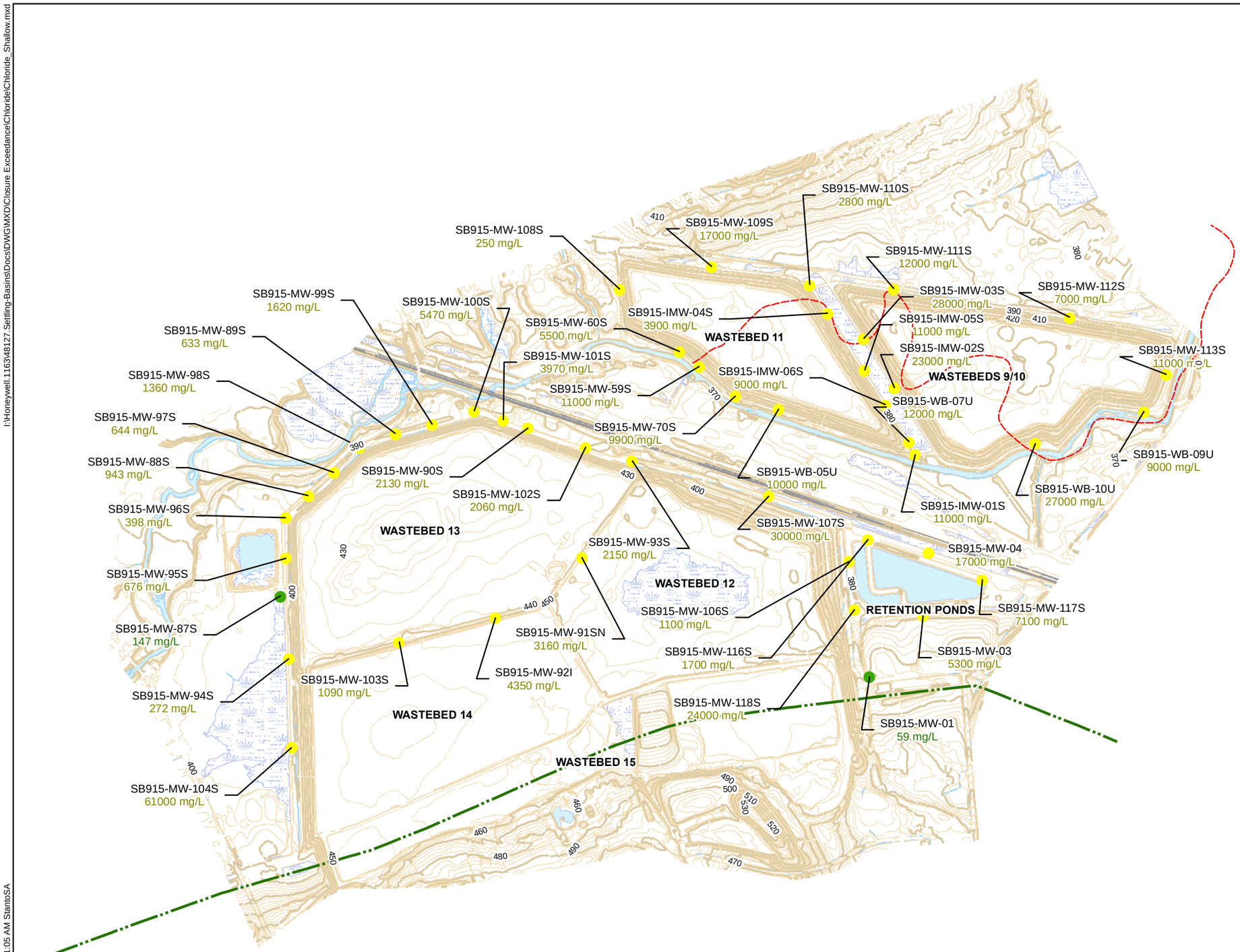
FIGURE K-2.12



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLORIDE
SHALLOW NATIVE
GROUNDWATER

0 600 1,200 2,400
Feet

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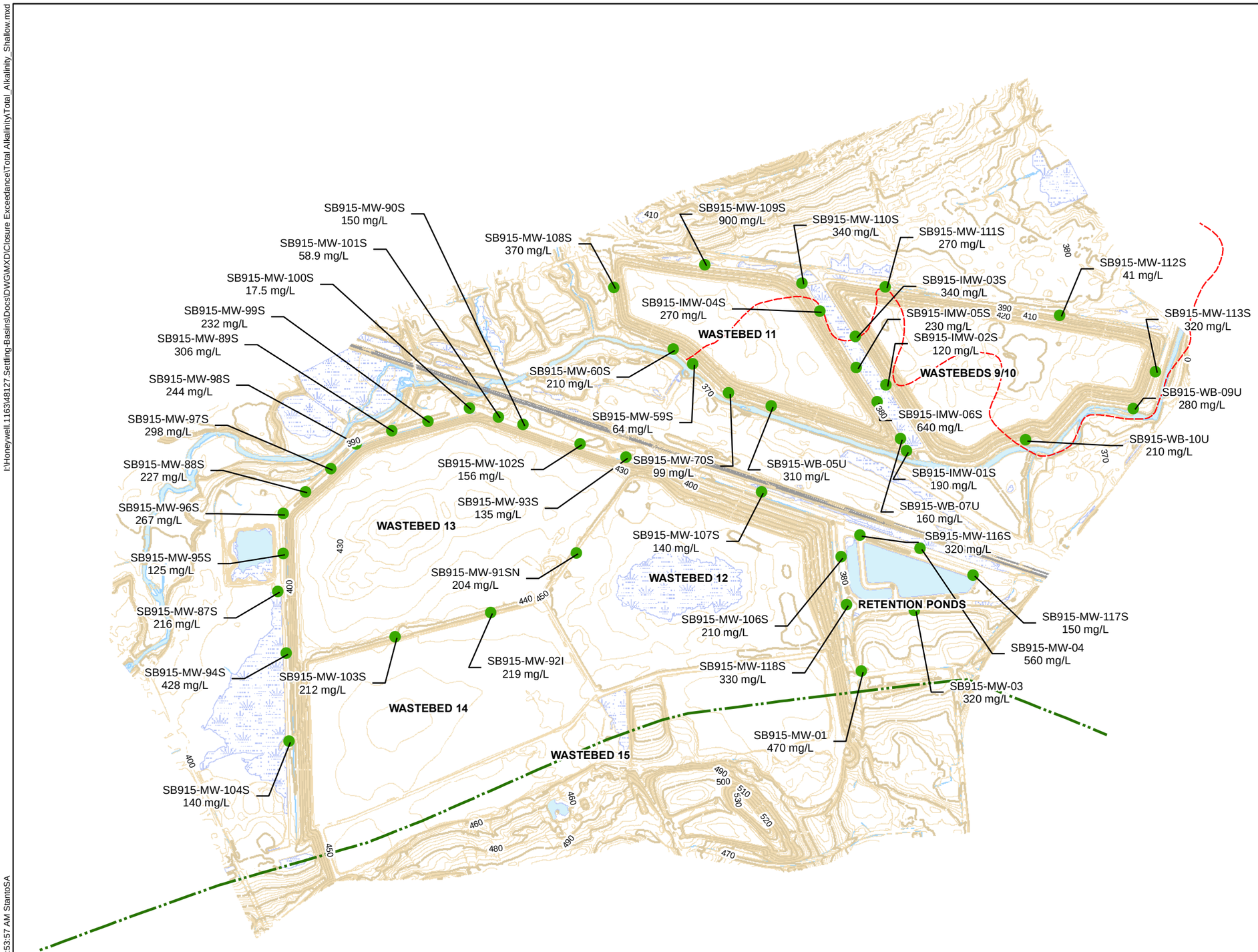
FIGURE K-2.13



LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL ALKALINITY SHALLOW NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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Appendix K-3

Intermediate Native Groundwater

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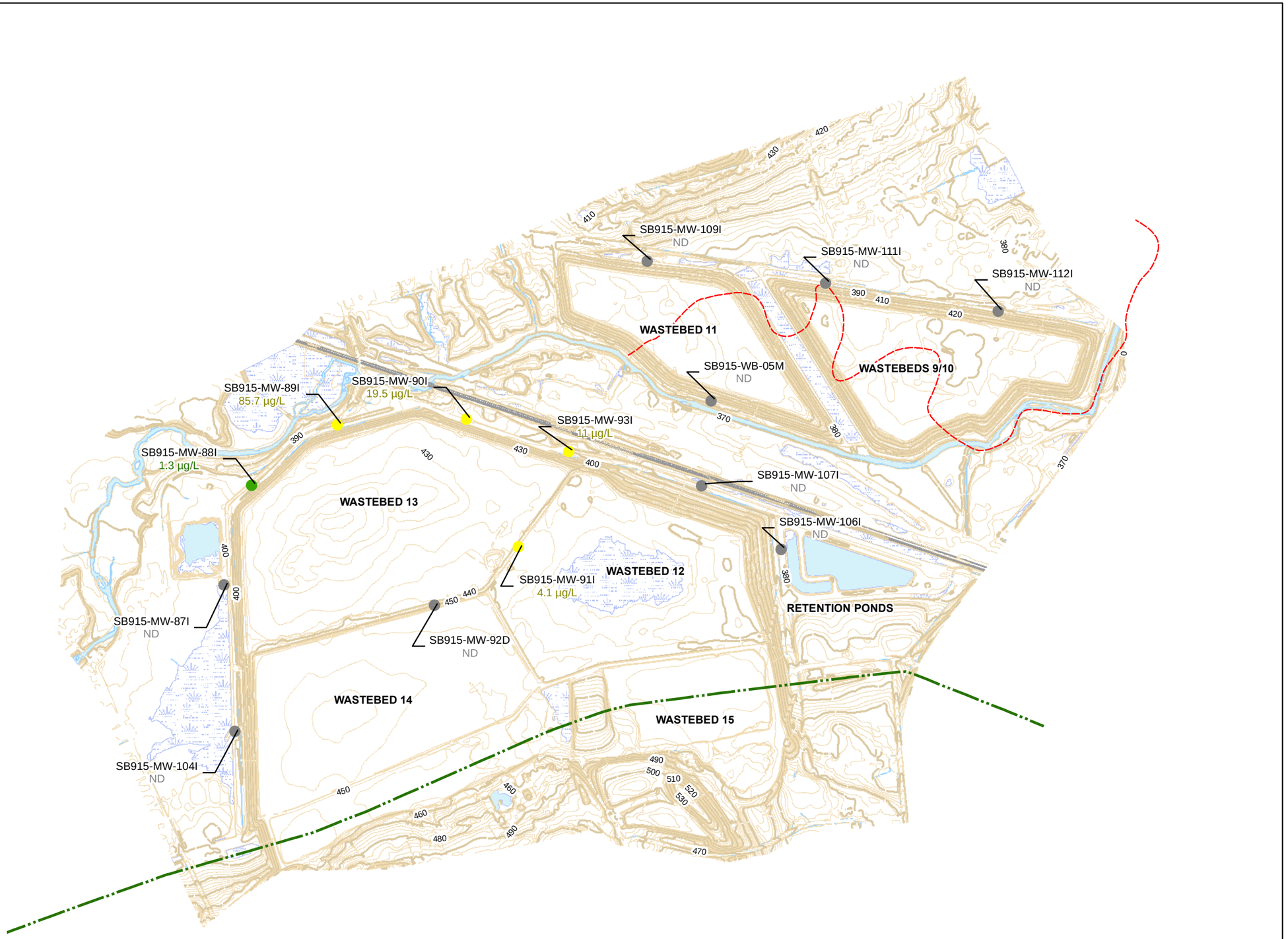

FIGURE K-3.1

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1, 2 - DICHLOROBENZENE INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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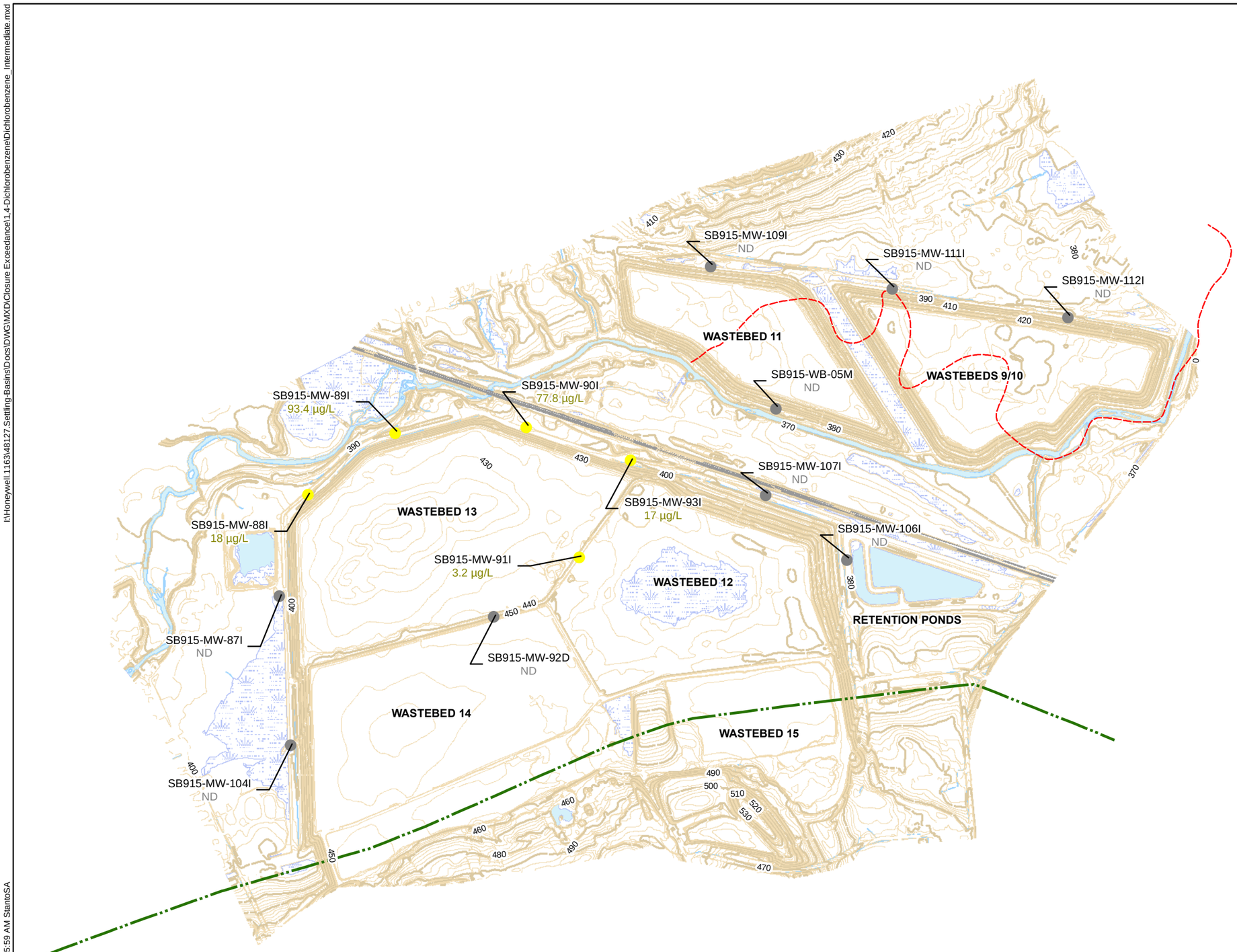
FIGURE K-3.2



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1, 4 - DICHLOROBENZENE INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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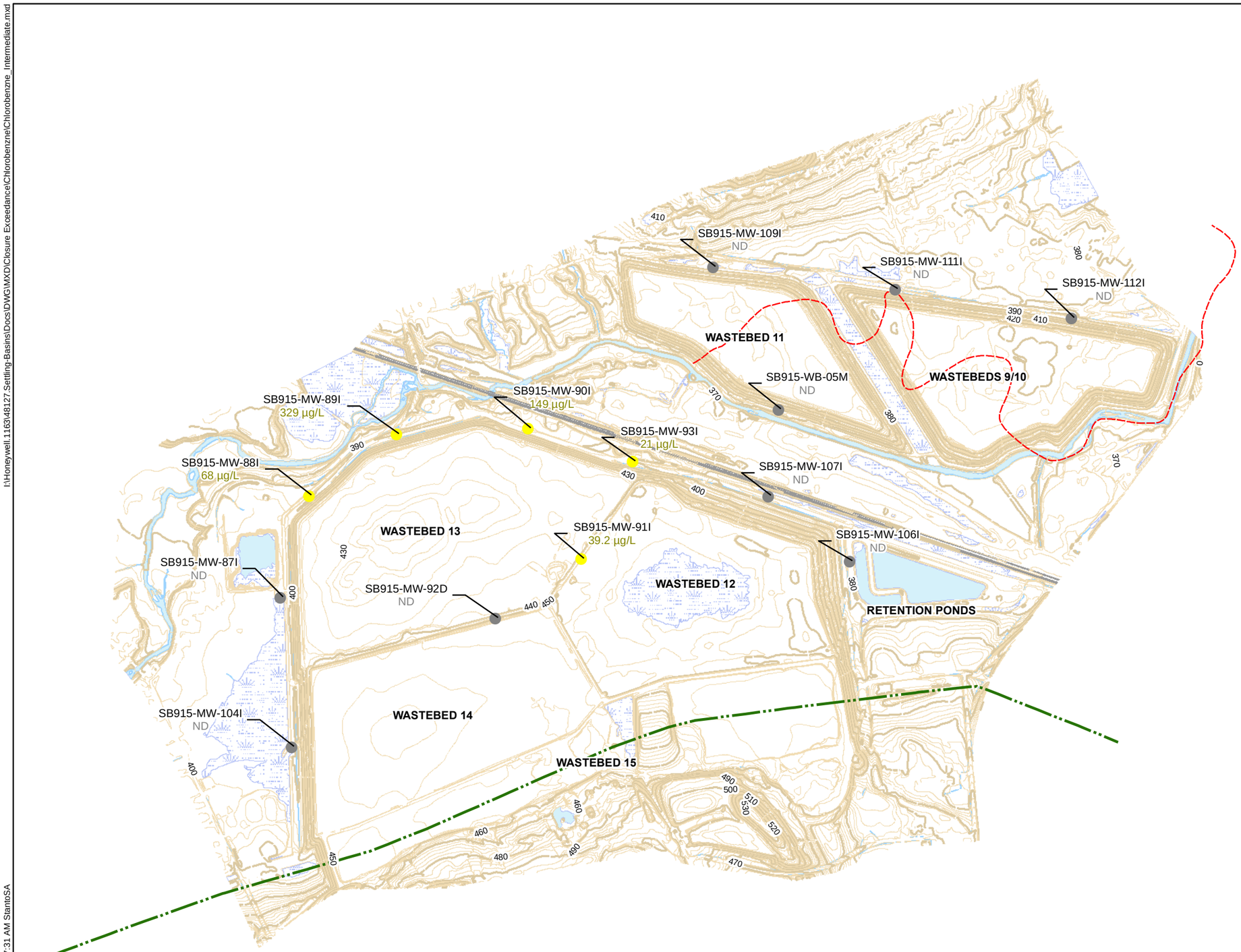
FIGURE K-3.3



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLOROBENZNE INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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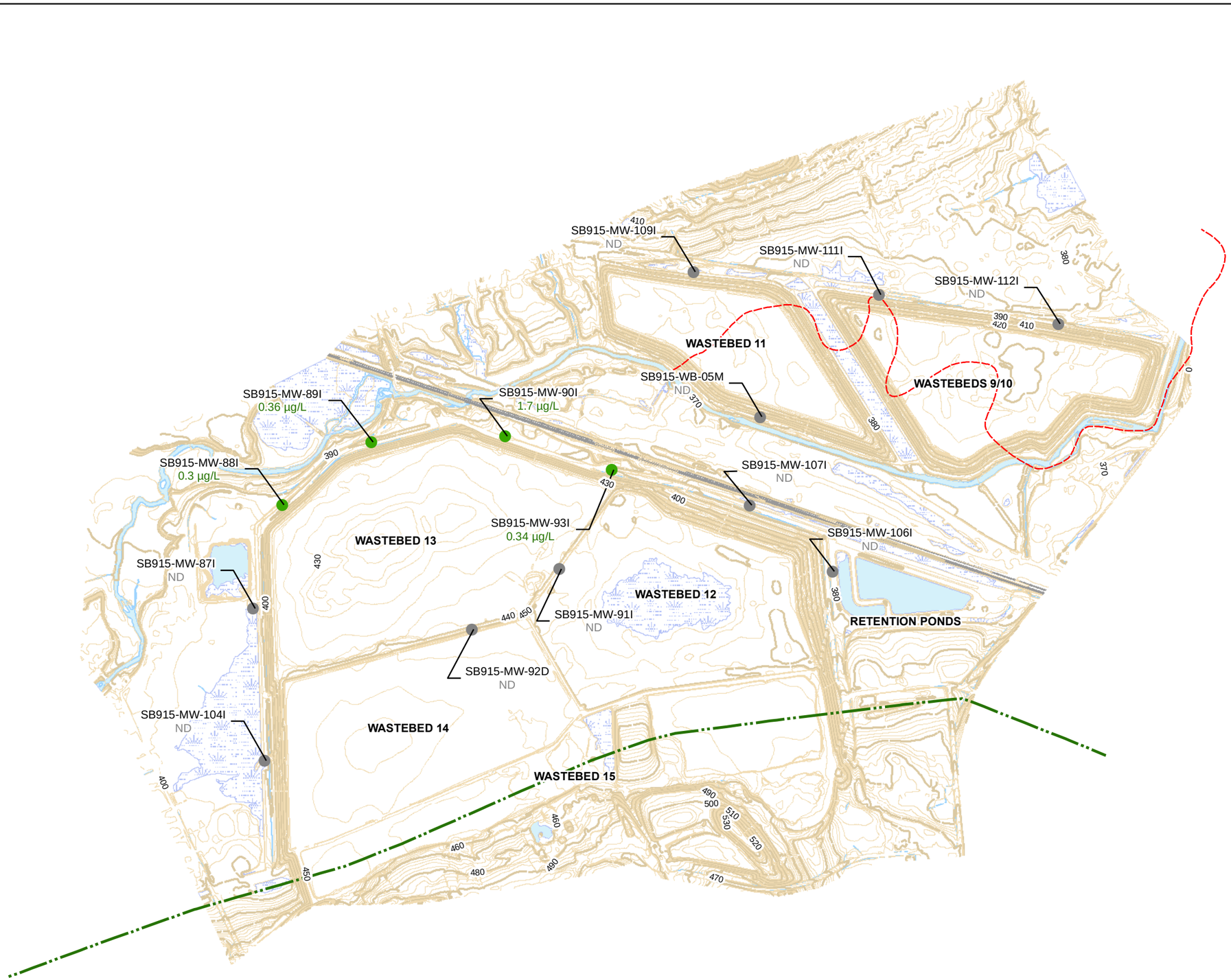

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FIGURE K-3.4

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CIS - 1,2 - DICHLOROETHENE INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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1163.48127

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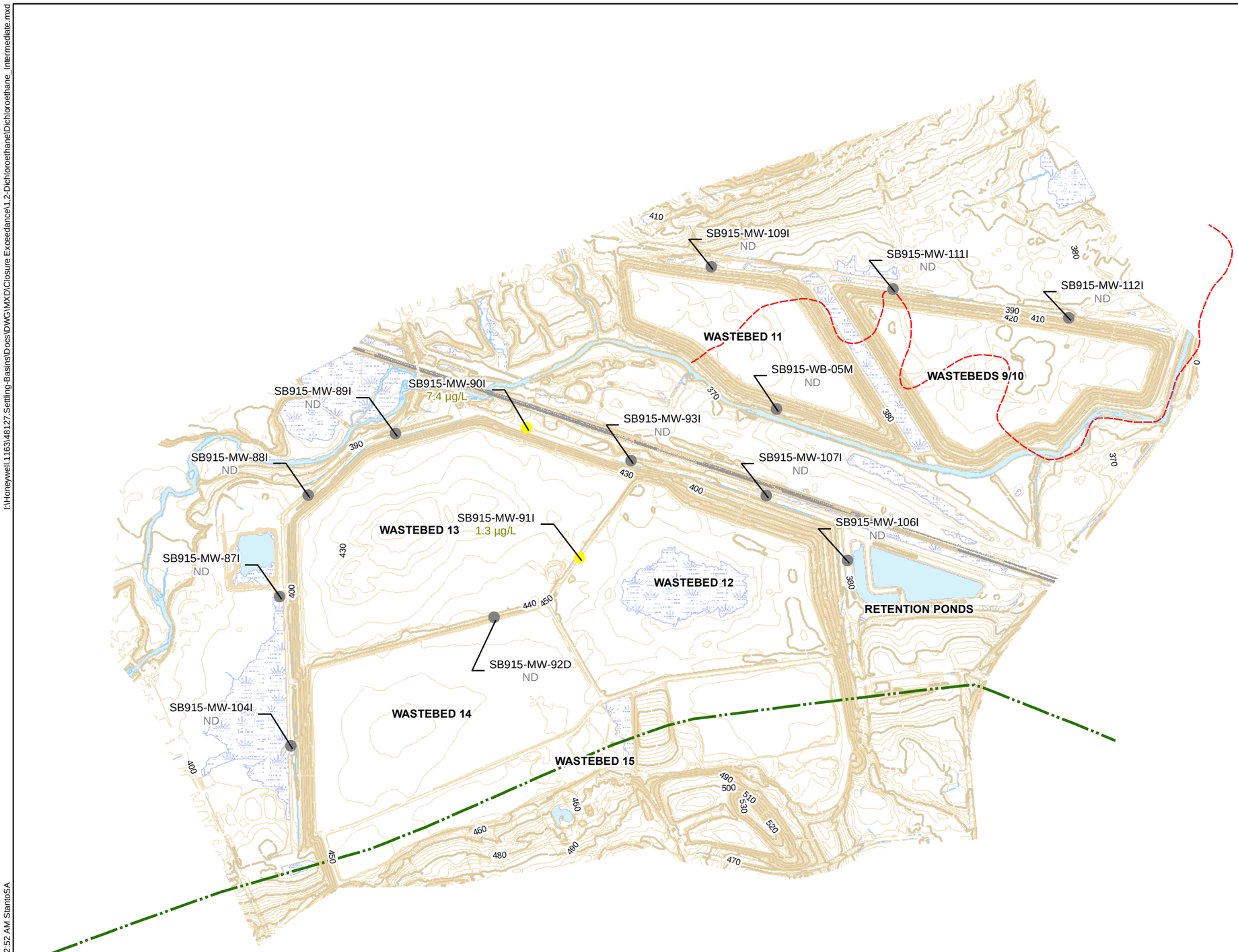
FIGURE K-3.5



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1,2 - DICHLOROETHANE INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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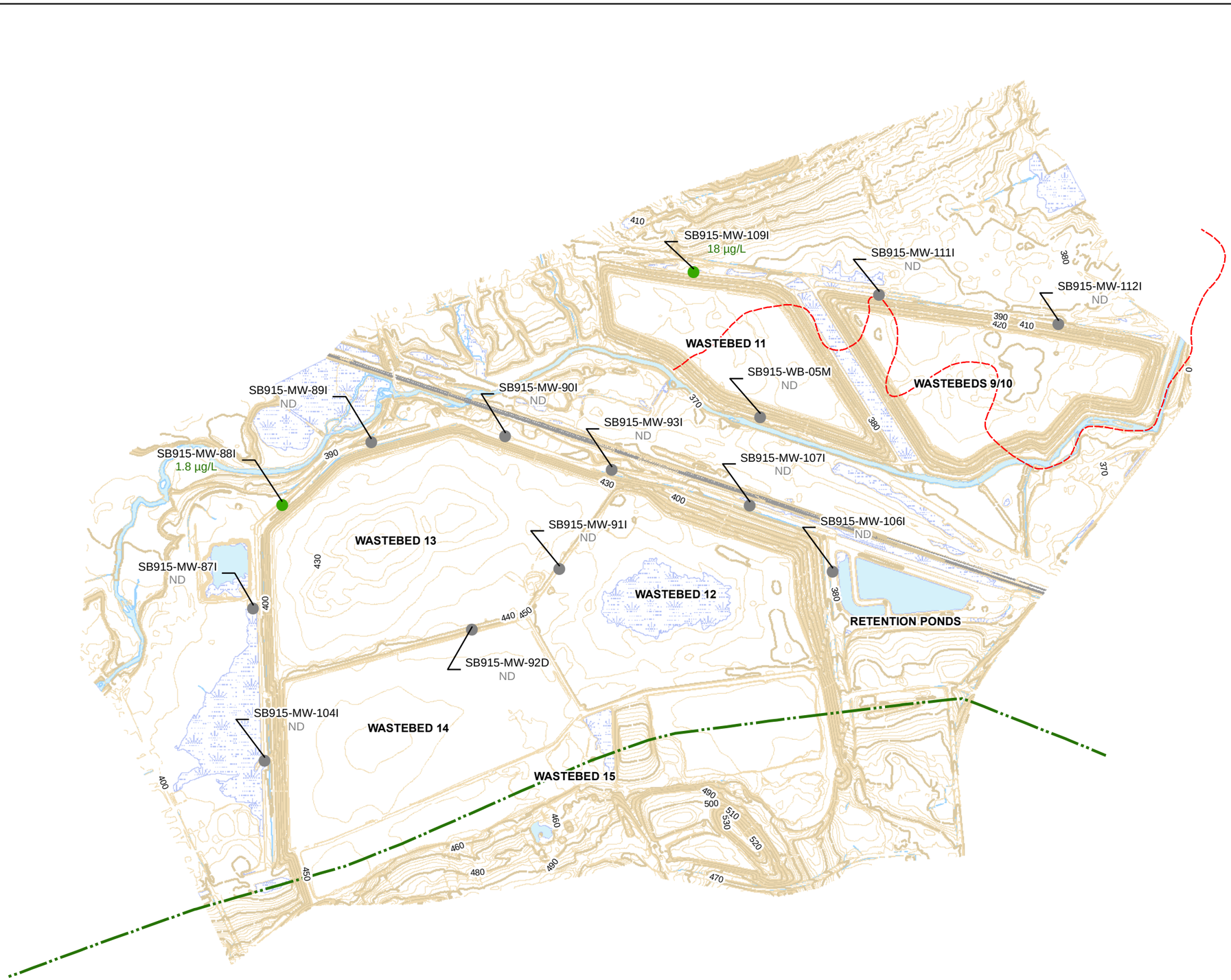

FIGURE K-3.6

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

ACETONE INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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1163.48127

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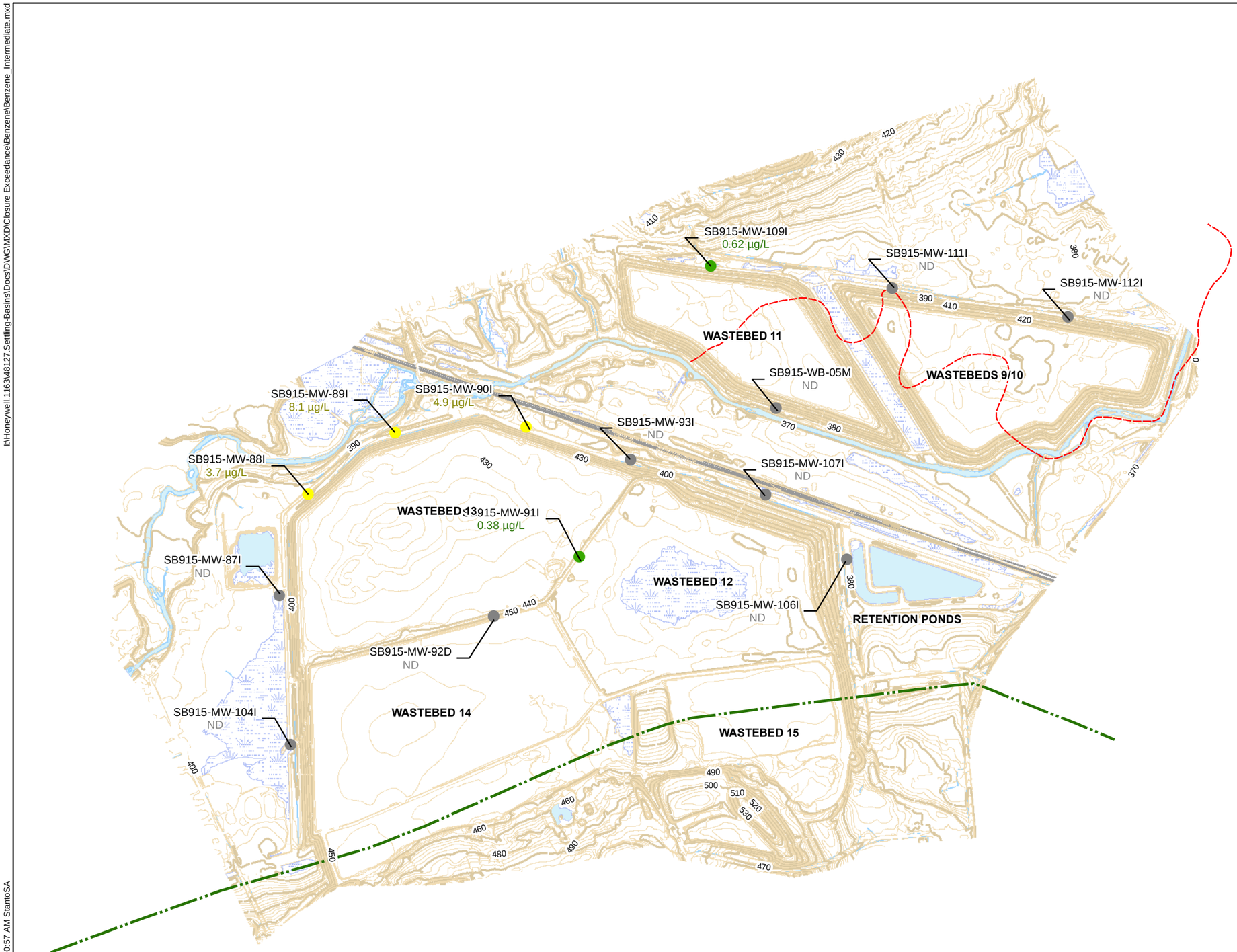
FIGURE K-3.7



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

BENZENE INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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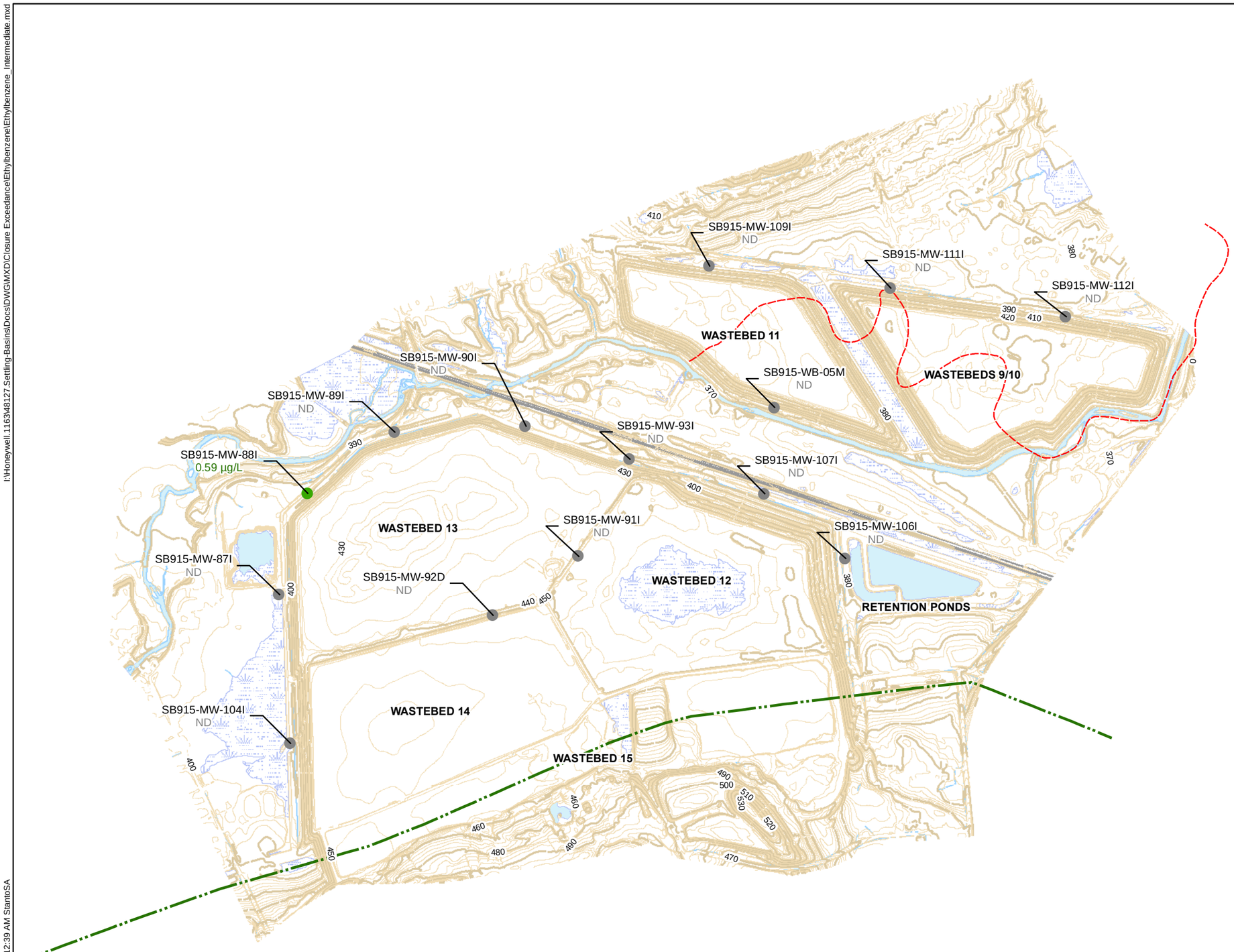
FIGURE K-3.8



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

ETHYLBENZENE INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

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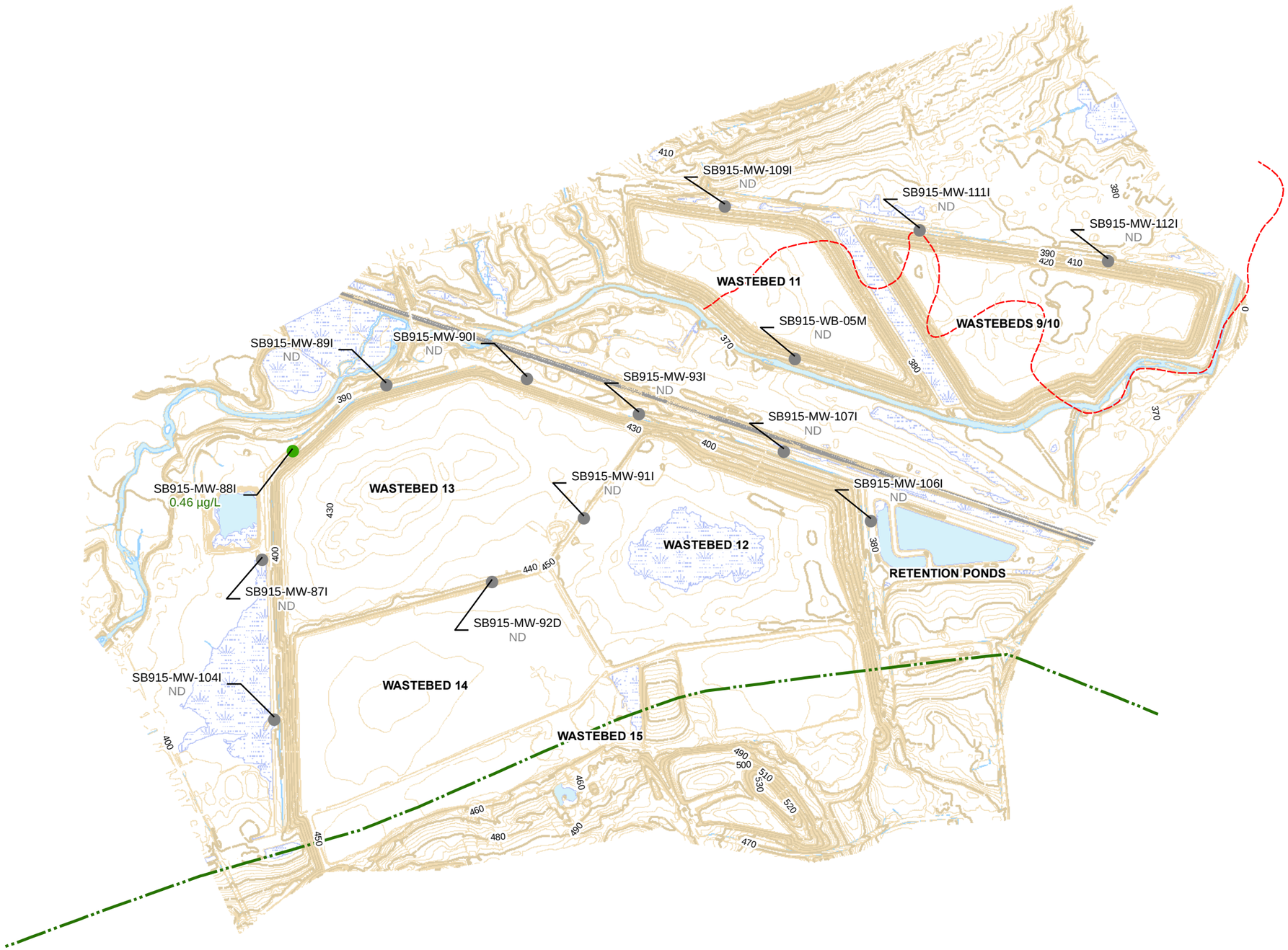

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FIGURE K-3.9

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

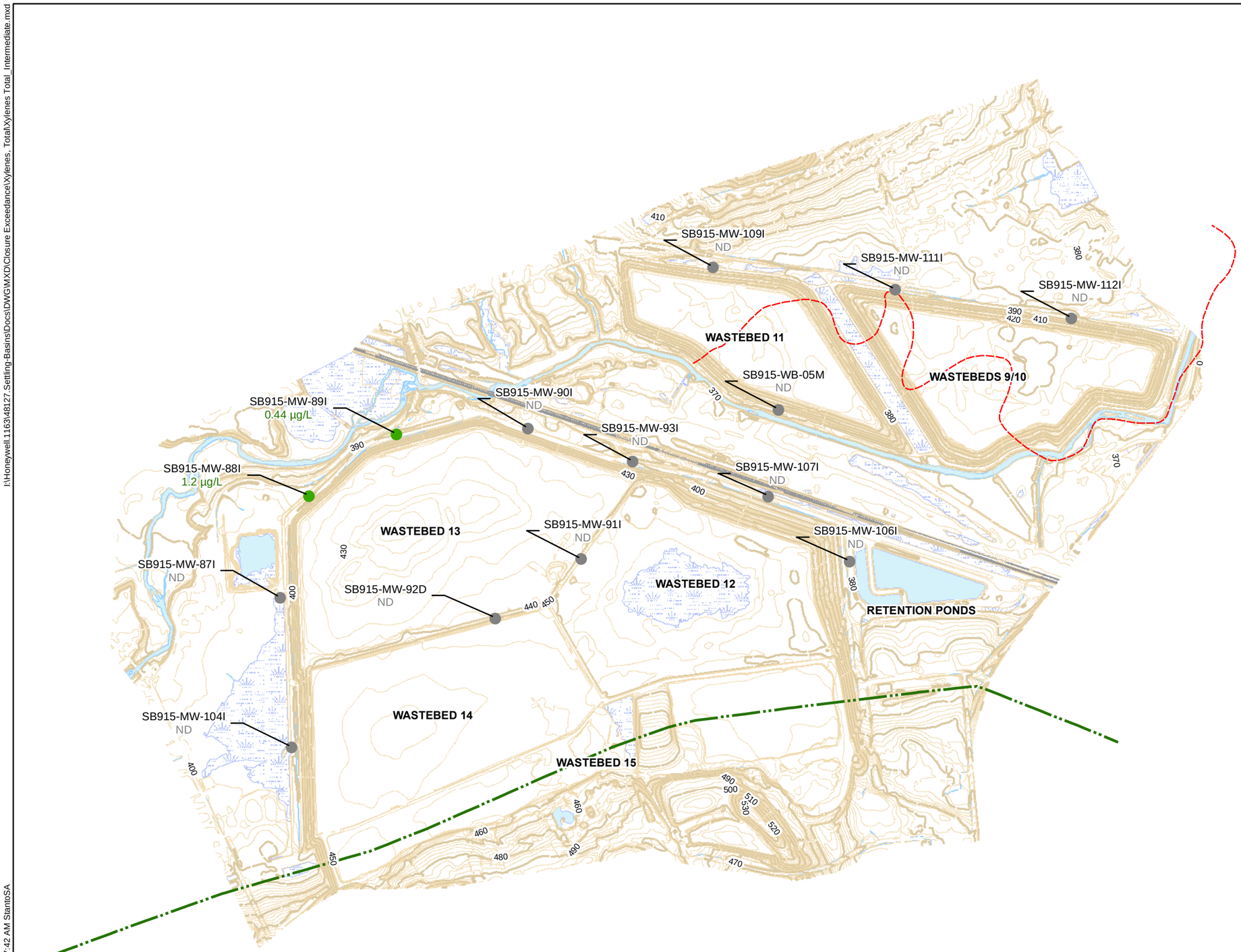
TOLUENE INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

FIGURE K-3.10



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL XYLENES INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

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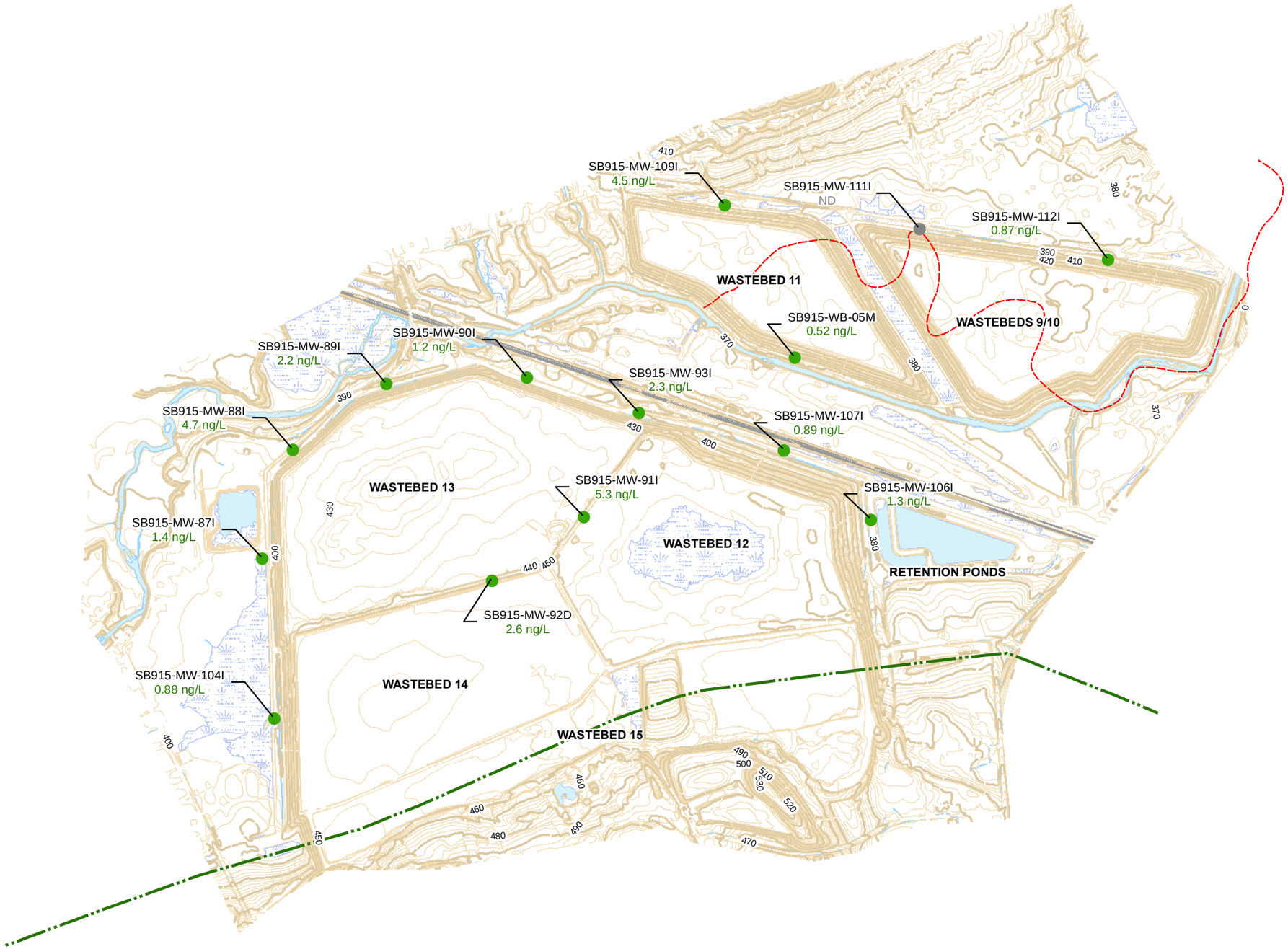

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FIGURE K-3.11

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 ng/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

MERCURY INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

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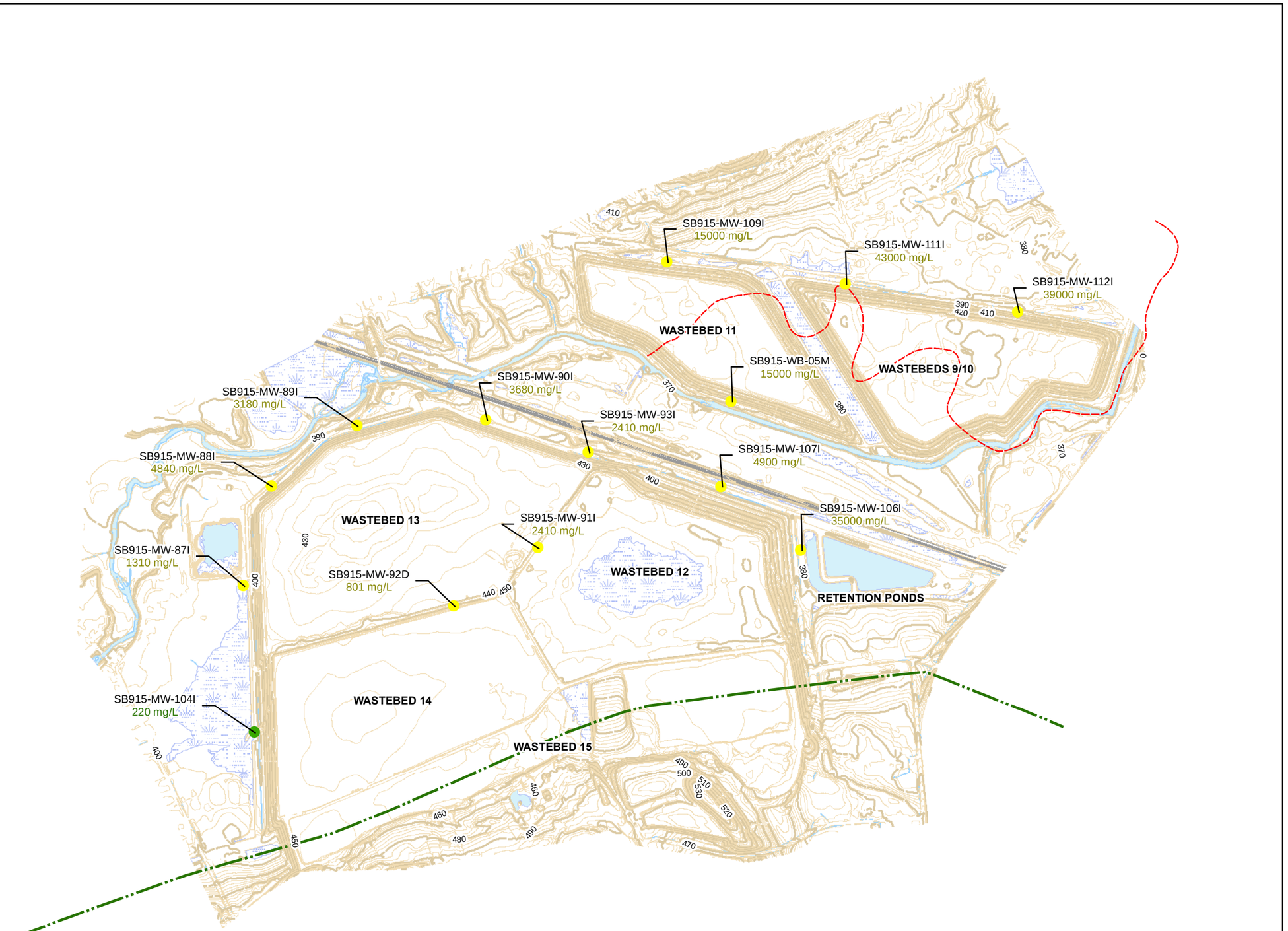
FIGURE K-3.12



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLORIDE INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

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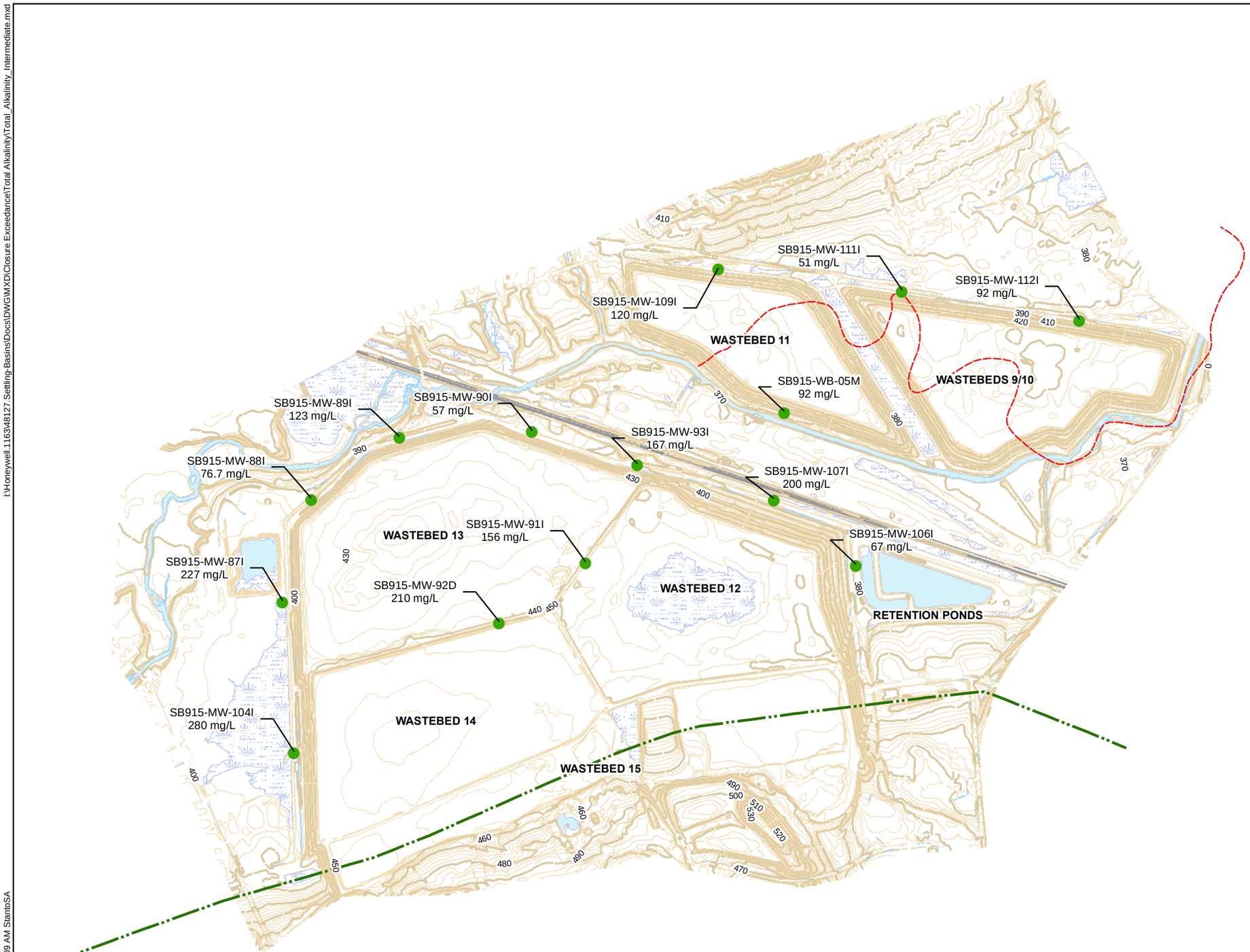
I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\Total Alkalinity\Total_Alkalinity_Intermediate.mxd

FIGURE K-3.13



LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL ALKALINITY INTERMEDIATE NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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1163.48127

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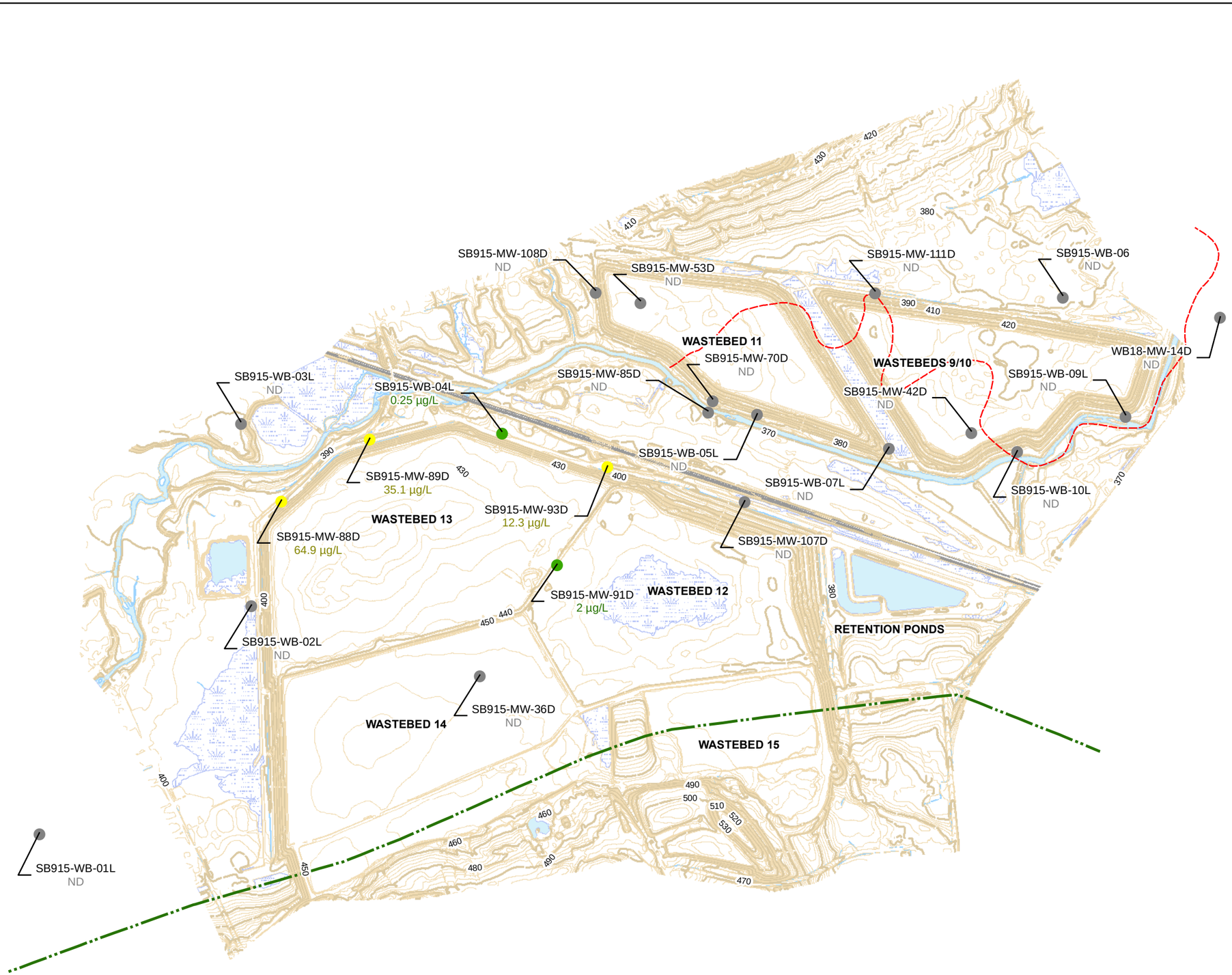
Appendix K-4

Deep Native Groundwater

FIGURE K-4.1



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1, 2 - DICHLOROBENZENE DEEP NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

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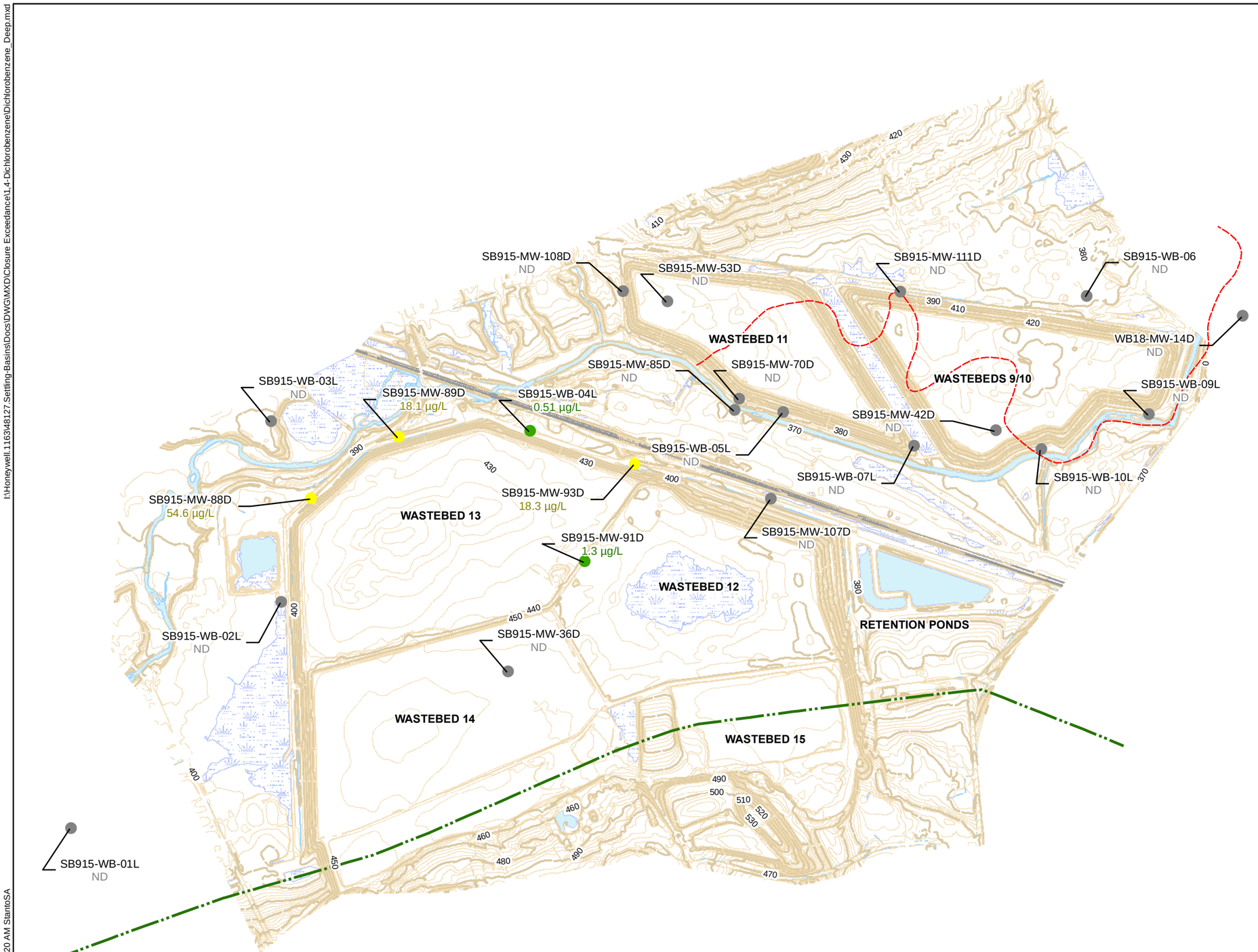
I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\1,2-Dichlorobenzene\Dichlorobenzene_Deep.mxd
PLOTDATE: 10/01/13 9:33:23 AM StantoSA

I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\1,4-Dichlorobenzene\Dichlorobenzene_Deep.mxd

FIGURE K-4.2



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1, 4 - DICHLOROBENZENE DEEP NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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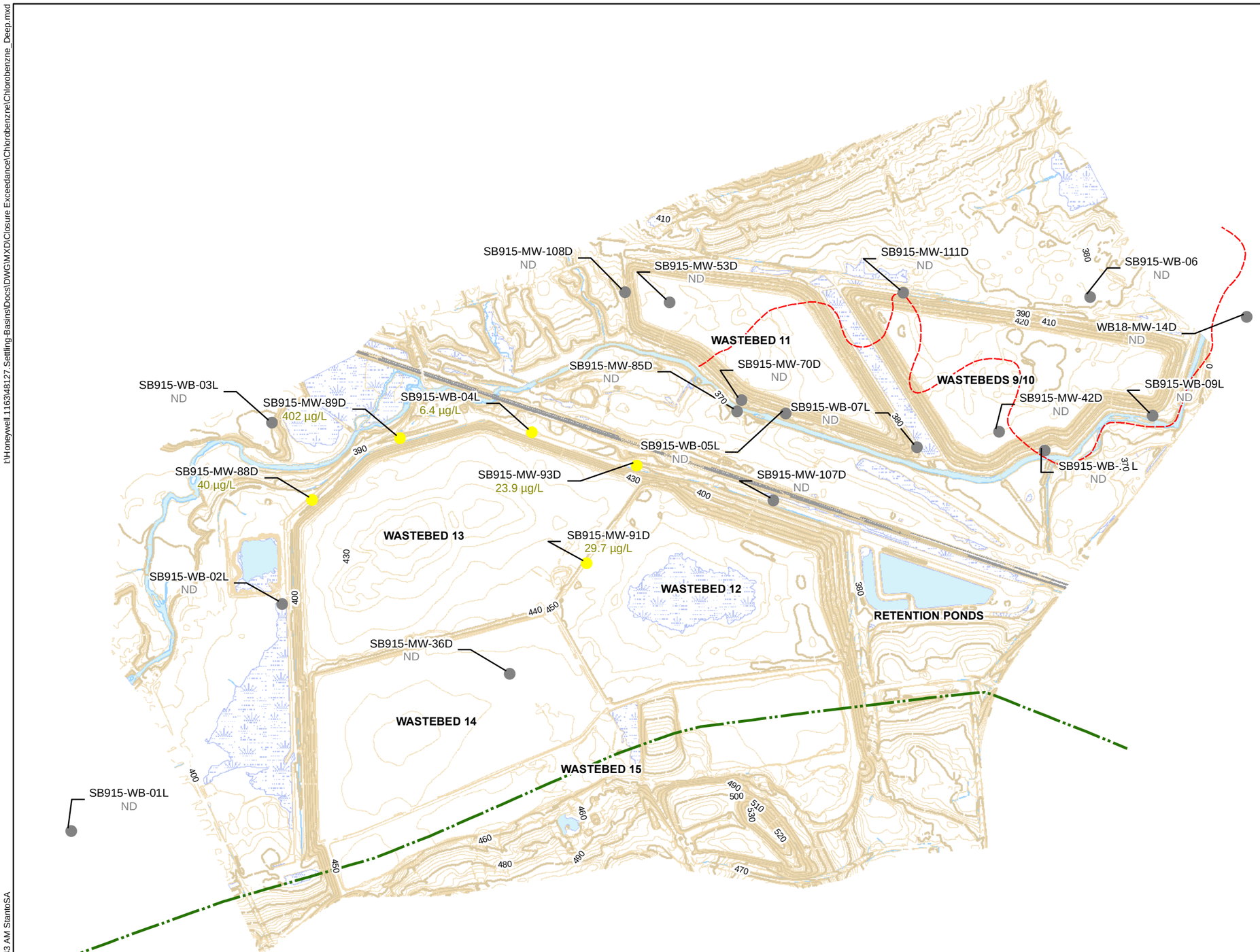
FIGURE K-4.3



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLOROBENZNE DEEP NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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I:\Honeywell.116348127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\Chlorobenznel\Chlorobenzne_Deep.mxd
PLOTDATE: 10/01/13 9:27:43 AM StantoSA

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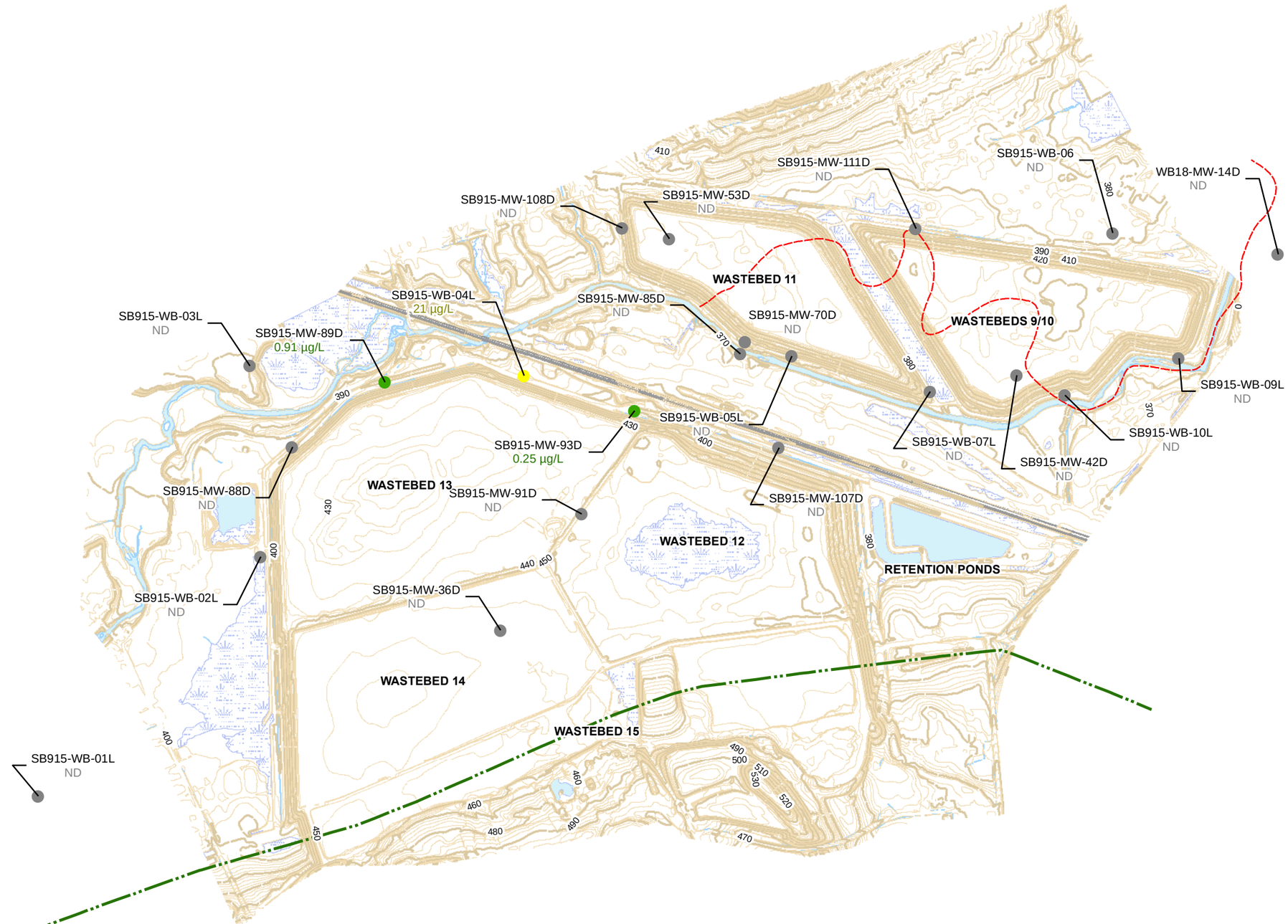

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FIGURE K-4.4

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

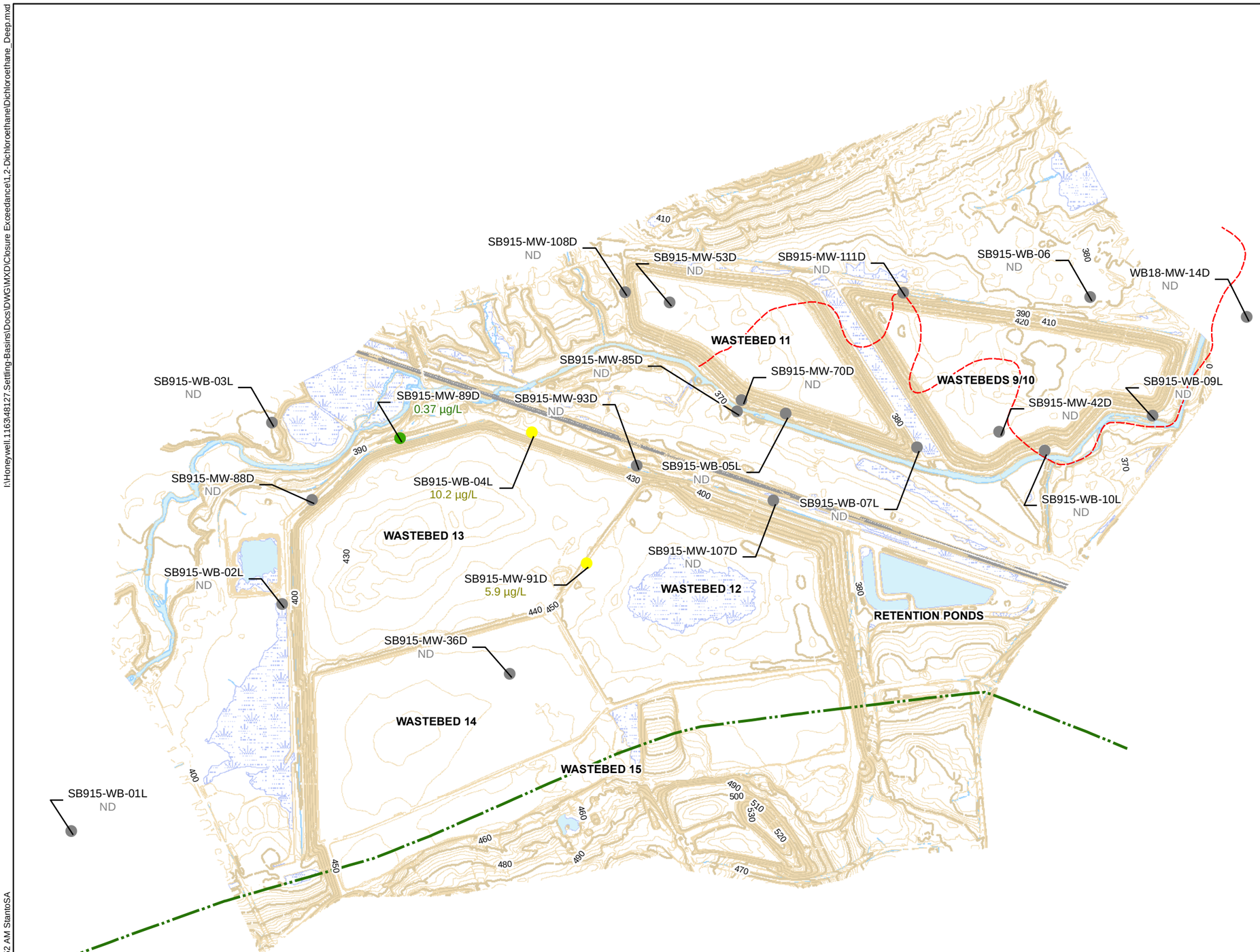
CIS - 1,2 - DICHLOROETHENE DEEP NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

FIGURE K-4.5



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1,2 - DICHLOROETHANE DEEP NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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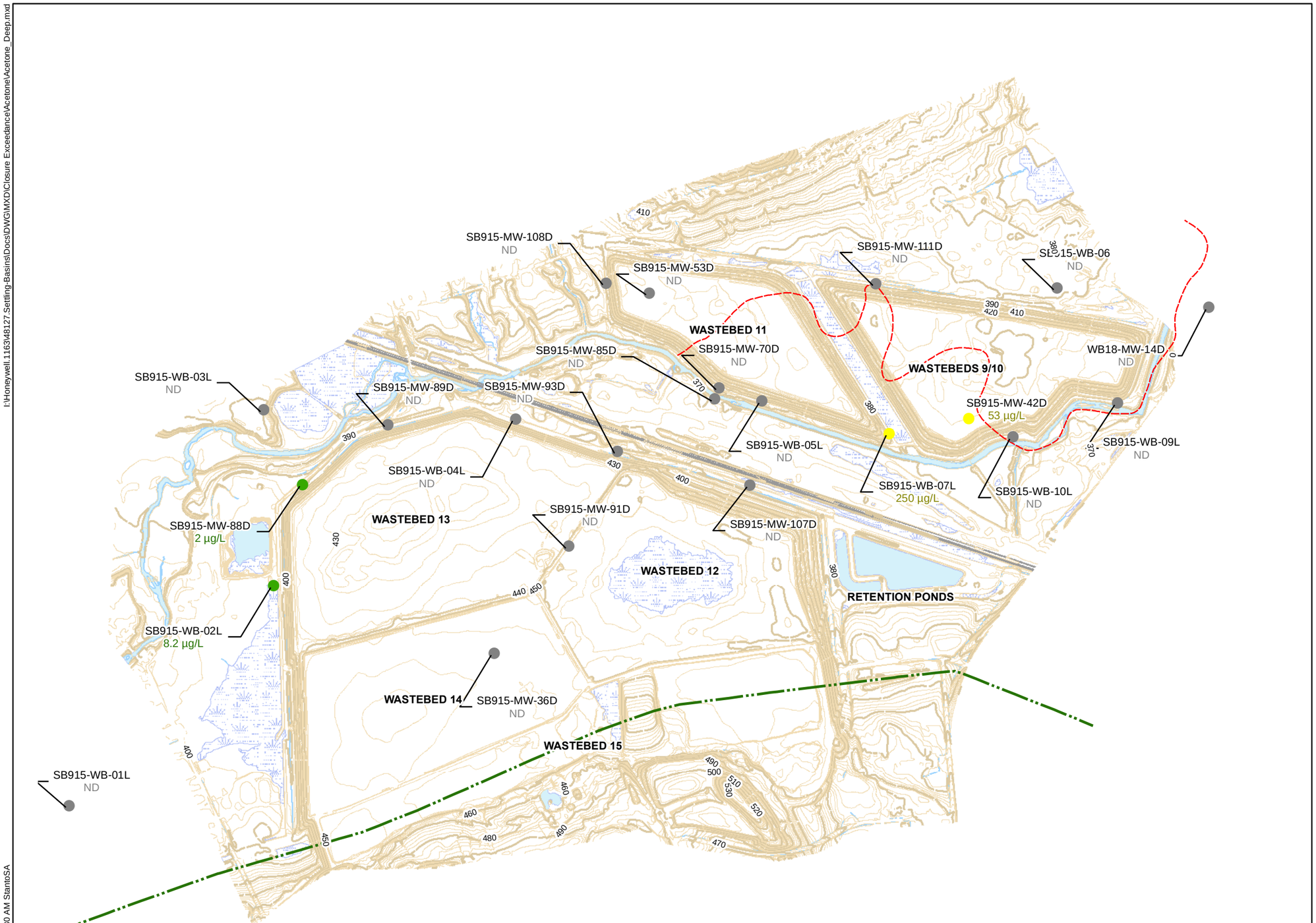
I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\1,2-Dichloroethane\Dichloroethane_Deep.mxd

FIGURE K-4.6



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

ACETONE
DEEP NATIVE
GROUNDWATER

0 600 1,200 2,400
Feet

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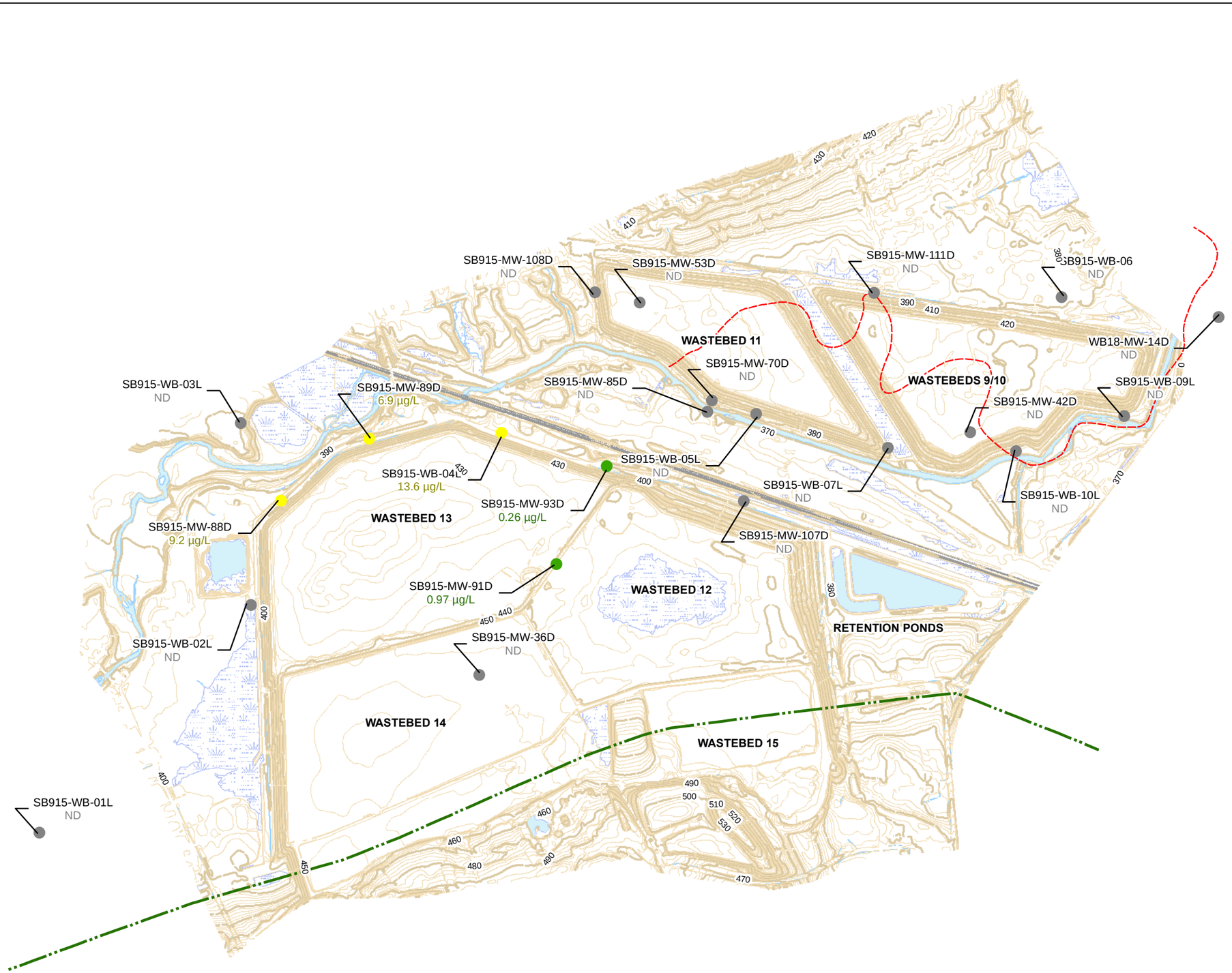
FIGURE K-4.7



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

BENZENE
DEEP NATIVE
GROUNDWATER

0 600 1,200 2,400
Feet

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I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\Benzene\Benzene_Deep.mxd
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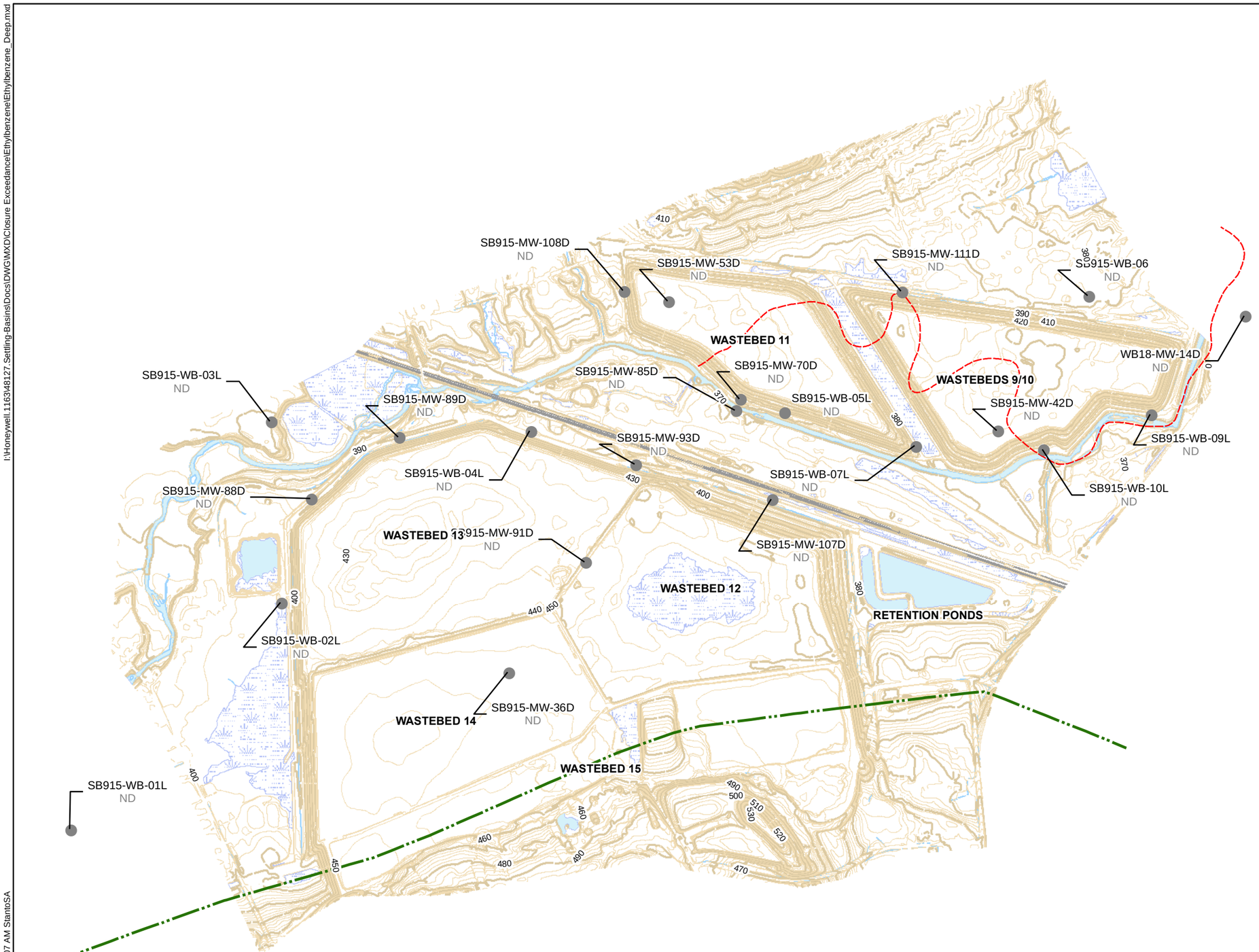
FIGURE K-4.8



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

ETHYLBENZENE
DEEP NATIVE
GROUNDWATER

0 600 1,200 2,400
Feet

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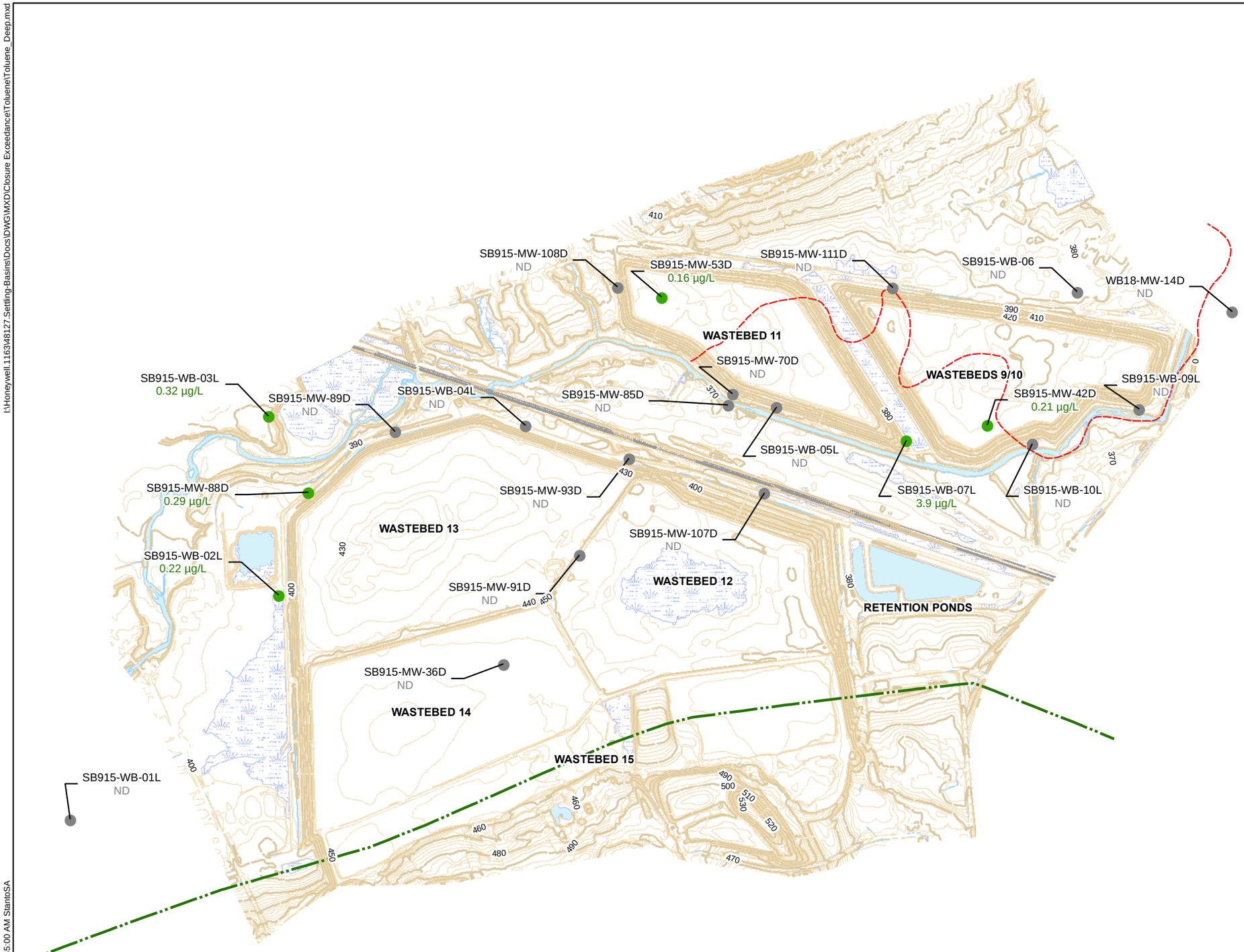
PLOTDATE: 10/01/13 9:40:07 AM StantoSA

FIGURE K-4.9



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOLUENE
DEEP NATIVE
GROUNDWATER

0 600 1,200 2,400
Feet

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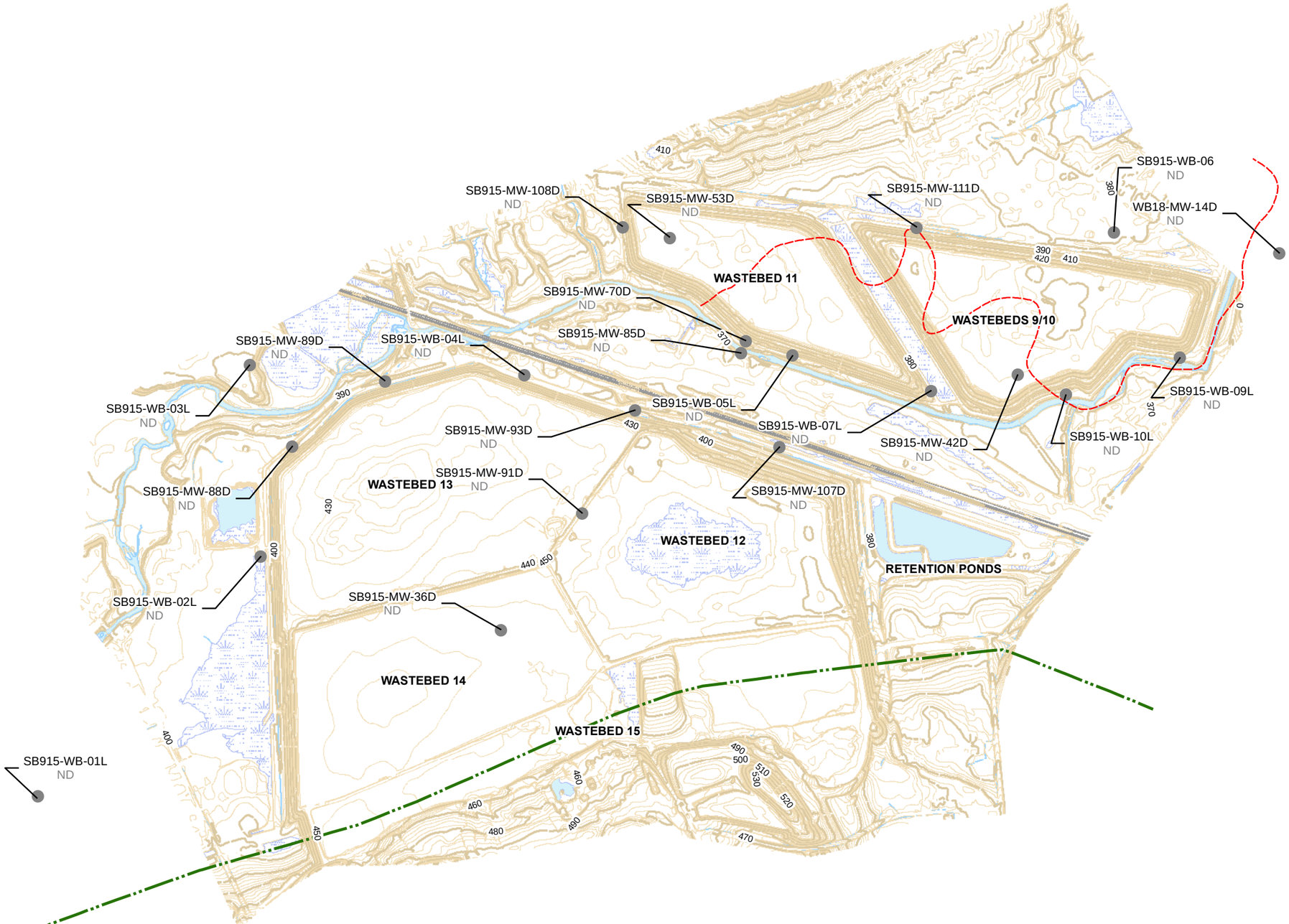

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FIGURE K-4.10

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL XYLENES DEEP NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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O'BRIEN & GERE

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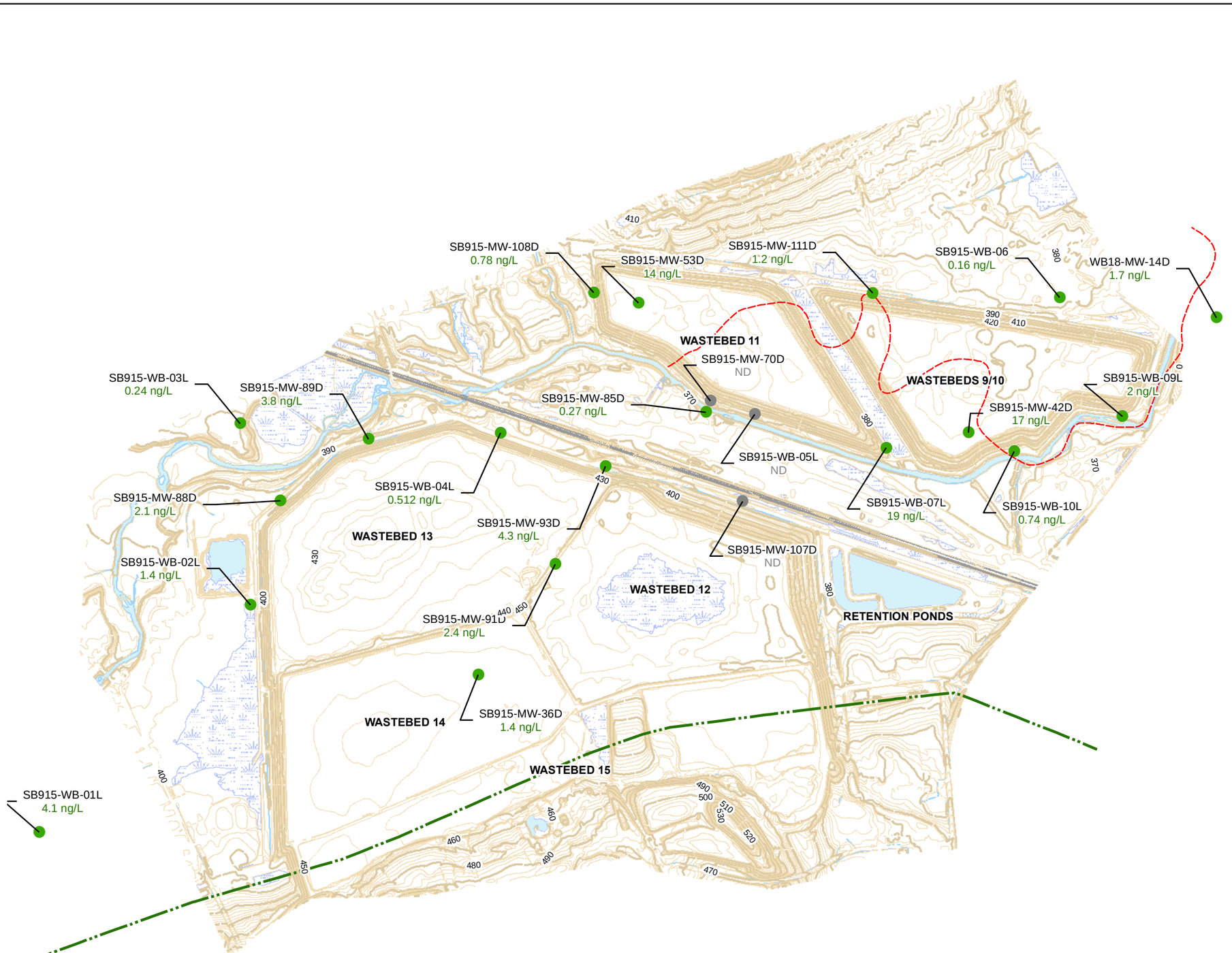
FIGURE K-4.11



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 ng/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

MERCURY
DEEP NATIVE
GROUNDWATER

0 600 1,200 2,400
Feet

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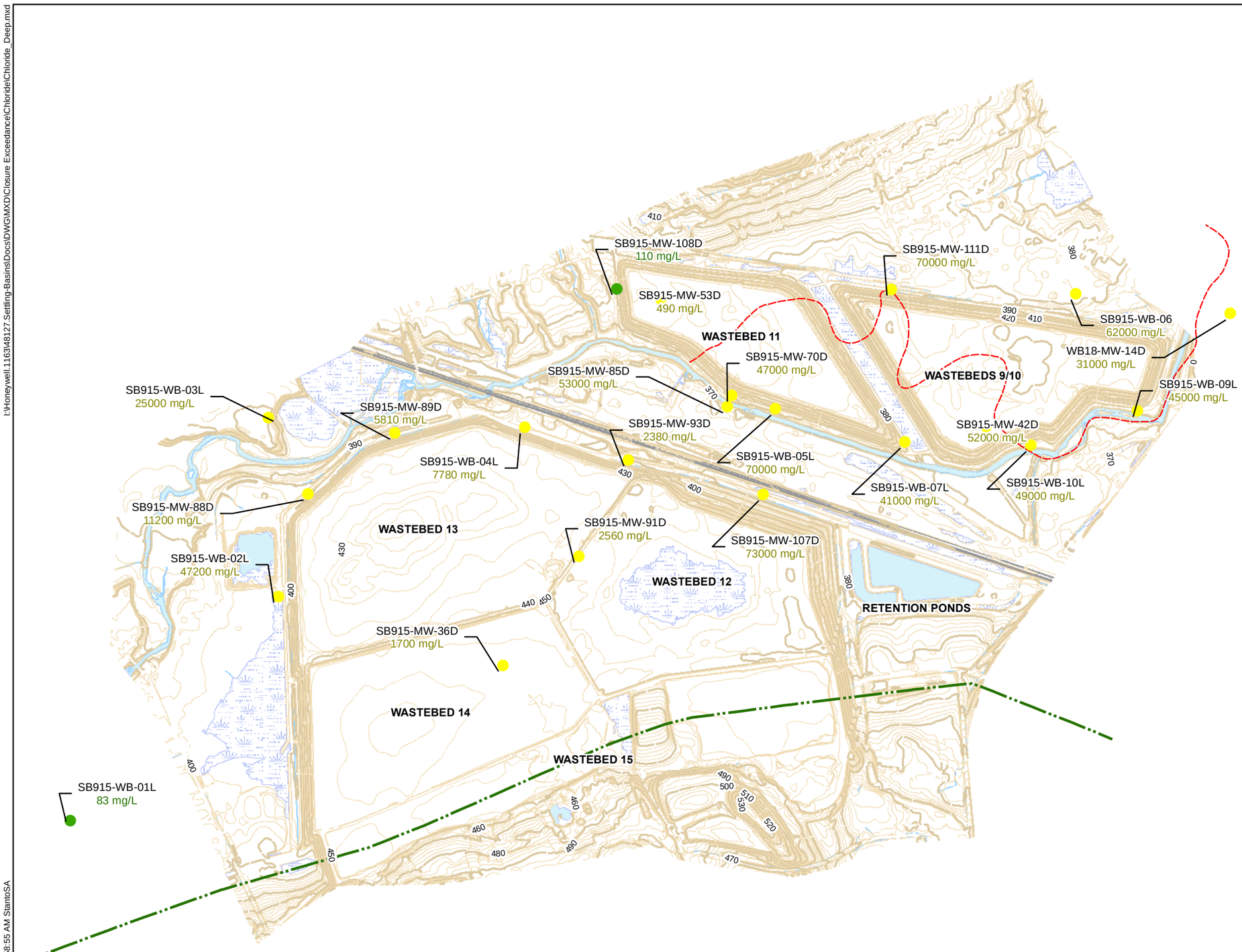
FIGURE K-4.12



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLORIDE
DEEP NATIVE
GROUNDWATER

0 600 1,200 2,400
Feet

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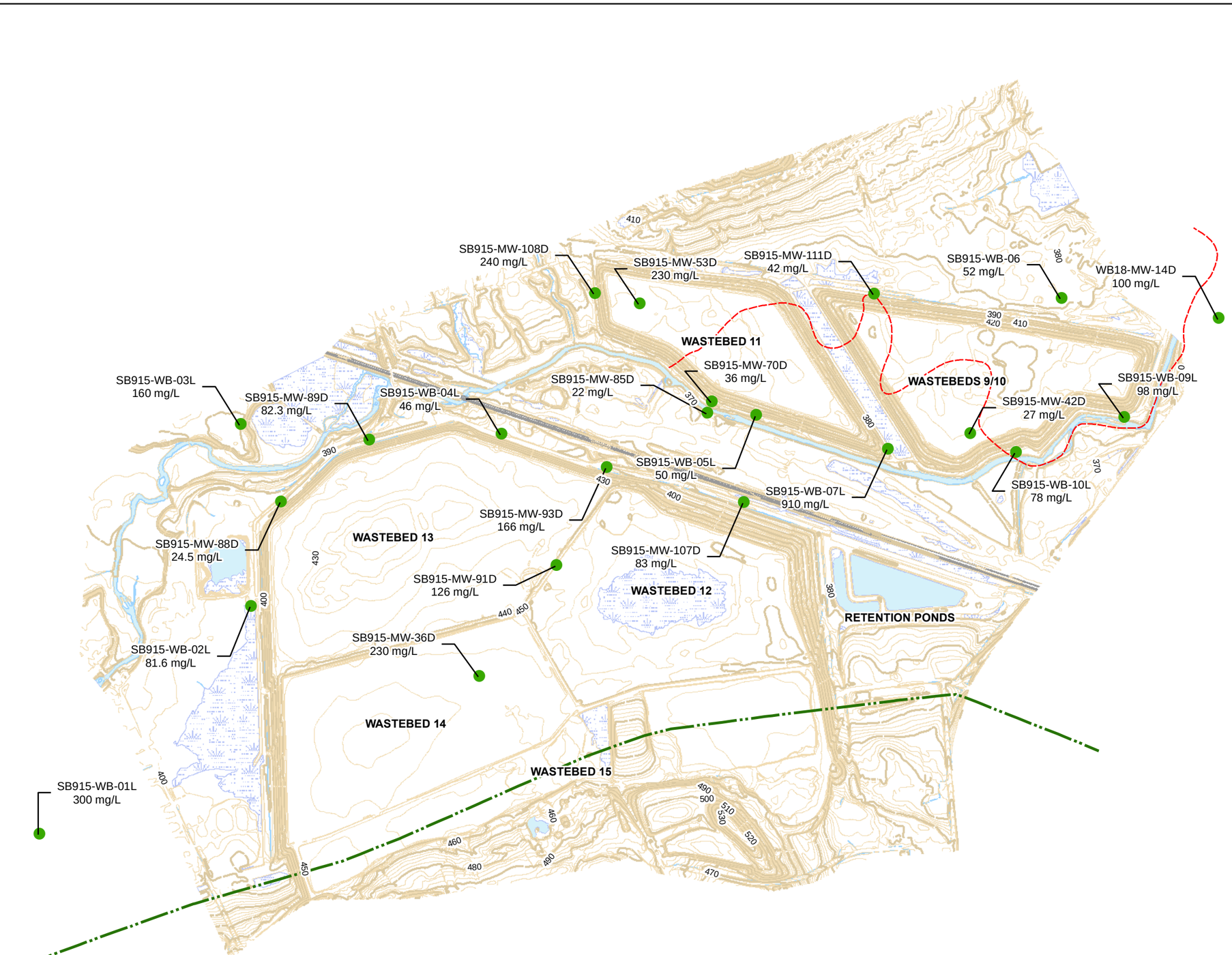
FIGURE K-4.13



LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL ALKALINITY DEEP NATIVE GROUNDWATER

0 600 1,200 2,400
Feet

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Appendix K-5

Bedrock Groundwater

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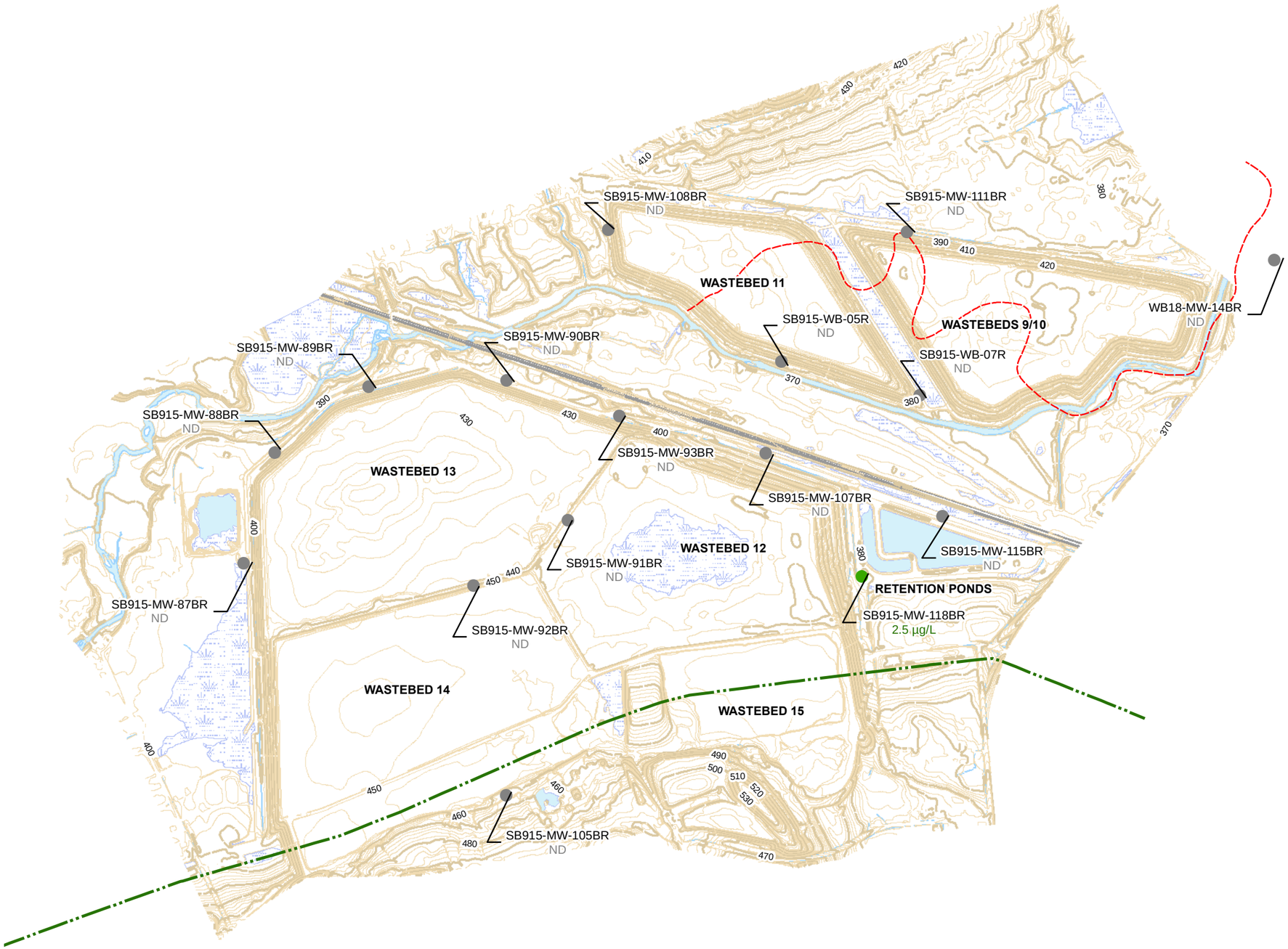

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PLOTDATE: 08/14/13 1:54:19 PM MillerMR

FIGURE K-5.1

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1, 2 - DICHLOROBENZENE BEDROCK GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

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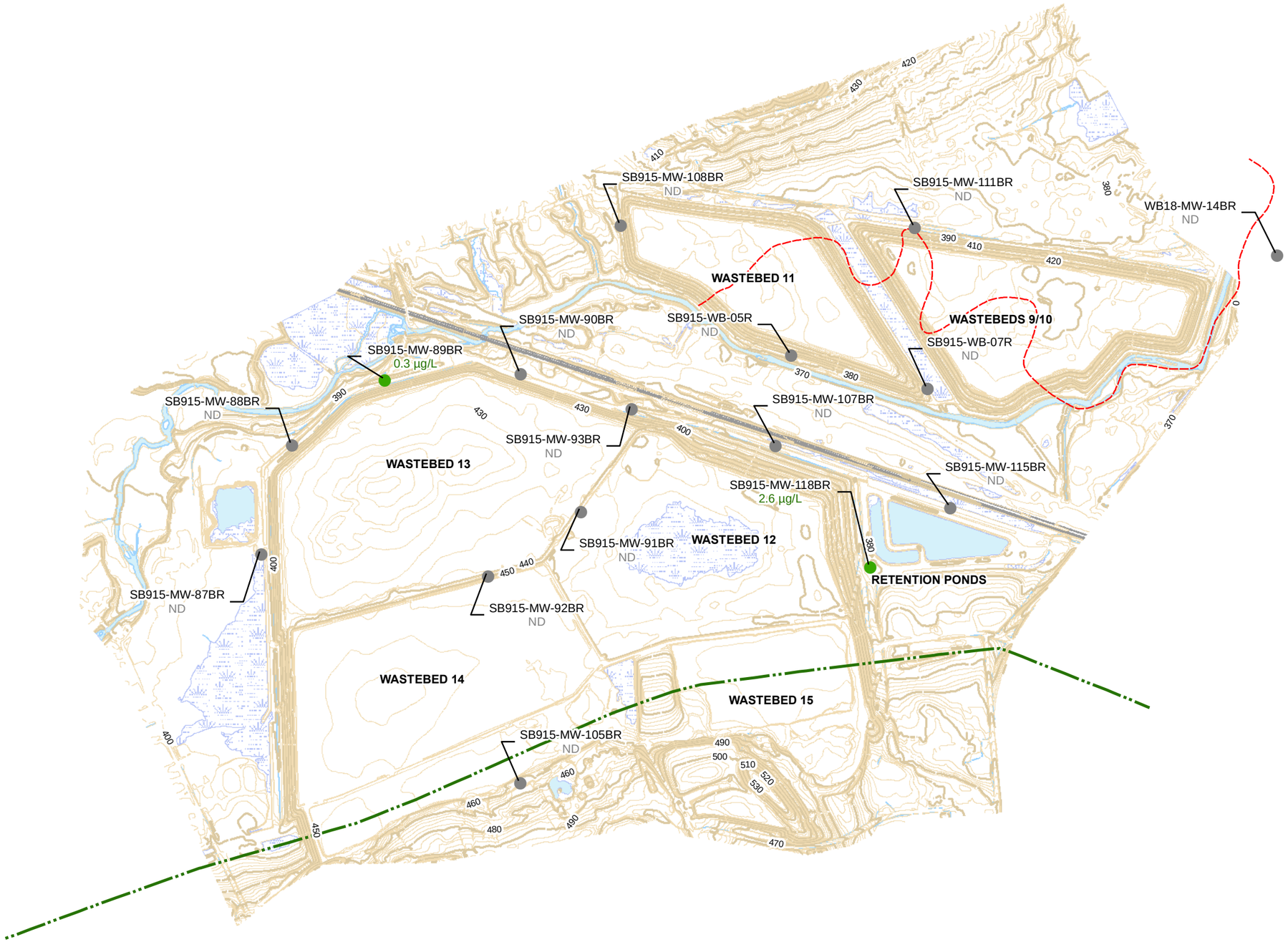

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FIGURE K-5.2

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

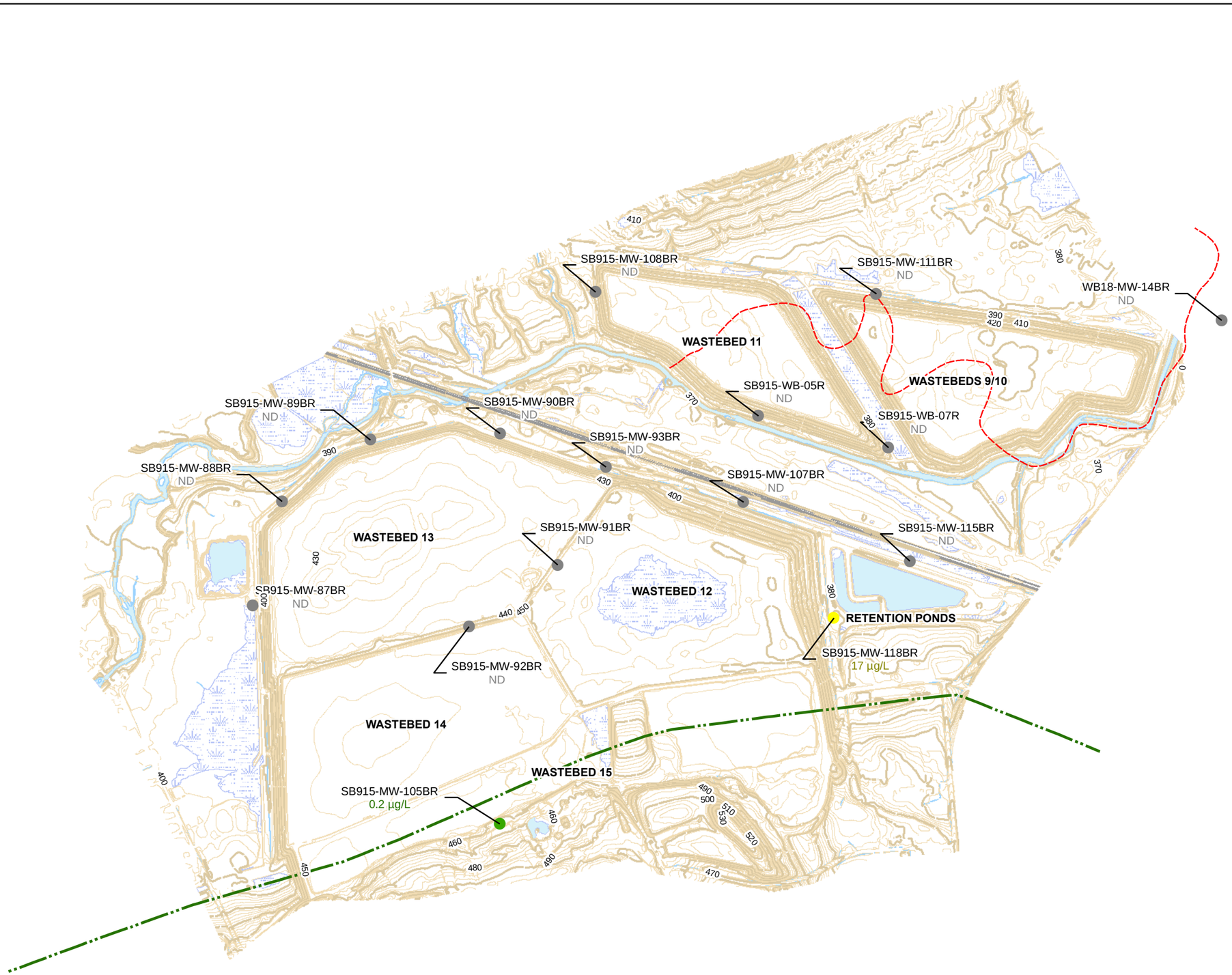
1, 4 - DICHLOROBENZENE BEDROCK GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

FIGURE K-5.3



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLOROBENZNE BEDROCK GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

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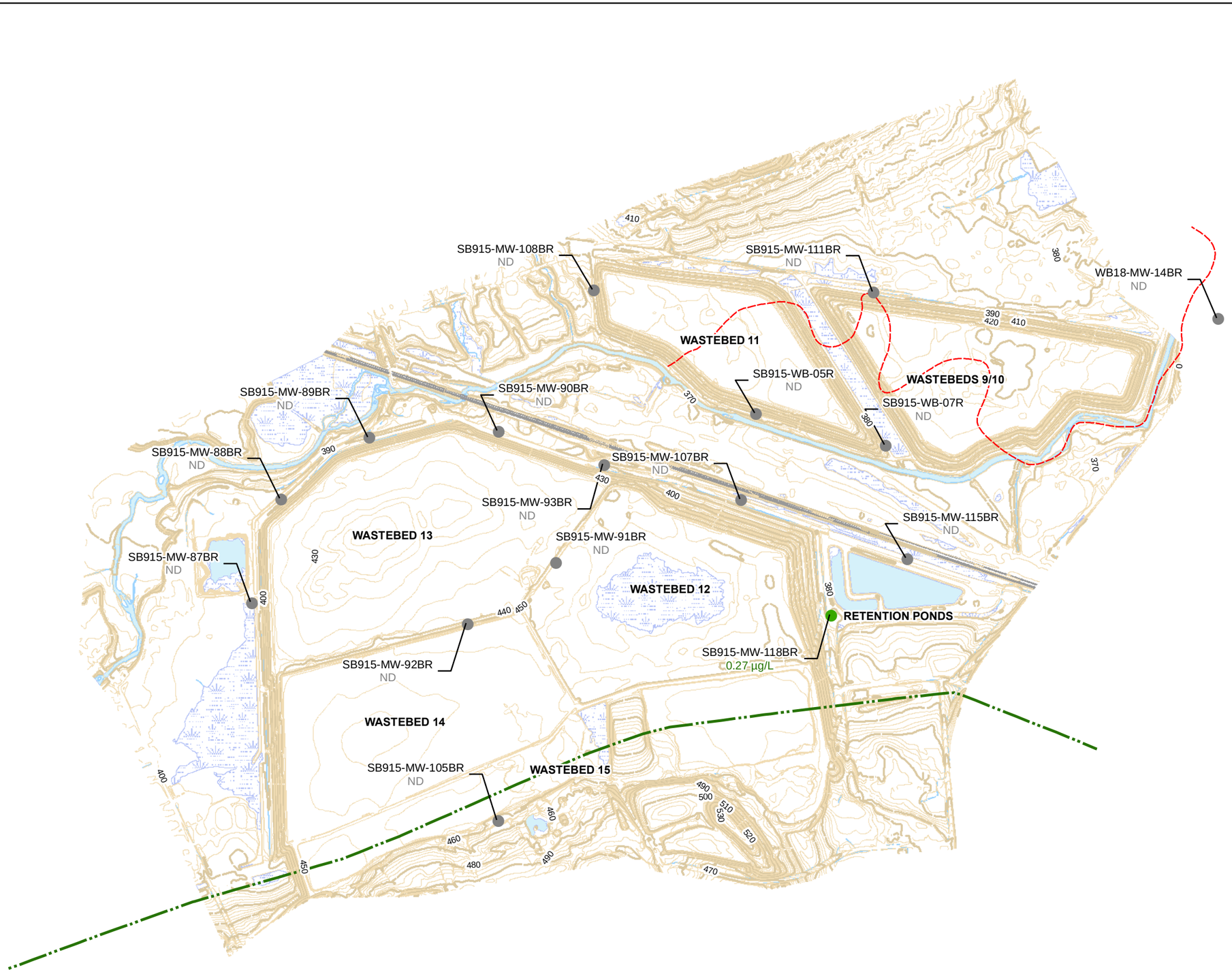

FIGURE K-5.4

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CIS - 1,2 - DICHLOROETHENE BEDROCK GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

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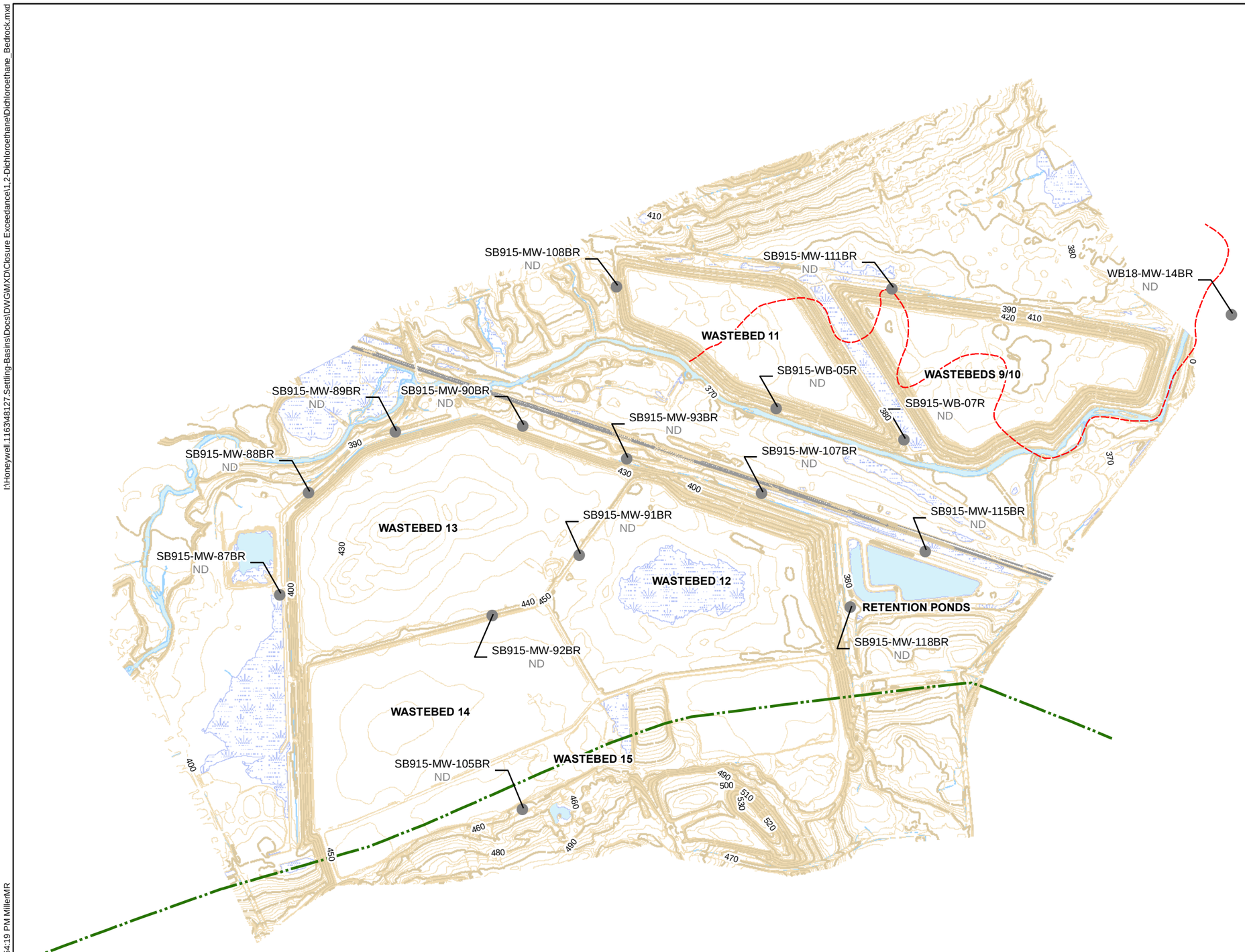
FIGURE K-5.5



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

1,2 - DICHLOROETHANE BEDROCK GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

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I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\1,2-DichloroethaneDichloroethane_Bedrock.mxd
PLOTDATE: 08/14/13 1:54:19 PM MillerMR

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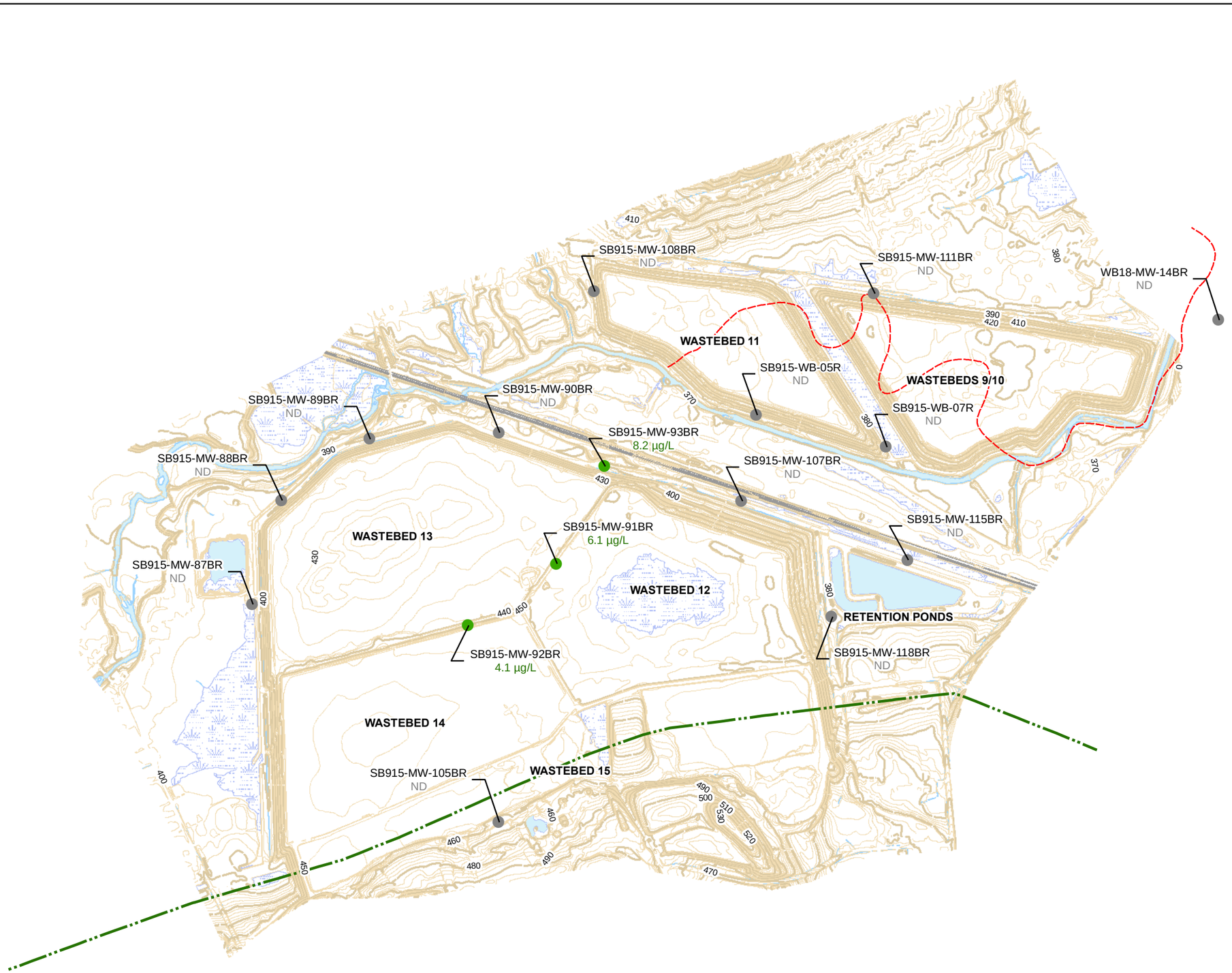

FIGURE K-5.6

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

ACETONE
BEDROCK
GROUNDWATER

0 600 1,200 2,400
Feet

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FIGURE K-5.7



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

BENZENE
BEDROCK
GROUNDWATER

0 600 1,200 2,400
Feet

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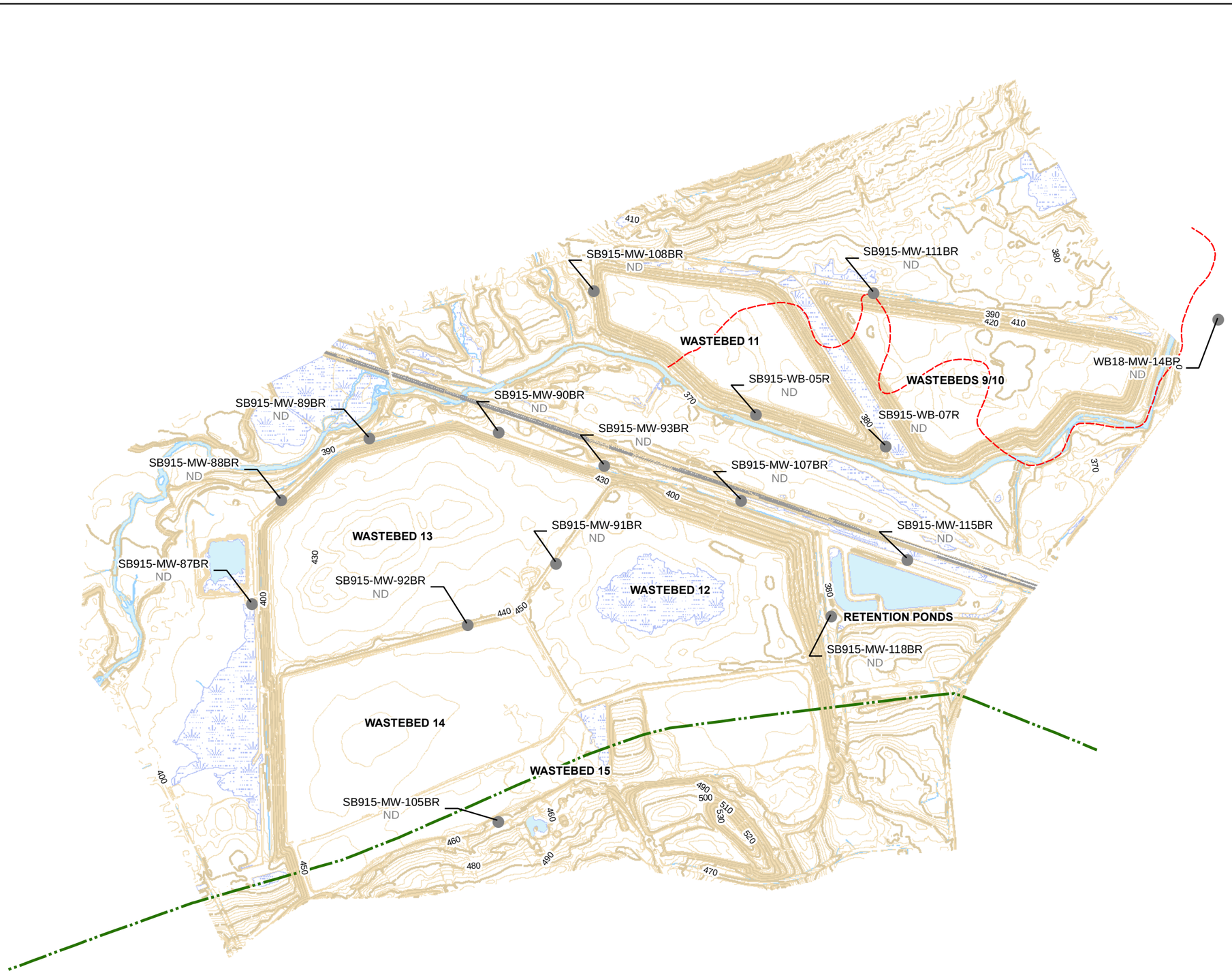
FIGURE K-5.8



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

ETHYLBENZENE
BEDROCK
GROUNDWATER

0 600 1,200 2,400
Feet

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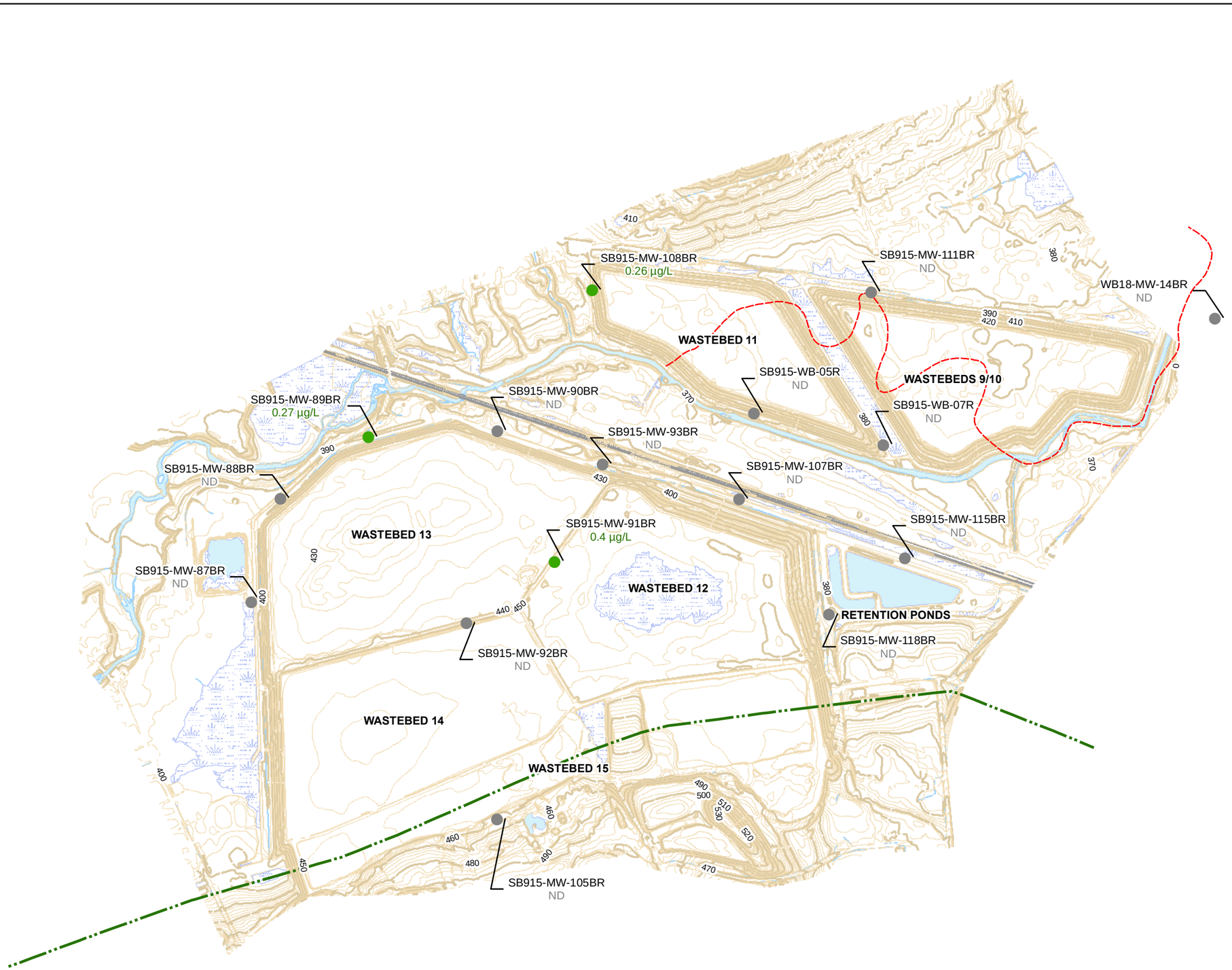
FIGURE K-5.9



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOLUENE BEDROCK GROUNDWATER

0 600 1,200 2,400
Feet

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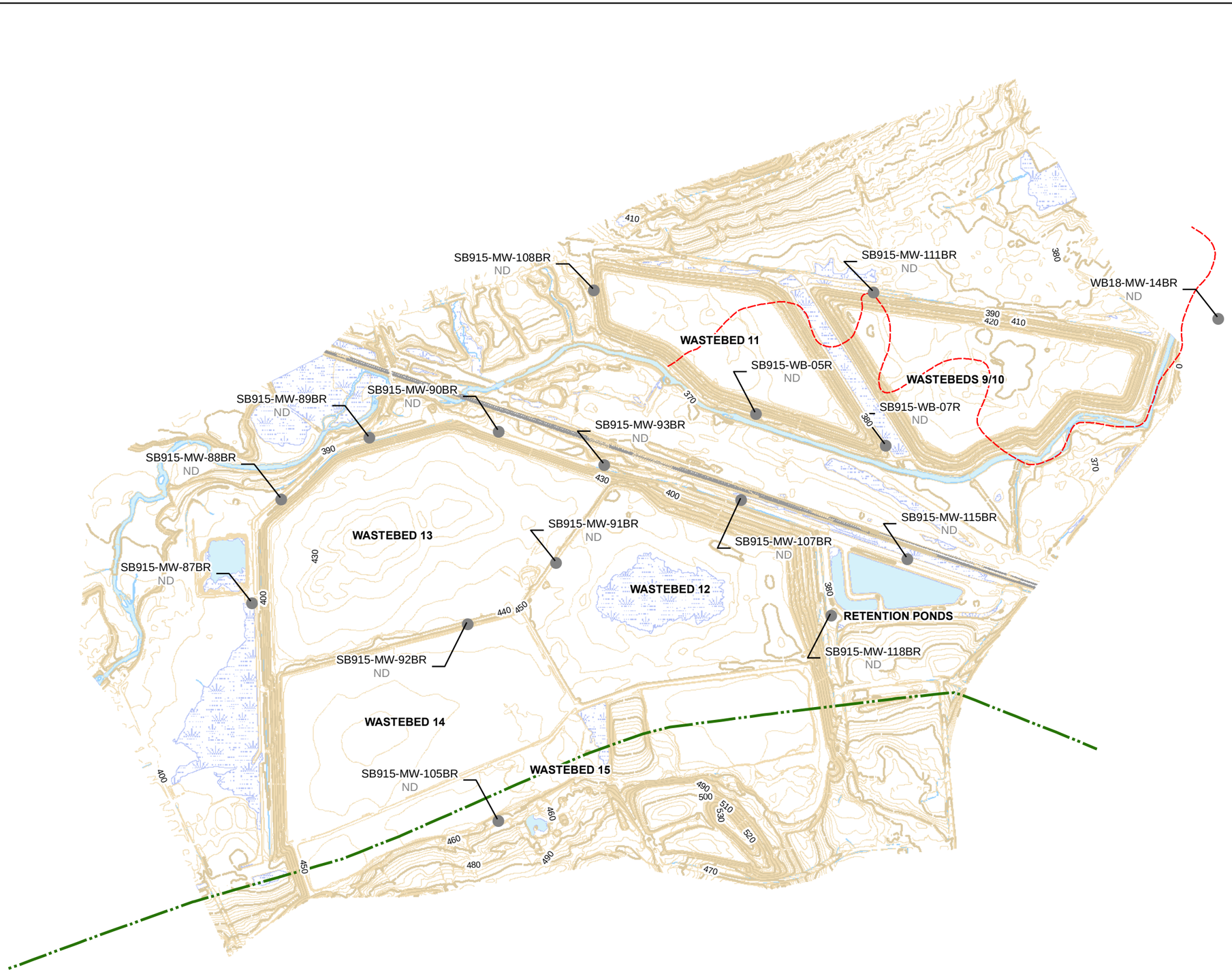

FIGURE K-5.10

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 µg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL XYLENES BEDROCK GROUNDWATER

0 600 1,200 2,400
Feet

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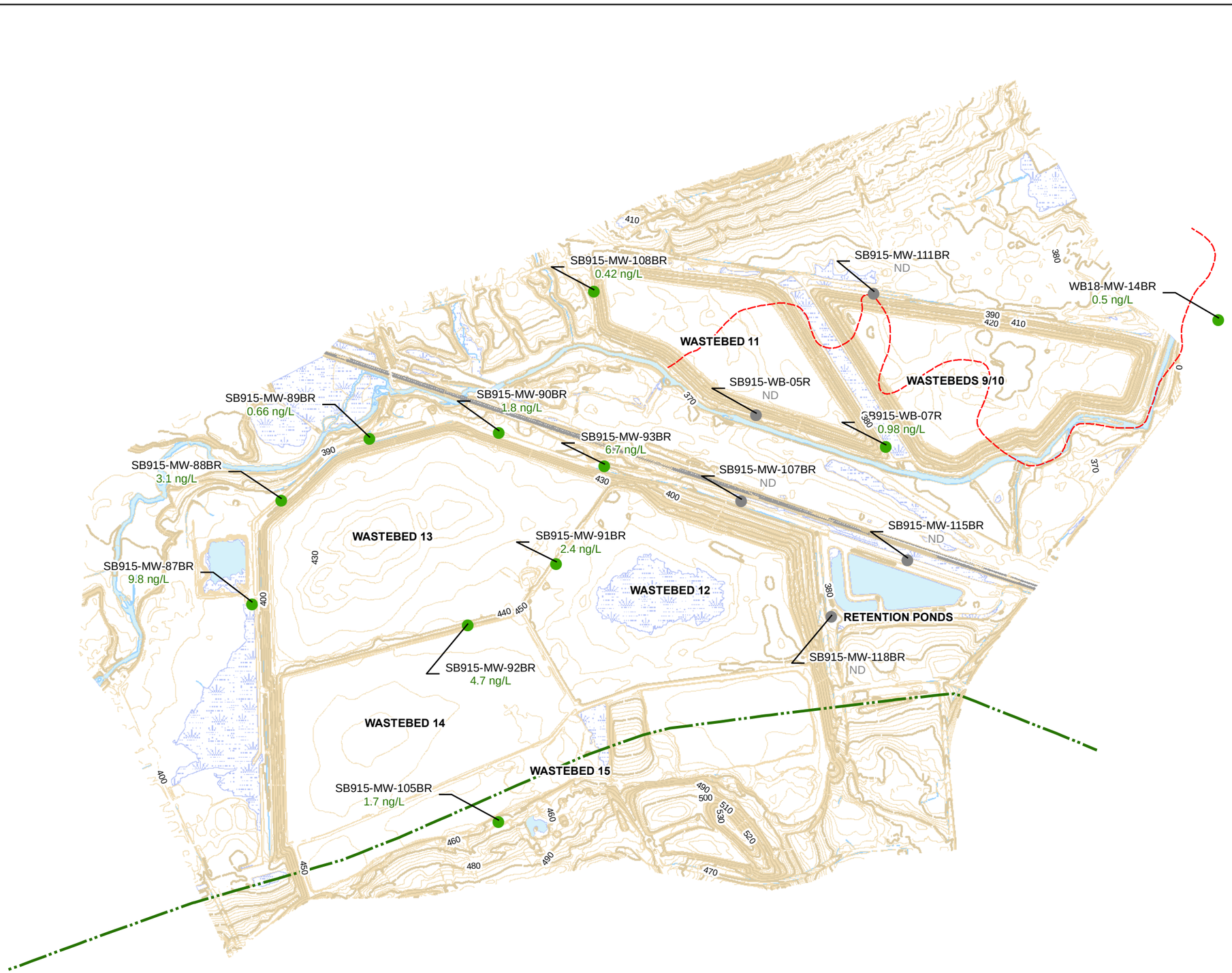
FIGURE K-5.11



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 ng/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

MERCURY BEDROCK GROUNDWATER

0 600 1,200 2,400
Feet

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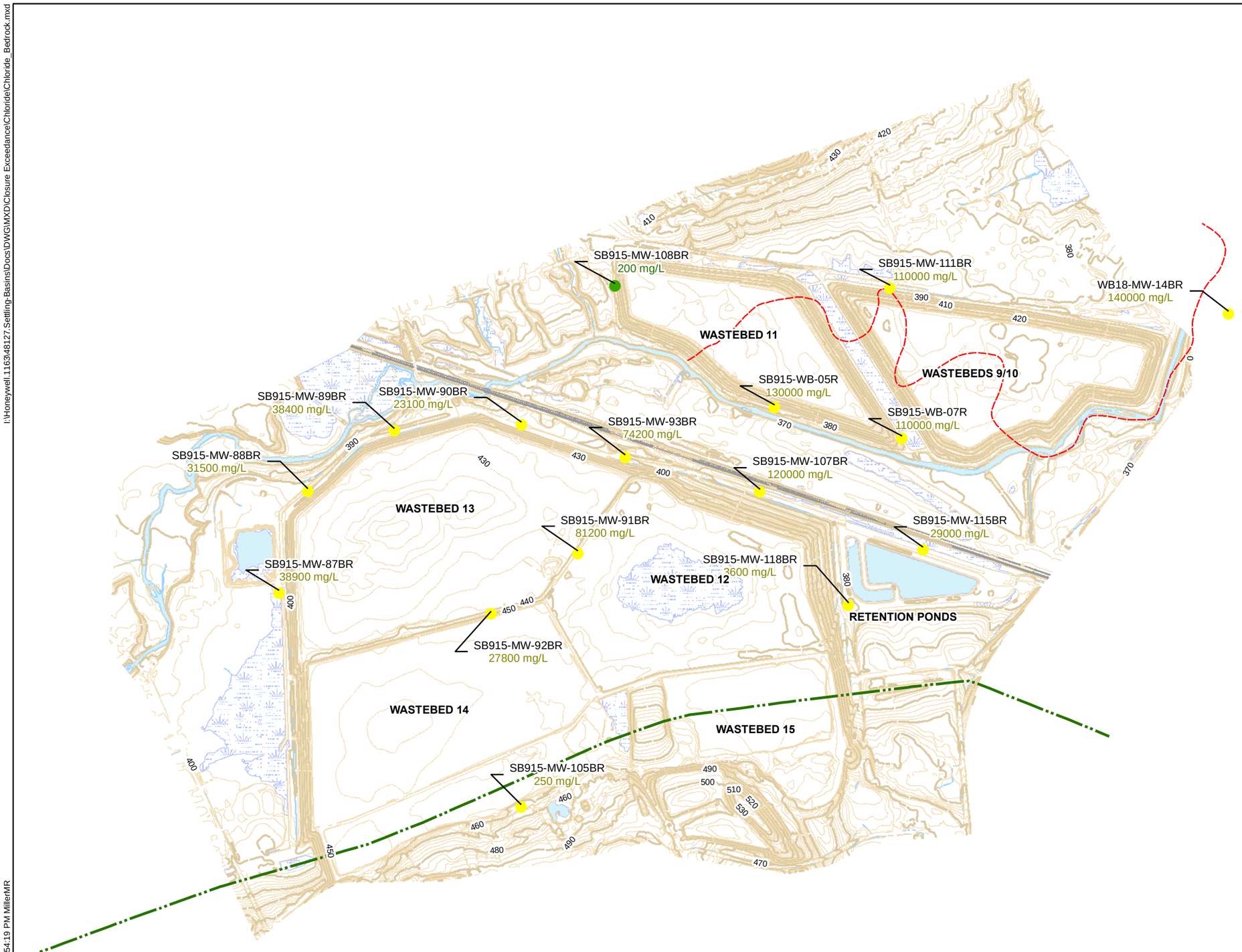
FIGURE K-5.12



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLORIDE
BEDROCK
GROUNDWATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

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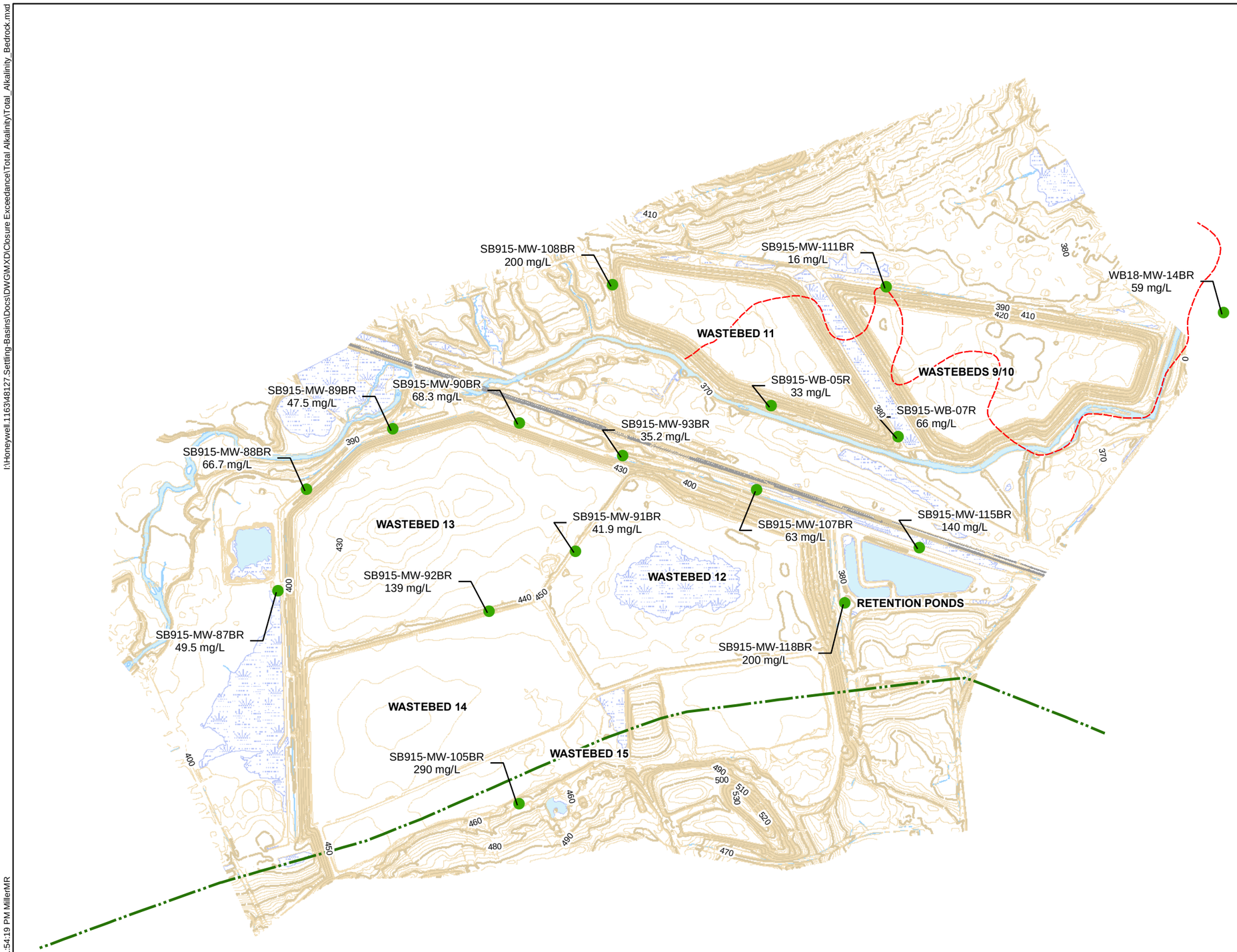
FIGURE K-5.13



LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL ALKALINITY BEDROCK GROUNDWATER

0 600 1,200 2,400
Feet

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PLOTDATE: 08/14/13 1:54:19 PM MillerMR

Appendix K-6

Subsurface and Surface Leachate

FIGURE K-6.1



LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

SODIUM SURFACE AND SUBSURFACE LEACHATE

0 600 1,200 2,400
Feet

OCTOBER 2013
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I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\Sodium\Sodium_Leachate.mxd
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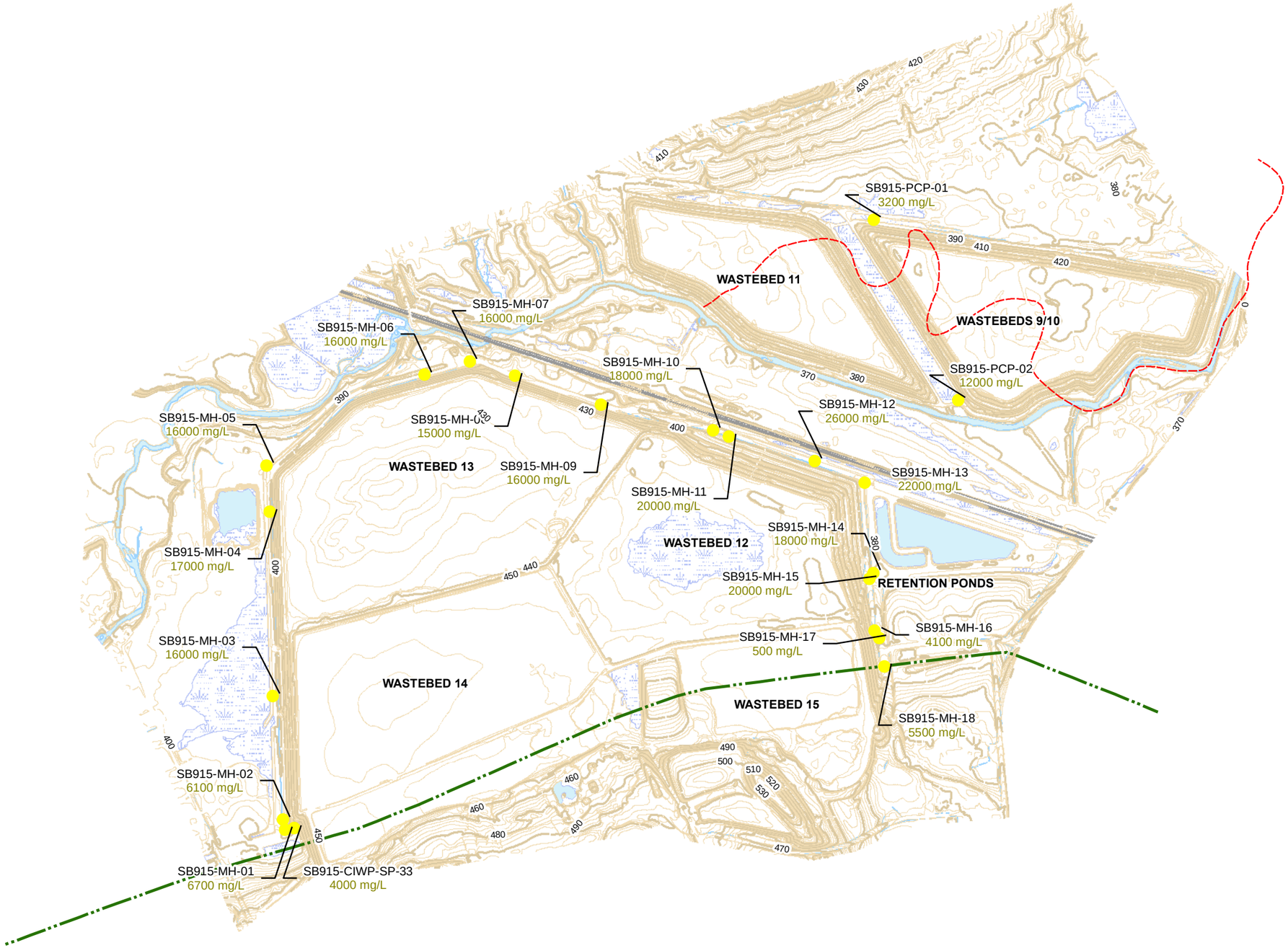

FIGURE K-6.2

N

LEGEND

- NON DETECT
- EXCEEDANCE
- DETECT - BELOW CRITERIA
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*
ND *- NON DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLORIDE SURFACE AND SUBSURFACE LEACHATE

0 600 1,200 2,400
Feet

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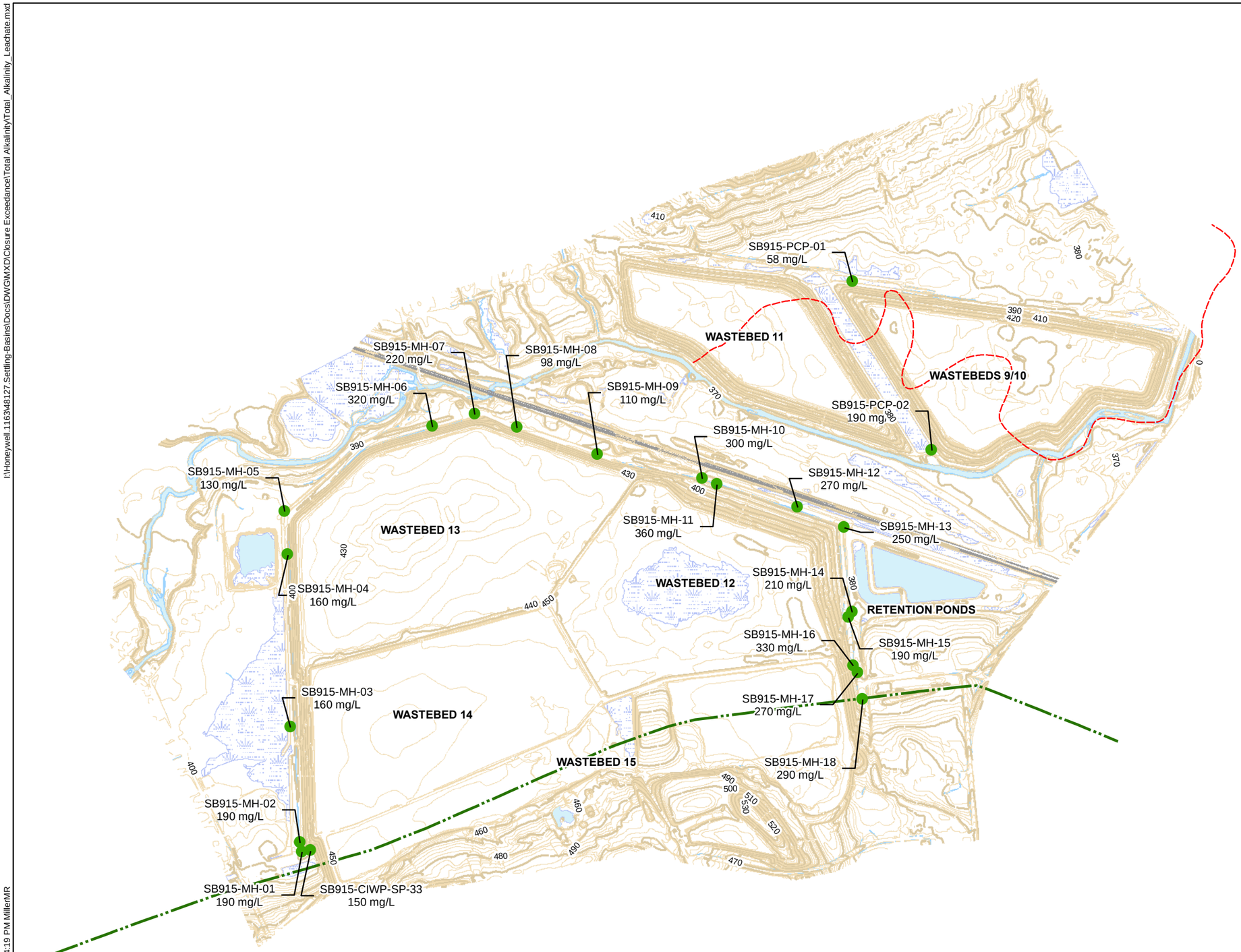
FIGURE K-6.3



LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL ALKALINITY SURFACE AND SUBSURFACE LEACHATE

0 600 1,200 2,400
Feet

OCTOBER 2013
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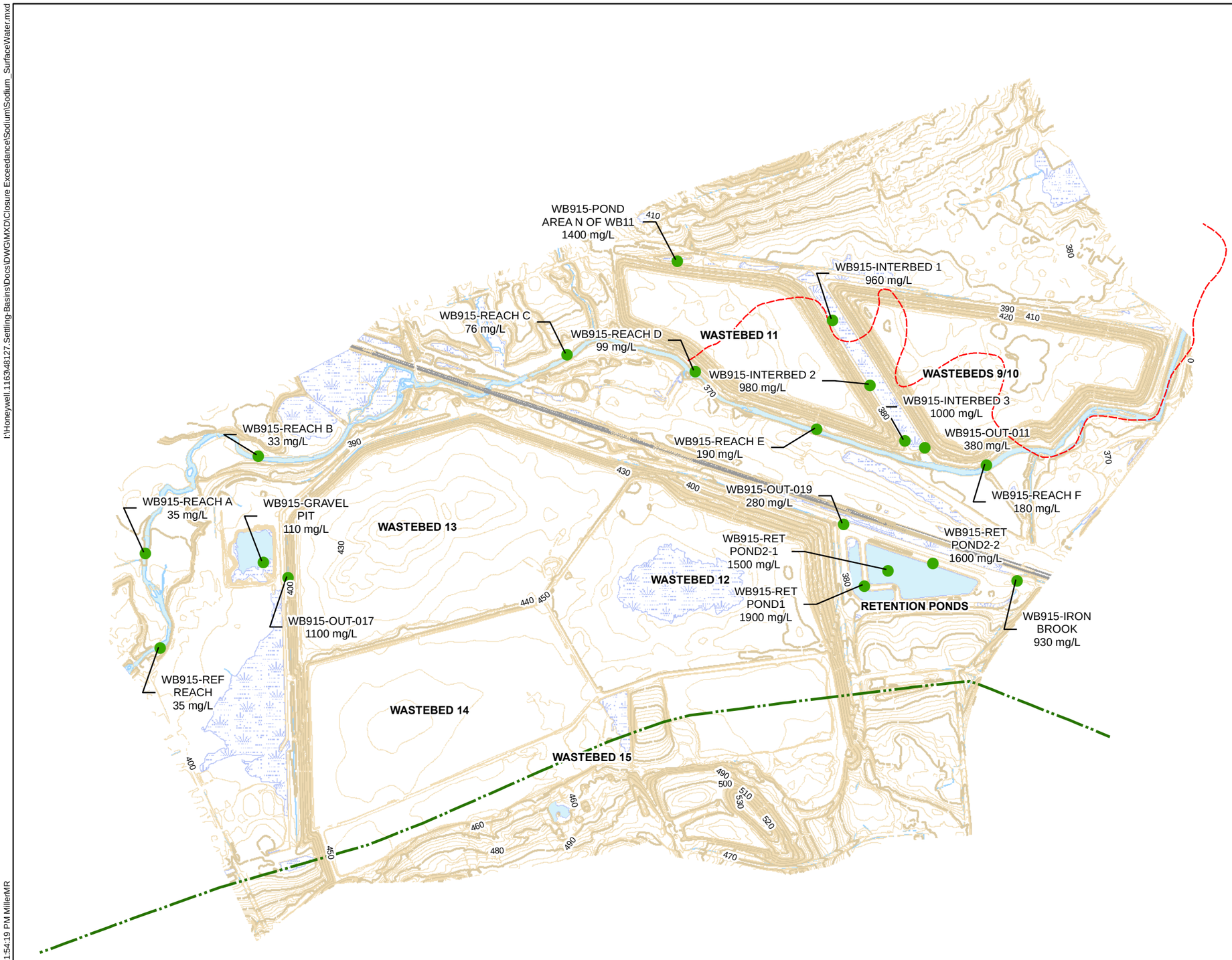
Appendix K-7

Surface Water

I:\Honeywell.1163\48127.Settling-Basins\Docs\DWG\MXD\Closure Exceedance\Sodium\Sodium_SurfaceWater.mxd

FIGURE K-7.1



LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

SODIUM
SURFACE WATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

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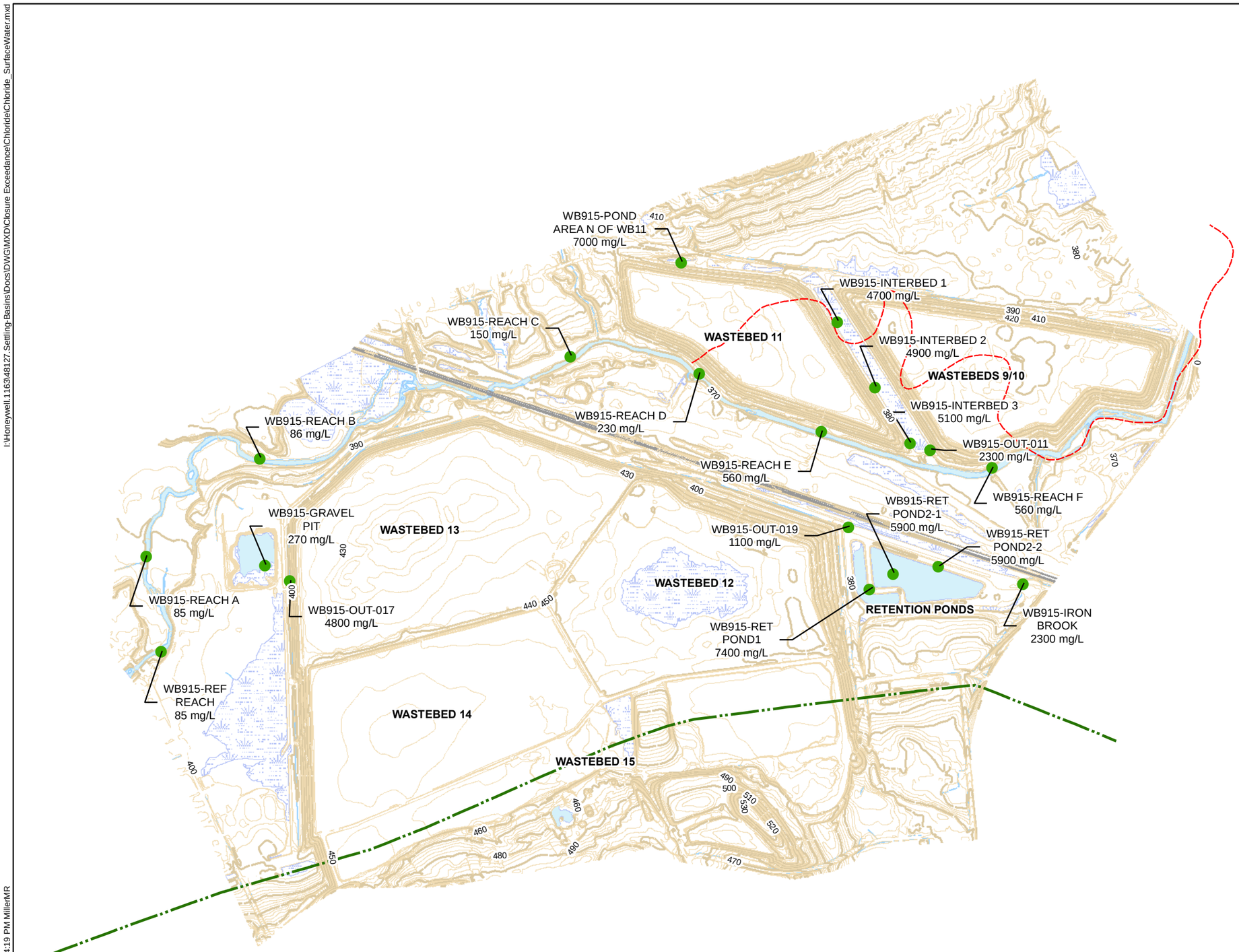
FIGURE K-7.2



LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLORIDE
SURFACE WATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

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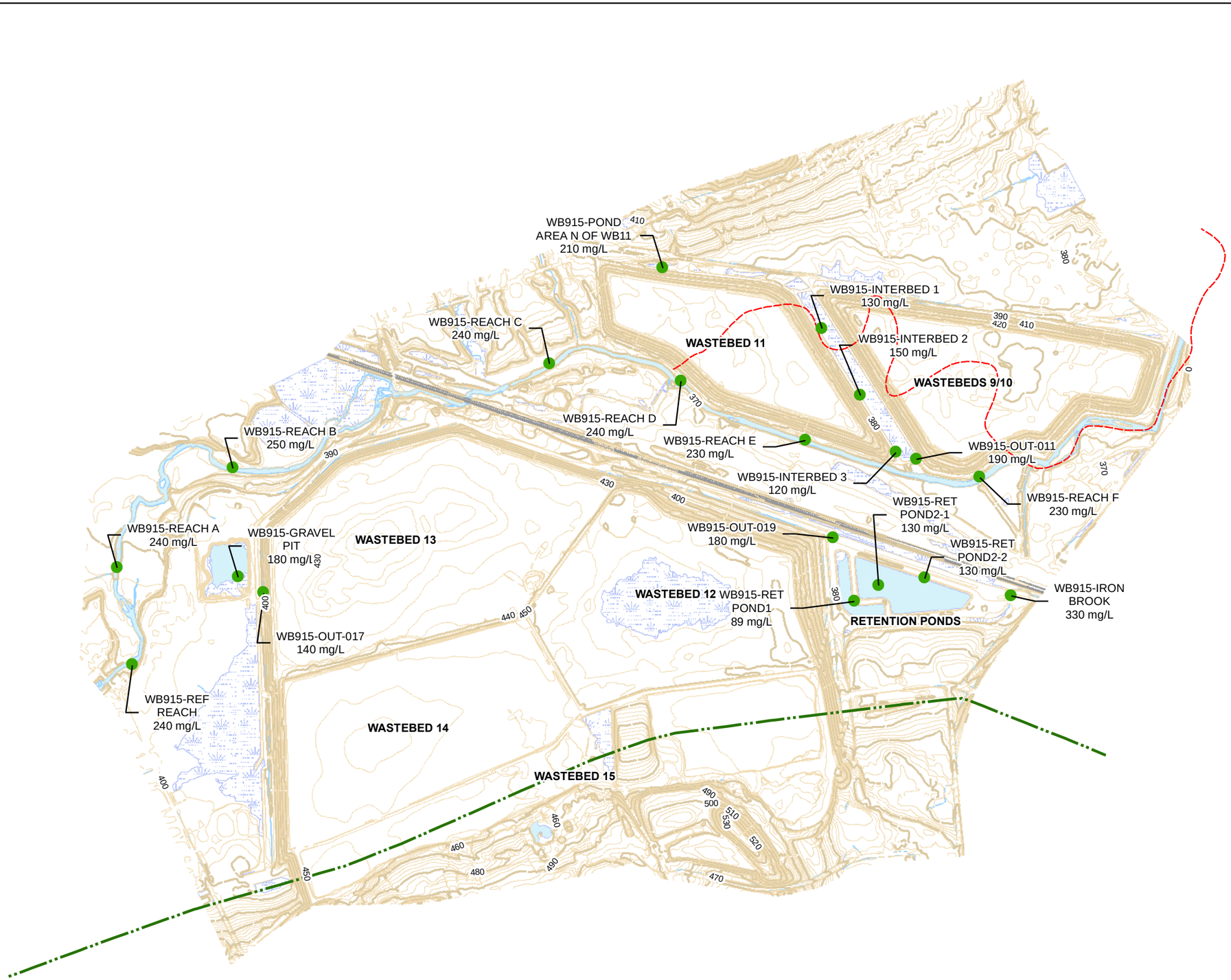

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FIGURE K-7.3

N

LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL ALKALINITY SURFACE WATER

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

O'BRIEN & GERE

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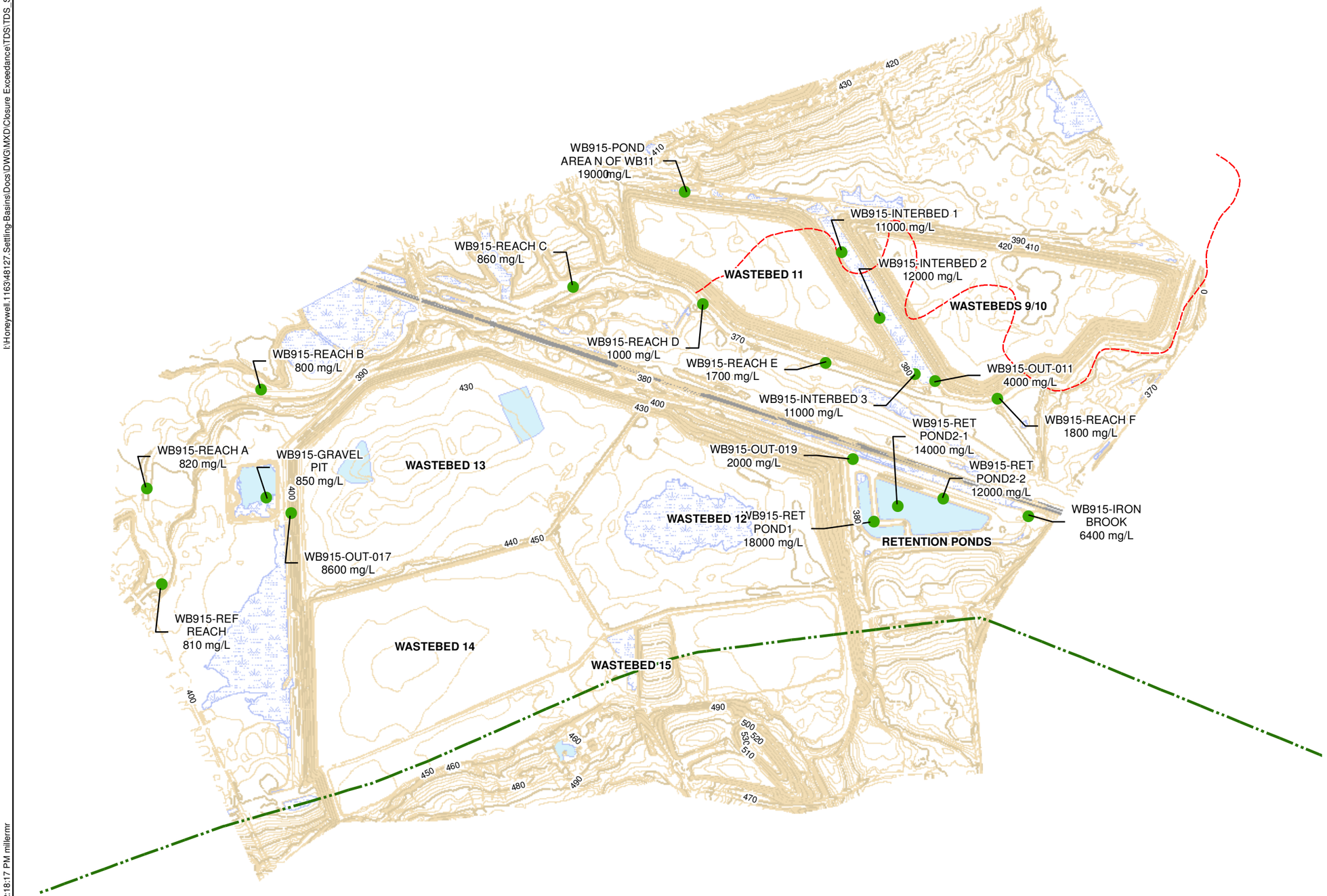
FIGURE K-7.4



LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL DISSOLVED SOLIDS SURFACE WATER

0 600 1,200 2,400
Feet

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Appendix K-8

Ninemile Creek Sediment

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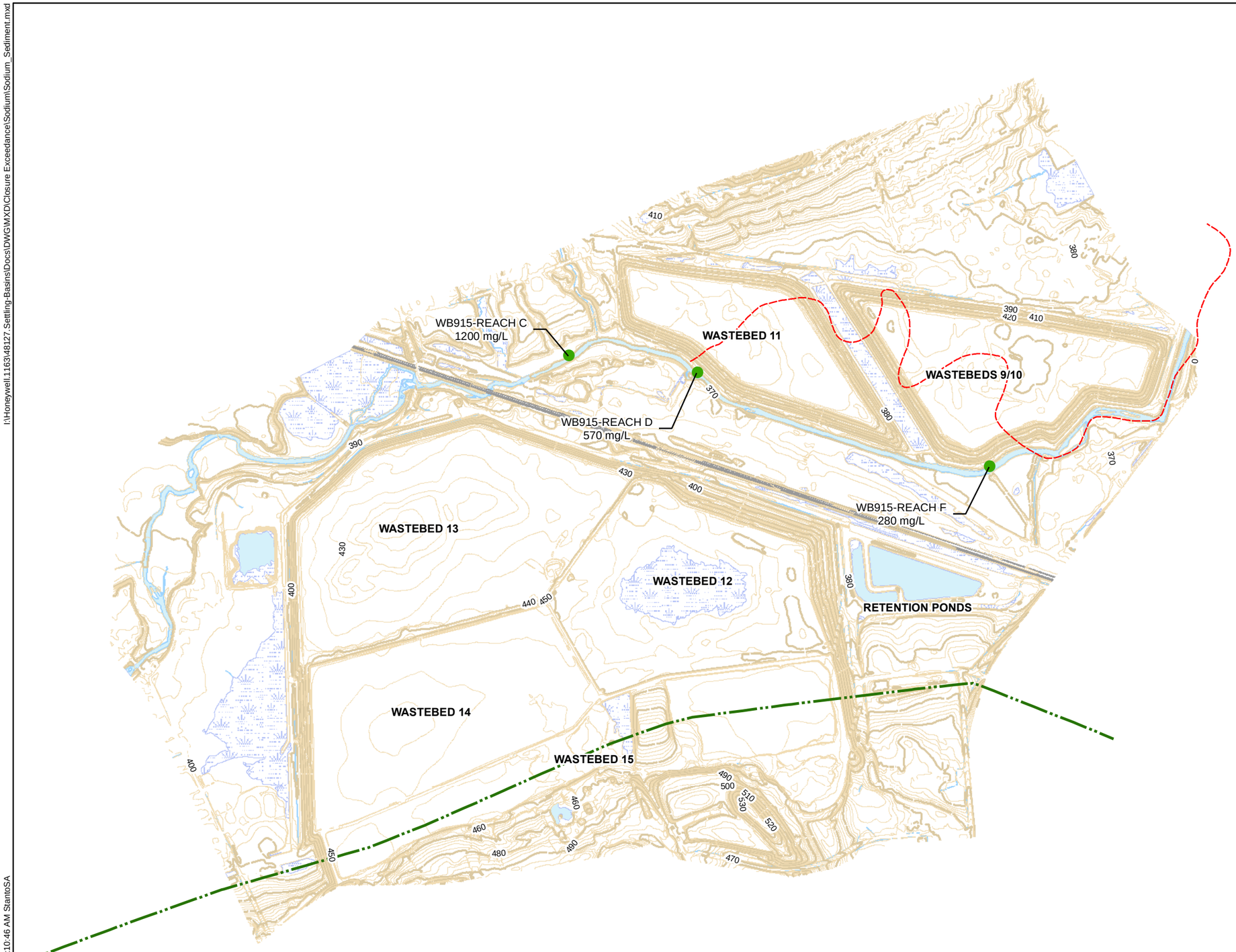
FIGURE K-8.1



LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

SODIUM SEDIMENT

0 600 1,200 2,400
Feet

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1163.48127

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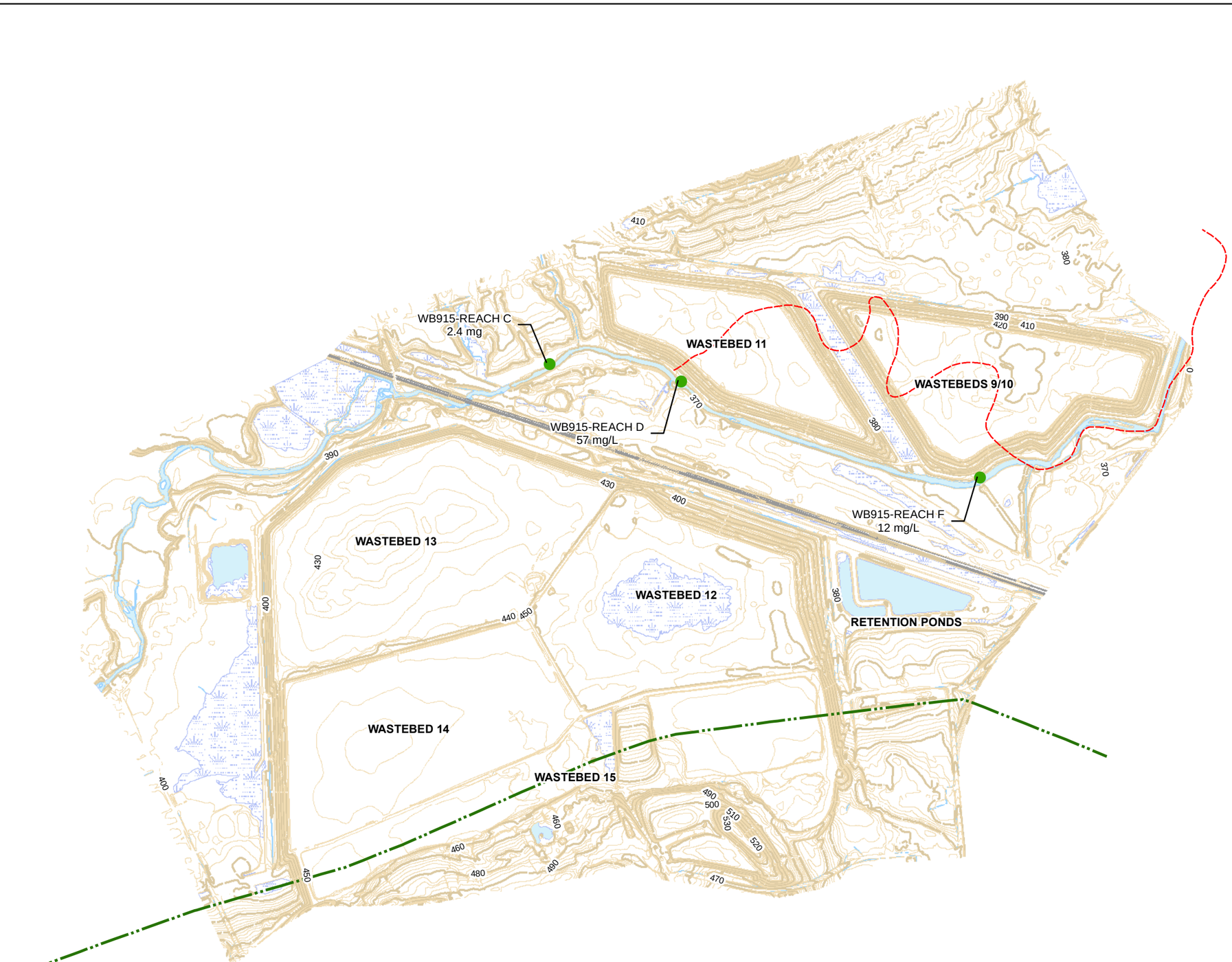

FIGURE K-8.2

N

LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

CHLORIDE SEDIMENT

0 600 1,200 2,400
Feet

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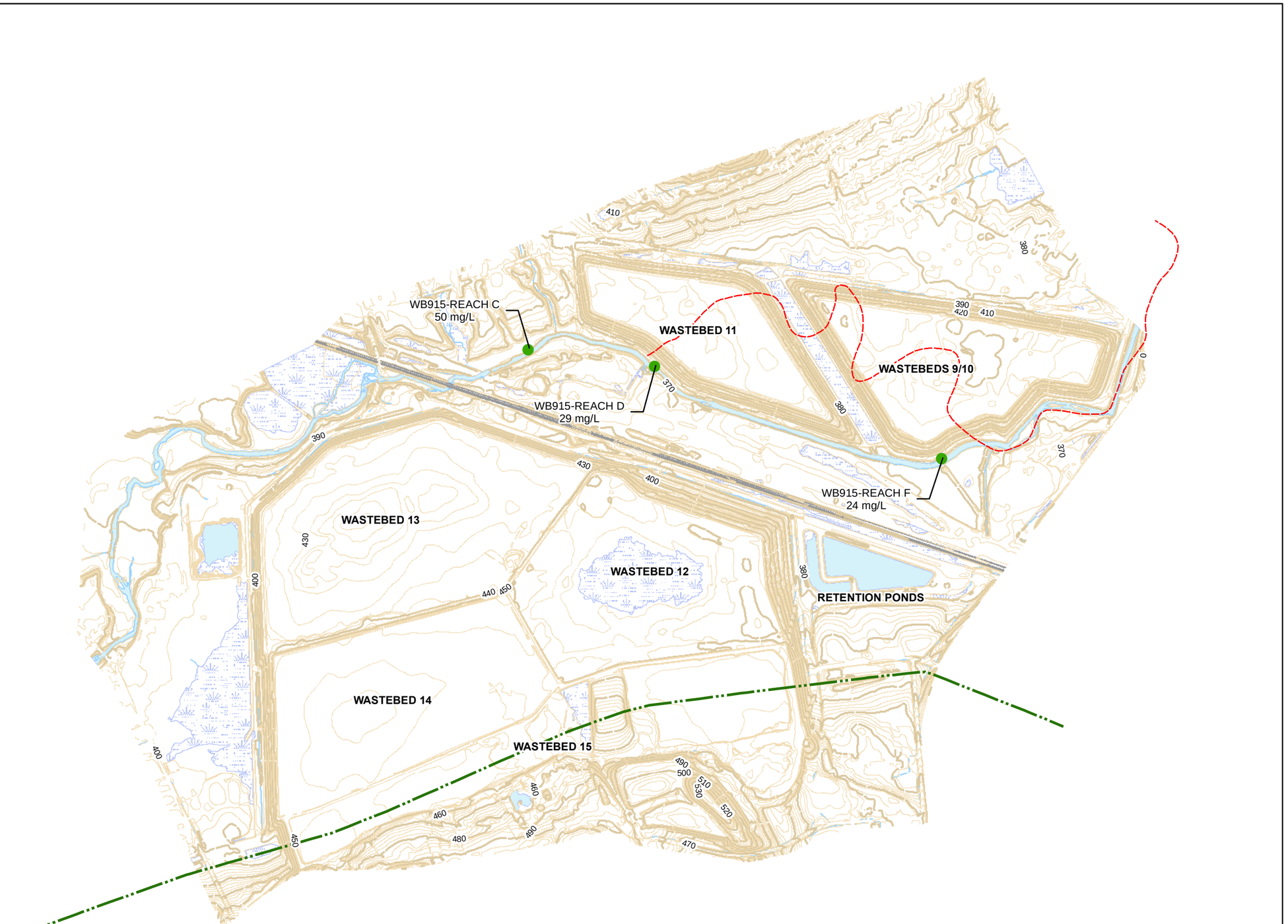

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FIGURE K-8.3

N

LEGEND

- SAMPLE LOCATION
- FORMER NINEMILE CREEK CHANNEL
- FORMER ERIE CANAL

NOTE:

SB915-MW-113S *- LOCATION ID*
2.5 mg/L *- MAXIMUM DETECT*

HONEYWELL
WASTEBEDS 9-15
CLOSURE INVESTIGATION
GEDDES & CAMILLUS, NY

TOTAL ALKALINITY SEDIMENT

0 600 1,200 2,400
Feet

OCTOBER 2013
1163.48127

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Appendix L

Phase 1 SAA Investigation Report

REPORT

Phase 1 Surrounding Affected Area Investigation
Wastebeds 9 – 15 Site
Geddes and Camillus, New York

Honeywell

September 2013

O'BRIEN & GERE

TABLE OF CONTENTS

List of Tables ii
List of Figures ii
List of Appendices ii
1. Introduction 1
2. SAA Site Conceptual Model 2
3. Phase 1 Investigation Methods 3
3.1. Ninemile Creek 3
3.1.1. Physical and Biological Characterization Methods 3
3.2. Other Water Bodies 4
3.3. Wetlands and Floodplain 4
3.3.1. Visual Assessment Methods 4
4. Phase 1 Results and Recommendations 5
4.1. Ninemile Creek 5
4.1.1. Reach Physical Characterization 5
4.1.2. Reach Biological Characterization 6
4.1.3. Reach Overall Scores 6
4.1.4. Additional Findings 7
4.2. Surface Water Evaluations 7
4.3. Wetlands and Floodplain 7
4.4. Phase 2 Investigations 8
References 9

LIST OF TABLES

1 Ninemile Creek Benthic Macroinvertebrate Catches by Reach and Taxonomic Group

2 Ninemile Creek Benthic Macroinvertebrate Tolerance Group Totals by Reach

3 Ninemile Creek Stream Assessment Scoring Summary

4 Surface Water Quality Parameters of Ninemile Creek and Other Water Bodies

LIST OF FIGURES

1 SAA Sampling Locations and Investigation Findings

LIST OF APPENDICES

A Stream Visual Assessment Forms

1. INTRODUCTION

The Phase 1 Surrounding Affected Area (SAA) Investigation was performed in accordance with the SAA Phase 1 Scope of Work (SOW) presented in the *Closure Investigation Revised Work Plan* (O'Brien & Gere, 2011) for the Wastebeds 9-15 Site (Site) and in Appendix J of the Closure Investigation Report (O'Brien & Gere, 2013).

The scope of this Phase 1 SAA Investigation included visual assessment, field studies, sampling, and data evaluation of the SAA. Completion of those activities resulted in recommendations for additional (Phase 2) investigations, which included surface water and sediment sampling.

2. SAA SITE CONCEPTUAL MODEL

Based on the hydrology of the SAA and the historical chemical analytical data reviewed as part of this investigation, the SAA appears to be primarily affected by leachate or groundwater from the wastebeds that manifests as:

1. A calcium precipitate in Ninemile Creek beginning in the vicinity of the confluence with Beaver Meadow Brook (Airport Road overpass);
2. A marked increase in total dissolved solids (TDS), temperature, and conductivity in a discrete area along Wastebed 11;
3. A more gradual increase in TDS between NM3 and NM4 alongside Wastebeds 9-11; and
4. Elevated concentrations of TDS and other Solvay waste constituents in Iron Brook.

There is also evidence of calcified material in the Ninemile Creek bed, particularly along the northern creek bank adjacent to Wastebeds 9-11. It is likely that a major portion of this material accumulated while the wastebeds were actively being loaded, and there was a significant discharge of supernatant and leachate from the beds. Other than Solvay waste constituents, there is little evidence of contamination by metals (*e.g.* mercury) or organic compounds in the SAA, except for iron staining and precipitate around the creek riffle and pool sequence that runs along the southern edge of Wastebed 11.

Regarding wetlands, it is unlikely that the Hudson Farm property, Beaver Meadow Brook, and the portion of Wetland CAM 21 associated with the brook have been affected by the wastebeds as they are on the opposite side of Ninemile Creek from the wastebeds (**Figure 1**). Ninemile Creek likely acts as a groundwater divide for shallow groundwater. Therefore, Site groundwater discharges directly to Ninemile Creek rather than migrating beneath the creek. It is possible that the portion of Wetland CAM 21 located on the south side of the creek may receive groundwater associated with Wastebed 13 located to the south and east. Upstream of the Hudson Farm property, groundwater impacts are unlikely because the wetland is located further away from the wastebeds. Wetland CAM 25 is located upstream of the Amboy Dam and hydrogeologically upgradient of the potential area of influence of Wastebeds 9-15 and is unlikely to historically or currently receive run-off or groundwater discharges from the wastebeds.

Ninemile Creek within the SAA provides good habitat for fish and invertebrate species, particularly where abundant deadfalls, shaded areas, submerged aquatic vegetation, and logjams are present. One area where these were observed is located upstream of the Airport Road overpass. While the lower portion of the SAA (from the Airport Road overpass to the confluence with Geddes Brook) is partially channelized and dominated by common reed along the banks, shallow areas in pools and riffles of this reach and slow areas support submerged aquatic vegetation and associated small fish, invertebrates, and tadpoles. The deeper areas are likely to harbor larger fish.

Overall, the primary impact to the SAA from the wastebeds is associated with Solvay waste, which may manifest as calcium precipitate in the substrate of the Ninemile Creek bed or banks from groundwater/leachate discharges or in physical form as a whitish gray material deposited in the floodplain from run-off from the wastebeds.

3. PHASE 1 INVESTIGATION METHODS

The Phase 1 Investigation consisted of a qualitative assessment of the natural resources in the immediate vicinity of the Site and physical and biological characterization of the selected reaches of Ninemile Creek. The objectives of the investigation were to evaluate potential impacts caused by Solvay waste on these resources and define the areal extent and scope of potential future investigations. The Phase 1 Investigation was performed in accordance with the SAA scope of work presented in the Closure Investigation Work Plan, which was approved by the NYSDEC. Tasks associated with the Phase 1 Investigation are described below.

3.1. NINEMILE CREEK

3.1.1. Physical and Biological Characterization Methods

Ninemile Creek was evaluated following the protocol detailed in the *United States Department of Agriculture National Water and Climate Center Technical Note 99-1 Stream Visual Assessment Protocol* (USDA, 1998). The USDA protocol calls for assessment of one representative stream reach (twelve times the active channel width of the subject waterbody), but recommends assessment of additional reaches if conditions change dramatically along the stream. The SAA portion of Ninemile Creek was estimated to be 14,000 ft long and have an average active channel width of approximately 40 ft, resulting in a calculated representative reach length of 480 ft.

For the purpose of this investigation, assessments were conducted at a Reference Reach just below Amboy Dam and at six stream reaches (Reaches A through F) ending at approximately the upstream boundary of the Geddes Brook/Ninemile Creek Remediation Site OU1 . General reach locations (**Figure 1**) were selected during a Site visit conducted on July 22, 2009 by NYSDEC and O'Brien & Gere personnel. Ninemile Creek was surveyed from canoes, and the subject reaches were identified (and recorded with GPS) as representative of the SAA portion of Ninemile Creek and included locations with the potential to be impacted by Solvay waste.

Completed *Stream Visual Assessment Forms* for each reach (Forms 1 through 7) are included with this report as **Appendix A**. The *Stream Visual Assessment Form* consists of two principal sections: reach identification and assessment. The reach identification section records basic information about the reach, such as name, location, active channel width, and land uses. Space is provided for a diagram of the reach, which may be useful to locate the reach or illustrate notable features. The assessment section is used to record the scores for up to 15 assessment elements. Of the 15 elements, the protocol describes ten basic elements of the stream physical characterization that may be scored during each assessment. These elements are channel condition, hydrologic alteration, riparian zone, bank stability, water appearance, nutrient enrichment, barriers to fish movement, instream fish cover, pools, and insect/invertebrate habitat. The remaining five elements were scored if applicable. These elements include canopy cover, manure presence, salinity, riffle embeddedness, and benthic macroinvertebrates observed. For this assessment, manure presence was not evaluated, canopy cover was not evaluated if the reach active channel width was greater than 50 ft, and riffle embeddedness was not assessed if no riffles were present in the reach.

The benthic macroinvertebrate community for each reach was described from samples collected using a D-frame kicknet. Beginning at the downstream end of the reach, benthic macroinvertebrate samples were collected from the left, center, and right sides of the creek and placed in a bucket. This procedure was repeated at the midpoint of the reach and upstream end of the reach until a total of three transects (nine samples) were collected and composited into one sample representing the entire reach. Larger debris was removed from the sample in the field, and the sample was placed in a 1-L jar and preserved in 95% ethanol for transportation back to the laboratory. In the laboratory, all macroinvertebrate specimens were separated from substrate and identified primarily to the Order level in accordance with the *Stream Visual Assessment Protocol* (USDA, 1998). Organism frequencies were tallied and individuals were stored in 95% ethanol and separated by stream reach and taxonomic group.

Identified macroinvertebrates were categorized into one of three pollution tolerance groups: Group I (intolerant), Group II (facultative), or Group III (tolerant). Specimens were assigned a Group I score of 15, a Group II score of 6, or a Group III score of 2. For this assessment, the reach macroinvertebrate score was calculated as the weighted mean of the three groups collected.

The overall score for a reach was determined by adding the values of the elements assessed (total assessment score) and dividing by the number of elements assessed. This value provides a numerical evaluation of the environmental condition of the stream reach and can be used as a general statement about the condition of the stream (poor, fair, good, or excellent) or as an indicator of trends in condition over time.

Ninemile Creek surface water was also evaluated. Dissolved oxygen, conductivity, temperature, turbidity, oxidation reduction potential (ORP), TDS, and pH were measured and recorded using a Horiba U-52 direct reading instrument. The unit was calibrated by the laboratory prior to acquisition and at the beginning of each day in the field.

3.2. OTHER WATER BODIES

Surface water was evaluated in Iron Brook, Outfall 019, the Interbed Area, and the Gravel Pit (**Figure 1**). Dissolved oxygen, conductivity, temperature, turbidity, ORP, TDS, and pH were measured and recorded. Physical characterization and benthic macroinvertebrate sampling were not conducted at these locations, as agreed to by the NYSDEC, due to their lack of biological significance.

Iron Brook is located south of Honeywell's retention ponds. During the Phase 1 SAA investigation, it was being remediated by excavation and the replacement of fill on the north side. Common reed is abundant in this area. The Gravel Pit is an approximately 3.9-acre shallow impoundment vegetated on all sides. Additional information describing the Gravel Pit is not available. Outfall 019 is a 10-ft wide open area with water up to 6 ft deep. The sediment is soft and unconsolidated, and common reed is abundant on both sides of the water body. Recently, a chain link fence was constructed preventing access to the outfall from the adjacent dirt road.

The Interbed Area is an approximately 7.6-acre area between Wastebeds 9/10 and Wastebeds 11 that collects storm water run-off from the surrounding wastebeds and from property north of the Interbed Area. Its banks are low and vegetated, and a gravel berm/roadway separates it from Ninemile Creek. Water collected within the Interbed Area was discharged to Ninemile Creek via two 24-inch culvert pipes (Outfall 011) situated at the south end of the Interbed Area until 1997 when the culvert pipes were plugged. Occasional flooding of the properties north of the Interbed Area during storm events resulted in periodic pumping of storm water run-off collected in the Interbed Area directly into Ninemile Creek (O'Brien & Gere, 2009). Since 2000, storm water run-off from the property north of the Interbed Area has been discharged to Ninemile Creek via a new 24-inch culvert. Since 2005, storm water run-off collected in the Interbed Area has been pumped south through the Interbed conveyance pipe to the retention ponds located on Wastebeds 12-15 Site.

3.3. WETLANDS AND FLOODPLAIN

3.3.1. Visual Assessment Methods

Soils of the wetlands and floodplain adjacent to Ninemile Creek were evaluated for the presence of Solvay waste. New York State-regulated wetlands immediately adjacent to the Site consist of CAM 21 and CAM 26, which are located west of the Site, and SYW-18 that is located south of Wastebeds 9/10. State-regulated boundaries are shown on **Figure 1**. The 100-year flood boundaries adjacent to Ninemile Creek, as demarcated by the Federal Emergency Management Agency's (FEMA) *Flood Insurance Study* (1981), were utilized to define the areal extent of the floodplain areas assessed for this effort (**Figure 1**).

The wetlands and floodplain were traversed by foot, beginning in areas nearest to the wastebeds, and progressing further from the wastebeds until no evidence of Solvay waste was encountered. During the reconnaissance, a qualitative assessment of the soil was conducted at multiple locations, focusing on potential settling or depressional areas, by advancement of a borehole with a hand-held Dutch auger to a maximum depth of 18 inches (or refusal). Substrate color, texture, and structure, as well as the presence and location (within the horizon) of Solvay waste (if present), were evaluated. Areas exhibiting potential impacts from Solvay waste were recorded. Indicators of Solvay waste included, but were not limited to, soils resembling a white to gray chalky or paste-like matrix and/or areas sparsely vegetated or devoid of vegetation. Results of the visual and biological assessments are presented in Section 4.1.

4. PHASE 1 RESULTS AND RECOMMENDATIONS

This section provides the results of the field investigations performed at Ninemile Creek, other water bodies, and adjacent wetlands and floodplain of the SAA. The physical and biological characterization of Ninemile Creek and other water bodies was conducted in October 2011 shortly after several days of significant rain. Ninemile Creek surface water levels, velocities, and turbidity were all higher than normal for that time of year but were not considered flood conditions. The weather during the Ninemile Creek investigation was generally overcast with minimal precipitation.

4.1. NINEMILE CREEK

Six representative reaches and one reference reach were assessed to characterize the approximately 14,000-ft long stretch of Ninemile Creek within the SAA (**Figure 1**). Reach locations were selected during a Site visit conducted in July 2009 by NYSDEC and O'Brien & Gere personnel as representative of the SAA portion of Ninemile Creek and included locations potentially impacted by Solvay waste. Reach locations and descriptions are summarized below. **Appendix A** contains the stream visual assessment forms completed for each reach.

4.1.1. Reach Physical Characterization

Reference Reach

Amboy Dam defines the upstream boundary of the SAA. The upstream boundary of the Reference Reach was located 30 ft downstream of the bridge at Amboy Dam. Land use within the reach drainage area consisted of approximately 70% forest and 30% residential property. The active channel width was 50 ft. Substrate within the Reference Reach consisted of coarse sand with some silt, and gravel and cobble were abundant with a few boulders (**Appendix A, Form 1**). Banks on either side were approximately 3 ft to 8 ft high and moderately vegetated.

Reach A

Reach A is located approximately 1,300 ft north (downstream) of the Reference Reach. Land use within the reach drainage area consisted of 100% forest. The active channel, containing mostly riffles and runs, was measured at 48 ft wide. Substrate within Reach A consisted of coarse sand with gravel, cobble, some boulders, and coarse woody debris (logs) (**Appendix A, Form 2**). The creek banks along the reach were 1 ft to 3 ft high with mostly bare soil and exposed root systems from the dense vegetation on the top of the bank and adjacent floodplain.

Reach B

Reach B is located approximately 2,600 ft downstream of Reach A and south of the Hudson Farm property. Land use within the reach drainage area consisted of approximately 90% forest and 10% roadway. The active channel width was measured at 49 ft and contained a mixture of riffles and runs. Substrate within Reach B was mostly silt with some rubble and abundant vegetation and woody debris (**Appendix A, Form 3**). On the western bank of the reach, stands of common reed and stinging nettle (*Urtica dioica*) were observed as well as fallen logs. A yellow bullhead (*Ameiurus natalis*) was collected during benthic macroinvertebrate sampling and released.

Reach C

Reach C is located approximately 4,000 ft downstream of Reach B. Land use within the reach drainage area consisted of 100% forest. The active channel was mostly a run with few riffles and depositional areas and measured at 49 ft wide. Substrate within Reach C was generally soft, mostly silt with some gravel and cobble and abundant woody debris (**Appendix A, Form 4**). Mats of thick leaf matter were encountered in depositional areas of the reach. Banks on the southeast side of Reach C were steep and excised, vegetated mostly with trees and shrubs, and contained exposed root systems. Banks on the northwest side were low and heavily vegetated with grasses (mostly reed canary grass), and with saplings and trees further inland from the bank. While no direct evidence of Solvay waste (*e.g.*, seeps and calcite formations) was observed during the stream assessment, a whitish "lens" of material was observed within the northwestern bank a few inches under the surface water line (Section 4.1.4 below).

Reach D
Reach D is located approximately 1,600 ft downstream of Reach C and along the central portion of the southern berm of Wastebed 11. Land use within the reach drainage area consisted of approximately 50% forest and 50% roadway/wastebed berm. The active channel was mostly straight with few riffles and measured at 61 ft wide. Substrate within Reach D was predominantly calcite with some gravel, along with some coarse woody debris (**Appendix A, Form 5**). Seeps were observed along the northern shore of Reach D. Low vegetated floodplains were present on either side of portions of the reach. Three blacknose dace (*Rhinichthys attratulus*) and one tessellated darter (*Etheostoma olmstedi)* were collected during benthic macroinvertebrate sampling and released.

Reach E
Reach E is located approximately 1500 ft downstream of Reach D and along the southern berm of Wastebed 11. Land use within the reach drainage area consisted of approximately 50% forest and 50% roadway/wastebed berm with an unvegetated bank. The active channel width was measured at 62 ft wide and straight/channelized. Banks ranged between 4 and 10 ft high. Substrate within Reach E was predominantly calcite and clay with some silt and gravel with sparse submerged aquatic vegetation (**Appendix A, Form 6**). The majority (approximately 75%) of the northern bank of Reach E was unvegetated below an existing concrete wall and seeps were numerous along the northern bank. A 150-ft long concrete and wooden bridge abutment was present over a portion of the northern bank. Common reed was abundant along the southern bank. One tessellated darter was collected during benthic macroinvertebrate sampling and released.

Reach F
Reach F, which is the furthest downstream of all of the reaches, is located approximately 2,200 ft downstream of Reach E and between the Interbed Area and the upstream OU1 remediation boundary of the Ninemile Creek Site. Land use within the reach drainage area consisted of approximately 80% wastebed and 20% emergent wetland (SYW 18) currently under remediation. The active channel width was measured at 45 feet with banks approximately 5 ft in height. Substrate within Reach F consisted of predominantly calcite, with some clay and gravel (**Appendix A, Form 7**). The berm of Wastebeds 9-10 is located along the northern bank of Reach F.

4.1.2. Reach Biological Characterization

Table 1 provides a summary of the benthic macroinvertebrate catch by reach and taxonomic group. A total of 1066 macroinvertebrates were collected and identified, primarily to the Order level, in this investigation. Reach sample sizes averaged 152 specimens and ranged between 21 and 291 specimens. **Table 2** provides a description of the benthic macroinvertebrate community by reach and tolerance group.

Benthic macroinvertebrate samples from the Reference Reach and Reach A comprised predominantly Group I (Intolerant) organisms such as caddisflies (Order *Trichoptera*). Samples from Reaches B, D, E, and F primarily comprised Group II (Facultative) organisms, mostly scuds (Order *Amphipoda*). Finally, the sample from Reach C comprised predominantly Group III (Tolerant) organisms such as aquatic worms (Class *Oligochaeta)* and scuds. Reach benthic macroinvertebrate scores were highest at the Reference Reach and Reach A, and were lower at the downstream reaches.

4.1.3. Reach Overall Scores

Table 3 provides the assessment element, total, and overall scores by reach. Overall scores were highest at the Reference Reach and Reach A, and declined as reach locations progressed further downstream. The Reference Reach and Reach A received scores of Excellent, Reach B received a score of Good, Reaches C and D received scores of Fair, and Reaches E and F received scores of Poor. The three reaches furthest downstream and receiving three of the four lowest scores were located along the southern edge of Wastebeds 9-11. These were also reaches characterized by calcite formations and seeps, as well as channelization, and poor instream fish cover. Calcite is a result of calcium carbonate that was historically discharged or leached from the Solvay waste in the wastebeds and precipitated out of solution. Precipitates on the creek bed form a hard calcite layer over

the existing substrates (Effler *et al*. 1991). These conditions appear to inhibit plant growth and provide limited interstitial spaces for benthic macroinvertebrate colonization.

The elements mainly responsible for the decline of overall reach scores from upstream reaches to downstream reaches were channel condition, instream fish cover, pools, invertebrate habitat, and invertebrates observed. For these elements, there was a decrease of 70 to 90% between the highest and lowest scores within an element. Channelization and calcite deposition are likely significant factors related to the decline in scores for these elements.

4.1.4. Additional Findings

Stream visual assessments documented the presence of seeps along the northern bank of Ninemile Creek at each of the three lower reaches (Reaches D, E, and F). Seeps were characterized by discolored bank substrate extending from the top of the bank down to the water's edge and, in some areas, continuing into the channel. Seeps varied in size ranging from as small as 3 ft in bank length to almost the entire northern bank of one reach (Reach E). As part of the overall closure program for the Wastebeds 9-15 Site, Honeywell has initiated mitigation projects to address these observed seeps adjacent to Ninemile Creek.

Upstream of the seeps, a whitish "lens" was identified in Ninemile Creek near Reach C located between the old railroad trestle bridge and the southwest corner of Wastebed 11. The lens was first observed during the Site reconnaissance conducted on July 22, 2009, and was revisited on November 9, 2011. The lens was located along the northern bank in Reach C approximately 18 inches below the water surface (**Figure 1**). The lens measured approximately 75 ft in length in 2011, which was much greater than what was observed in 2009 (approximately five ft in length). Flags were placed demarcating each end of the lens and soil borings were conducted in the creek bank in an effort to intercept the lens. Soil borings did not provide any evidence suggesting the material composing the lens extended into and beyond the creek bank. The lens was not evident during the Ninemile Creek stream visual assessment conducted in July 2011 due to high water.

Calcite formations observed only in the three downstream reaches were variable in extent. In general, calcite formations covered creek substrates along the north bank and extended out into the channel, often approaching or even extending to the south bank. These formations were generally co-located with the former supernatant decant discharges from the wastebeds into the creek. Because this scope of work did not include quantifying the extent of calcite formation, it is difficult to estimate with any certainty what percentage of each reach's substrate was covered by calcite. Calcite formations were not observed in reaches upstream of Reach D.

4.2. SURFACE WATER EVALUATIONS

A summary of the surface water parameter measurements for Ninemile Creek and the other water bodies is presented in **Table 4**. For Ninemile Creek, the only notable trends were increases in conductivity and TDS from upstream reaches to downstream reaches. As reported in Effler *et al*. (1991), such increases may be due to leachate and/or surface water run-off from the wastebeds bordering the lower reaches of the creek.

4.3. WETLANDS AND FLOODPLAIN

Wetland and floodplain soils and vegetative communities of the SAA were evaluated for the presence of Solvay waste on four dates in November 2011 and April 2012. This evaluation documented evidence of Solvay waste in four areas within the SAA, located adjacent to Wastebeds 9/10 and Wastebed 11 as shown on **Figure 1** and described below.

A seep (Seep 1) was identified in the swale running parallel to, and near the midpoint of, the northern border of Wastebeds 9/10 (**Figure 1**). An area measuring approximately five to six feet in length with a whitish appearance and exhibiting evidence of calcification was evident below the flowing seep.

Soil borings adjacent to a seep (Seep 2) in a secondary swale located towards the western end of the Wastebeds 9/10 northern border and northeast of the Interbed Area showed evidence of Solvay waste (**Figure 1**). Soil profiles exhibited a tan/whitish coloration extending from a few inches below the soil surface to 10 inches deep.

Soil borings adjacent to a second seep (Seep 3) in a swale running parallel to the northern border of Wastebed 11 showed evidence of Solvay waste (**Figure 1**). Soils one to three inches below the surface appeared whitish. Additionally, a pond located immediately west of this area also showed evidence of Solvay waste as surface waters appeared whitish throughout most of the pond. However, swale soil borings to the east of this area and within the floodplain did not provide evidence of Solvay waste.

Other than these three seep areas and the previously described "lens" area observed along the left bank of Ninemile Creek near Reach C, remaining wetland, floodplain and surface water areas evaluated did not reveal physical evidence of Solvay waste.

4.4. PHASE 2 INVESTIGATIONS

Based on the results of the Phase 1 SAA Investigation, recommendations for additional surface water and sediment sampling were developed and provided to NYSDEC as a Letter Work Plan on July 5, 2012. The results of that sampling are provided in Section 5.1.4 and 5.1.5 of the Wastebeds 9-15 Closure Investigation Report.

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Tables

Table 1
Honeywell
Wastebeds 9-15 Site Phase 1 Surrounding Affected Area Investigation
Ninemile Creek Benthic Macroinvertebrate Catches by Reach and Taxonomic Group

Common Name	Family/Order	Reference Reach	Reach A	Reach B	Reach C	Reach D	Reach E	Reach F
Caddisfly	Trichoptera	131	179	8	0	64	3	8
Mayfly	Ephemeroptera	1	17	2	1	0	0	0
Stone Fly	Plecoptera	3	0	0	0	0	0	0
Riffle Beetle and Larvae	Coleoptera	11	11	5	0	3	0	13
Dobsonfly	Corydalidae	5	4	1	0	2	0	0
Water Penny	Coleoptera	0	1	0	0	1	0	0
Right Facing Snail	Gastropoda	1	2	0	0	1	0	0
Amphipod	Amphipoda	51	69	120	9	77	16	117
Sowbugs	Isopoda	2	1	2	0	2	2	13
Cranefly	Nematocera	1	0	0	0	0	0	0
Watersnipe fly	Athericidae	1	0	0	0	1	0	0
Crayfish	Decapoda	0	2	1	0	1	0	0
Dragon Fly Larvae	Anisoptera	0	0	0	0	1	0	0
Left Facing Snail	Gastropoda	0	0	0	0	1	0	0
Midge fly	Nematocera	0	5	7	4	7	0	8
Blackfly	Simulidae	0	0	1	0	8	0	0
Aquatic Worm	Oligochaeta	0	0	6	28	1	0	20
Fishing Spider	Pisauridae	0	0	0	1	0	0	0
True Bugs	Hemiptera	0	0	0	0	0	0	2

Table 2
Honeywell
Wastebeds 9-15 Site Phase 1 Surrounding Affected Area Investigation
Ninemile Creek Benthic Macroinvertebrate Tolerance Group[1] Totals by Reach

Reach	Group 1	Group 2	Group 3	Dominant Group
Reference	152	55	0	1
A	214	72	5	1
B	16	123	14	2
C	1	9	32	3
D	71	82	17	2
E	3	18	0	2
F	21	130	28	2

[1] Group 1 - Pollution Intolerant, Group 2 - Facultative, Group 3 - Pollution Tolerant, from USDA Stream Visual Assessment Protocol (USDA 1998).

Table 3
Honeywell
Wastebeds 9-15 Site Phase 1 Surrounding Affected Area Investigation
Ninemile Creek Stream Assessment Scoring Summary[1]

Reach	Date	Active channel width (ft)	Channel condition	Hydrologic alteration	Riparian zone	Bank stability	Water appearance	Nutrient enrichment	Barriers to fish movement	Instream fish cover
Reference	10/4/11	50	10	10	10	10	7	8	10	8
A	10/4/11	48	10	10	10	10	7	8	10	10
B	10/4/11	49	8	7	10	7	7	7	10	5
C	10/5/11	56	5	7	10	8	7	7	10	3
D	10/3/11	61	5	7	8	8	7	7	10	5
E	10/3/11	62	3	5	8	8	7	7	10	3
F	10/3/11	45	4	7	7	8	7	7	10	1

Reach	Pools	Invertebrate habitat	Canopy cover[2]	Salinity	Riffle embedd.[3]	Invertebrates observed	Total	Overall score	Overall rating[4]
Reference	7	10	8	5	10	13	126	9.0	Excellent
A	7	10	9	5	10	13	129	9.2	Excellent
B	7	10	7	5	NA	7	97	7.5	Good
C	1	7	NA	5	NA	3	73	6.1	Fair
D	1	7	NA	5	3	9	82	6.3	Fair
E	1	5	NA	5	3	7	72	5.5	Poor
F	1	3	3	5	NA	6	69	5.3	Poor

Notes:

[1] Assessment parameters and scores based on USDA Stream Visual Assessment Protocol (USDA 1998).

[2] If active stream width was greater than 50 ft, canopy cover was not assessed (NA).

[3] If no riffles were present in the reach, riffle embeddedness was not assessed (NA).

[4] Rating: Poor ($\leq$6.0), Fair (6.1-7.4), Good (7.5-8.9), and Excellent ($\geq$9.0).

Table 4
Honeywell
Wastebeds 9-15 Site Phase Surrounding Affected Area Investigation
Surface Water Quality Parameters of Ninemile Creek and Other Water Bodies

Reach	Depth (feet)[1]	pH	Turbidity (NTU)	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Temperature (°C)	TDS (g/L)
Reference	1.5	8.25	36.90	0.76	238.00	9.64	13.26	0.48
A	1.5	8.48	32.50	0.76	160.00	10.60	13.33	0.49
B	2.0	8.57	30.90	0.77	148.00	9.49	13.51	0.49
C	3.0	8.00	22.70	0.86	232.00	10.56	13.29	0.55
D	2.5	8.58	37.70	0.80	146.00	11.55	13.70	0.51
E	2.5	8.40	40.30	1.04	139.00	11.81	13.56	0.67
F	2.5	8.00	42.90	0.99	129.00	10.86	13.50	0.63
Interbed Area	3.0	7.17	10.70	8.58	168.00	11.31	15.52	5.41
Gravel Pit	2.0	8.10	3.70	1.21	105.00	9.97	15.42	0.77
Outfall 019	NA	7.19	57.10	7.94	NA	7.10	12.90	NA
Iron Brook	1.0	7.70	7.30	2.90	22.00	3.94	12.74	1.95

Notes:

[1] Depth of water where water quality measurements were collected.

Measurements collected on 10/3-5/2011 with a Horiba U-52.

Weather mostly cloudy and in the 60's (°F).

mS/cm = milliSiemens per centimeter

NA= not available

mV = millivolts

NTU = Nephelometric turbidity units

ORP = oxidation reduction potential

DO = dissolved oxygen

TDS = total dissolved solids

See **Figure 1** for sampling locations.

Figure

PATH: I:\Honeywell.1163\STDS\GIS\Sb9\15\MXD\EvidenceOfSW_Locs.mxd

NAME: NewtonJM

DATE: 1/6/2012 10:54:45 AM

FIGURE 1



This document was developed in color. Reproduction in B/W may not represent the data as intended.

LEGEND

- REACH LOCATION
- STATE WETLAND
- 100 YR FLOOD PLAIN
- LOCATIONS EXHIBITING EVIDENCE OF SOLVAY WASTE
- OTHER WATER BODY SAMPLING LOCATIONS

NOTE: UPSTREAM AND DOWNSTREAM REACH LIMITS WERE LOCATED WITH GPS.

HONEYWELL
WASTEBEDS 9-15
PHASE 1 SAA INVESTIGATION
GEDDES AND CAMILLUS, NEW YORK

0 450 900 1,800
Feet

N

SAA SAMPLING LOCATIONS AND INVESTIGATION FINDINGS

JUNE 2012
1163.48127

O'BRIEN & GERE

Appendix

Appendix A
Stream Visual Assessment Forms

Stream Visual Assessment Form

Owner's name: Honeywell Evaluator's name: AJV, KWB, KCS Date: 10/4/2011

Stream name: NineMile Creek Waterbody ID number: P-154-6 (6 NYCRR Part 895)

Reach location: Reference Reach, begins 30 ft downstream of Amboy bridge and extends north

Ecoregion: North Atlantic Coast Drainage area: 300 km^2 Gradient:

Applicable reference site: Reference Reach: Amboy Dam

Land use within drainage(%): row crop 0 hayland 0 grazing pasture 0 forest 70 residential 30

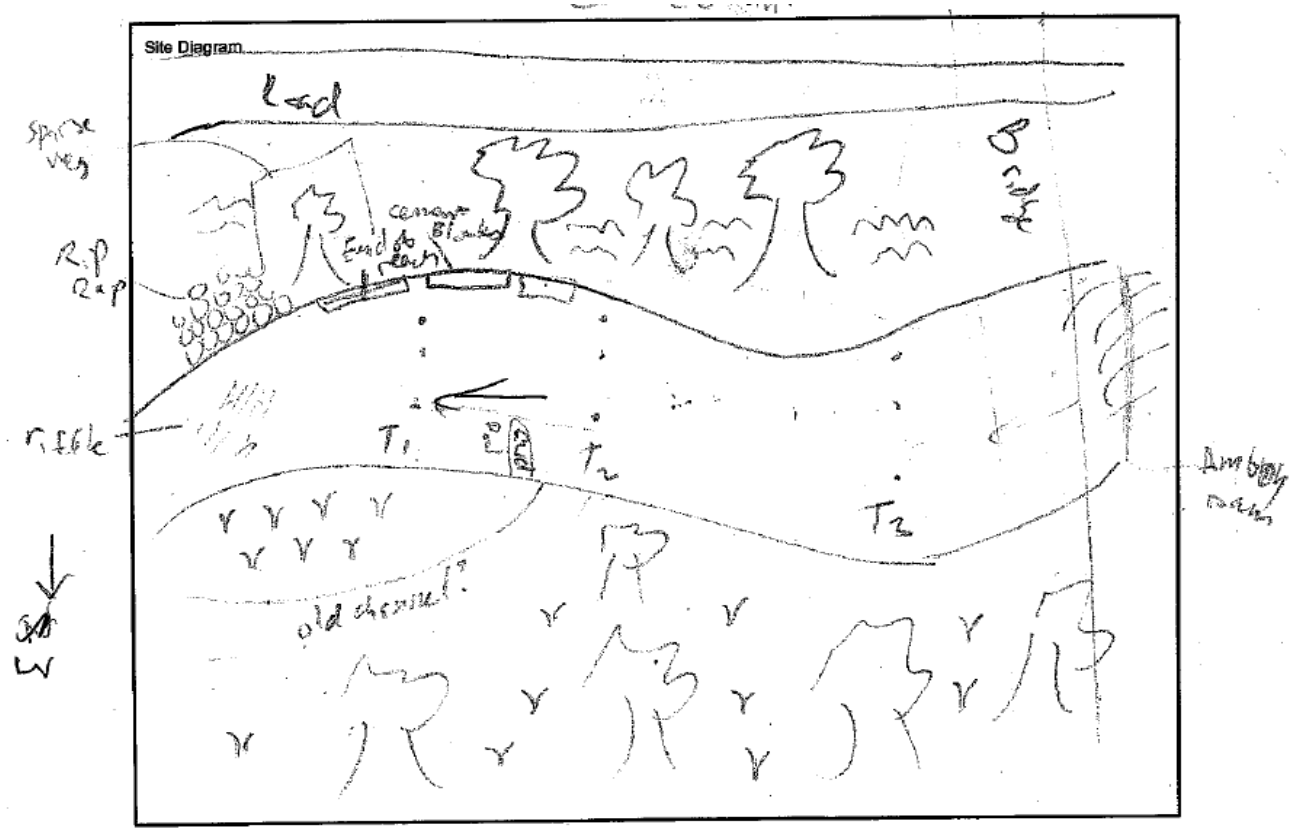
Confined animal feeding operations 0 Conservation Reserve 0 Industrial 0 Other

Weather conditions today: Overcast, light rain, mid-60s °F Past 2-5 days: Moderate rain

Active channel width: 50 feet Dominant substrate (%): boulder x gravel x sand x silt x mud

few boulders, gravel cobble, minimal silt, coarse sand.

Site Diagram:



1) Source: *Stream Visual Assessment Protocol* (USDA 1998)

Stream Visual Assessment Form

Assessment Scores

Channel condition	10
Hydrologic alteration	10
Riparian zone	10
Bank stability	10
Water appearance	7
Nutrient enrichment	8
Barriers to fish movement	10
Instream fish cover	8
Pools	7
Invertebrate habitat	10

Score only if applicable

Canopy cover	8
Manure presence	-
Salinity	5
Riffle embeddedness	10
Macroinvertebrates Observed (optional)	13

Total Assessment Score 126

Overall Score

(Total assessment score divided by number scored) 9

<6.0	**Poor**
6.1-7.4	**Fair**
7.5-8.9	**Good**
>9.0	**Excellent**

Suspected causes of observed problems: Pipe coming out of residence northeast of reach (Sach's property).
100 yds of riprap along eastern bank south of reach along Airport Road.

Recommendations:

Stream Visual Assessment Form

Owner's name: Honeywell Evaluator's name: AJV, KWB, KCS Date: 10/4/2011

Stream name: NineMile Creek Waterbody ID number: P-154-6 (6 NYCRR Part 895)

Reach location: Reach A

Ecoregion: North Atlantic Coast Drainage area: 300 km^2 Gradient:

Applicable reference site: Reference Reach: Amboy Dam

Land use within drainage(%): row crop 0 hayland 0 grazing pasture 0 forest 100 residential 0

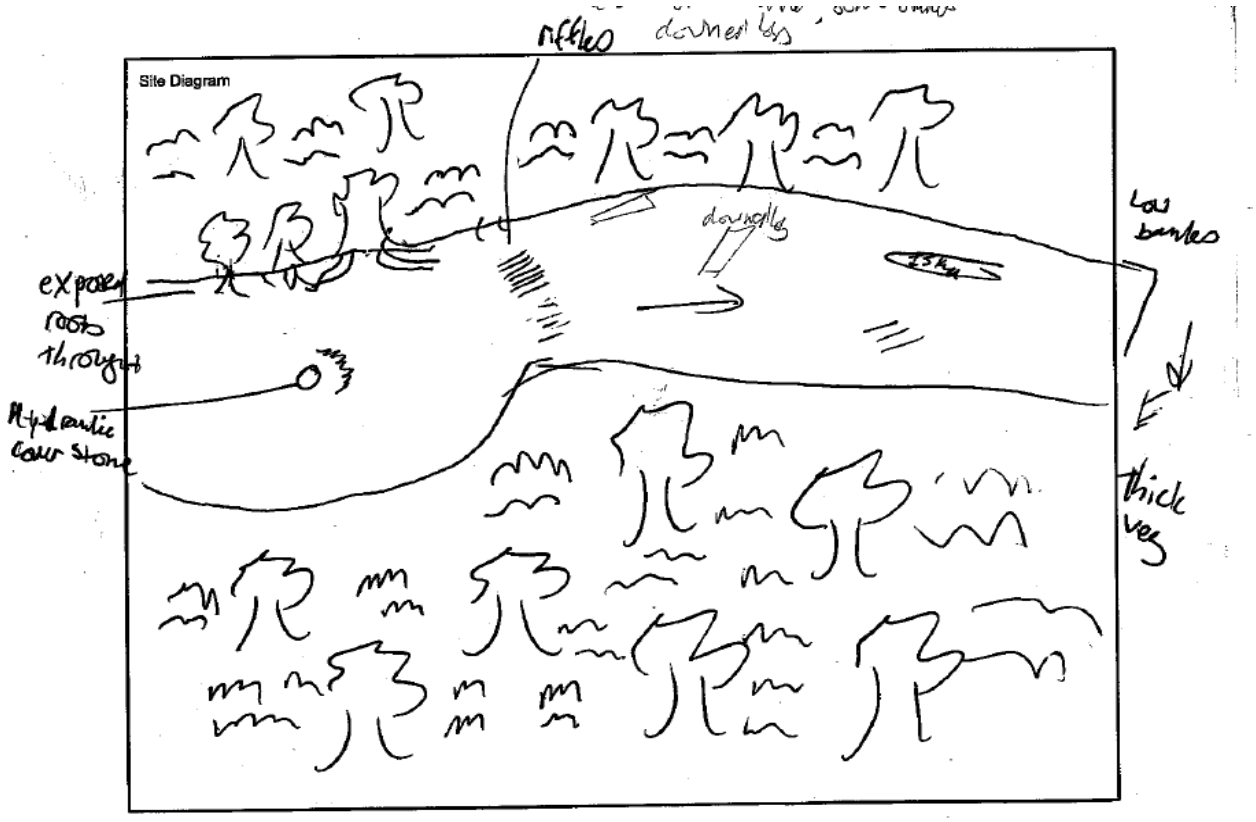
Confined animal feeding operations 0 Conservation Reserve 0 Industrial 0 Other

Weather conditions today: Overcast, mid-60s °F, no wind Past 2-5 days: Moderate rain

Active channel width: 48.23 feet Dominant substrate (%): boulder x gravel x sand x silt x mud

coarse sand, gravel cobble, some boulders, downed logs

Site Diagram:



1) Source: *Stream Visual Assessment Protocol* (USDA 1998)

Stream Visual Assessment Form

Assessment Scores

Channel condition	10
Hydrologic alteration	10
Riparian zone	10
Bank stability	10
Water appearance	7
Nutrient enrichment	8
Barriers to fish movement	10
Instream fish cover	10
Pools	7
Invertebrate habitat	10

Score only if applicable

Canopy cover	9
Manure presence	-
Salinity	5
Riffle embeddedness	10
Macroinvertebrates Observed (optional)	12

Total Assessment Score 128

Overall Score

(Total assessment score divided by number scored) 9.1

<6.0	**Poor**
6.1-7.4	**Fair**
7.5-8.9	**Good**
>9.0	**Excellent**

Suspected causes of observed problems:

Recommendations:

Stream Visual Assessment Form

Owner's name: Honeywell Evaluator's name: AJV, KWB, KCS Date: 10/4/2011

Stream name: NineMile Creek Waterbody ID number: P-154-6 (6 NYCRR Part 895)

Reach location: Reach B

Ecoregion: North Atlantic Coast Drainage area: 300 km^2 Gradient:

Applicable reference site: Reference Reach: Amboy Dam

Land use within drainage(%): row crop 0 hayland 0 grazing pasture 0 forest 90 residential 0

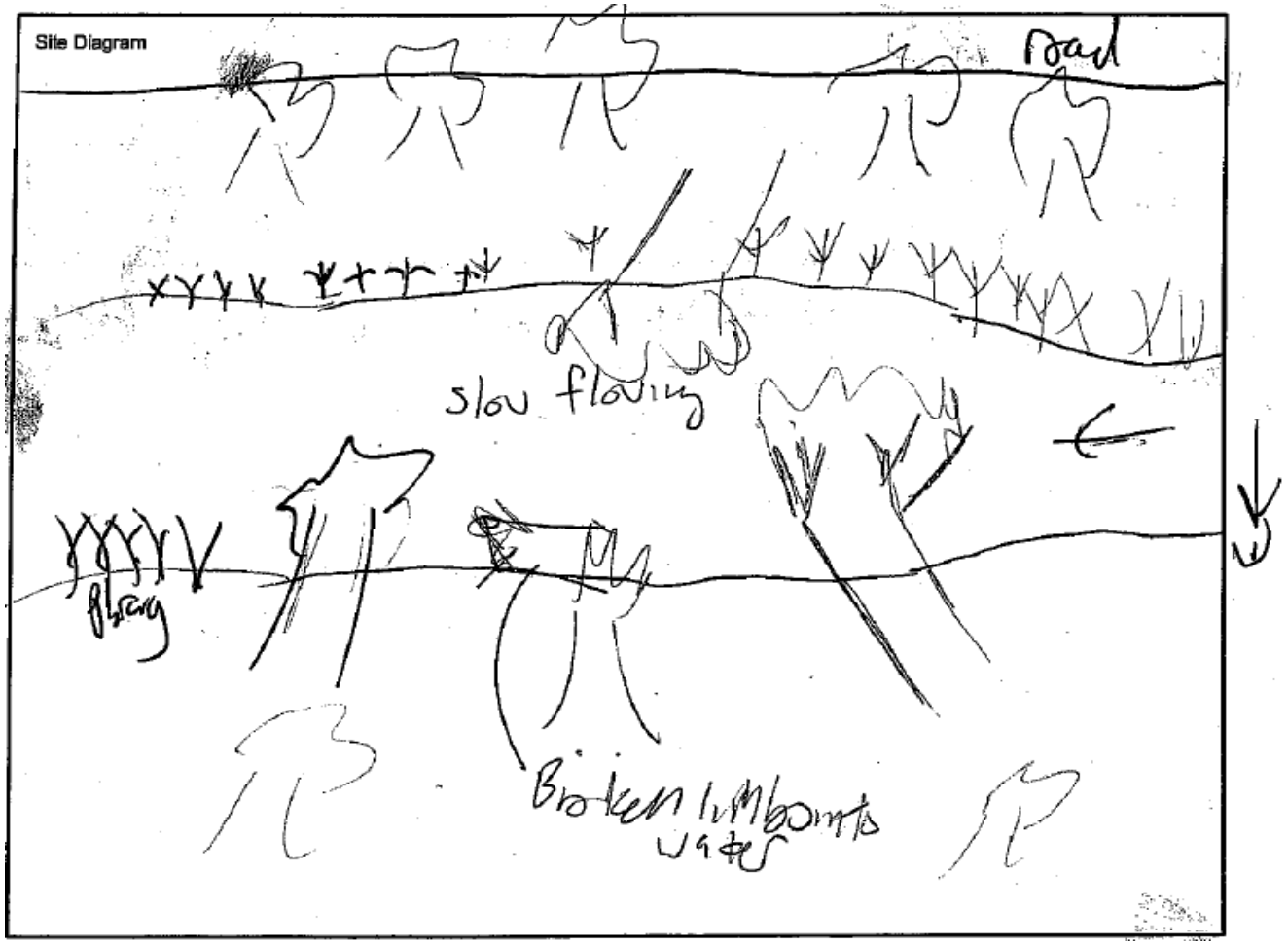
Confined animal feeding operations 0 Conservation Reserve 0 Industrial 0 Other 10 (road)

Weather conditions today: Overcast, mid-60s °F Past 2-5 days: Moderate rain

Active channel width: 49.21 feet Dominant substrate (%): boulder x gravel x sand silt x mud

lots of silt, some rubble, lots of vegetative and woody debris

Site Diagram:



1) Source: *Stream Visual Assessment Protocol* (USDA 1998)

Stream Visual Assessment Form

Assessment Scores

Channel condition	8
Hydrologic alteration	7
Riparian zone	10
Bank stability	7
Water appearance	7
Nutrient enrichment	7
Barriers to fish movement	10
Instream fish cover	5
Pools	7
Invertebrate habitat	10

Score only if applicable

Canopy cover	NA
Manure presence	NA
Salinity	5
Riffle embeddedness	NA
Macroinvertebrates Observed (optional)	7

Total Assessment Score 90

Overall Score

(Total assessment score divided by number scored) 7.5

<6.0	**Poor**
6.1-7.4	**Fair**
7.5-8.9	**Good**
>9.0	**Excellent**

Suspected causes of observed problems: *Phragmites australis* stands on western side of reach, with stinging nettles

Recommendations:

Stream Visual Assessment Form

Owner's name: Honeywell Evaluator's name: AJV, KWB, KCS Date: 10/5/2011

Stream name: NineMile Creek Waterbody ID number: P-154-6 (6 NYCRR Part 895)

Reach location: Reach C

Ecoregion: North Atlantic Coast Drainage area: 300 km^2 Gradient:

Applicable reference site: Reference Reach: Amboy Dam

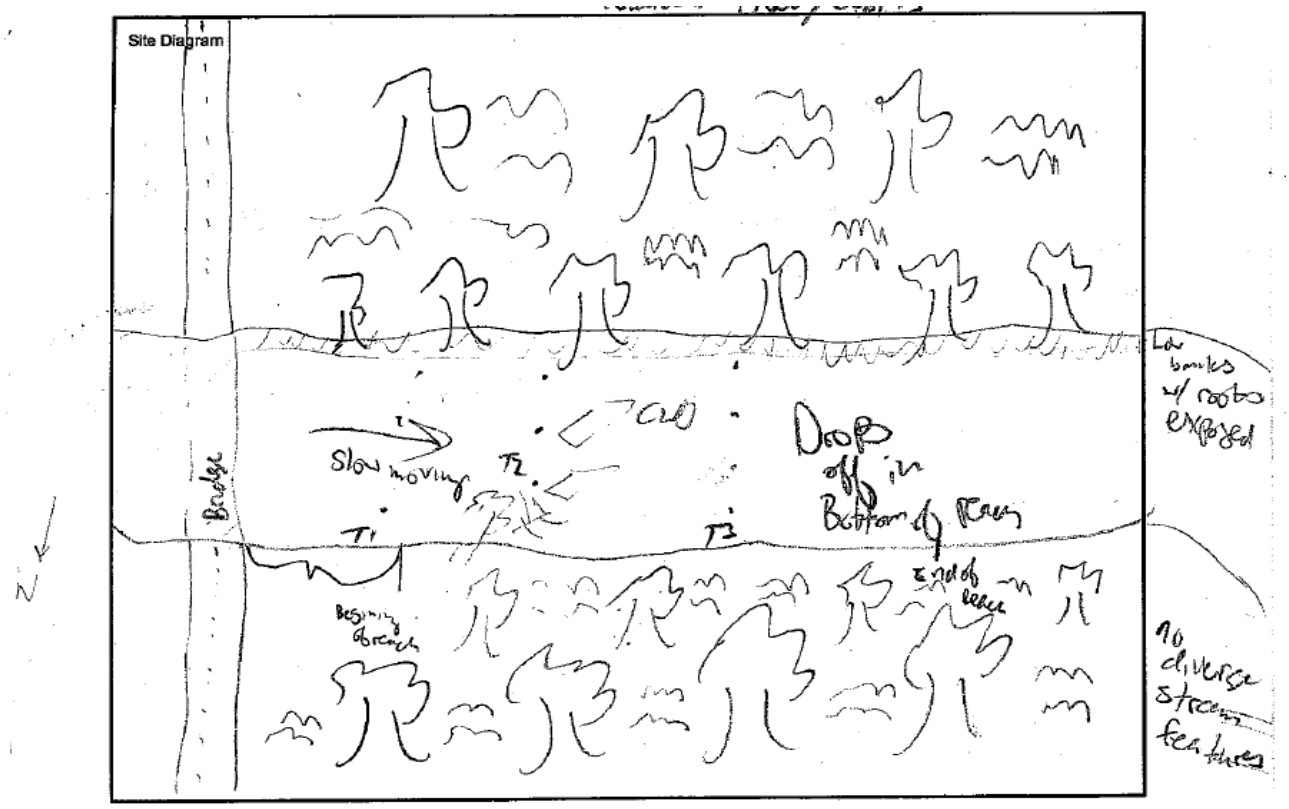
Land use within drainage(%): row crop 0 hayland 0 grazing pasture 0 forest 100 residential 0

Confined animal feeding operations 0 Conservation Reserve 0 Industrial 0 Other

Weather conditions today: Overcast, mid-60s °F, moderate breeze Past 2-5 days: Moderate rain, overcast

Active channel width: 55.77 feet Dominant substrate (%): boulder gravel x sand silt x mud
mostly soft substrate with some gravel/cobble and abundant woody debris

Site Diagram:



1) Source: *Stream Visual Assessment Protocol* (USDA 1998)

Stream Visual Assessment Form

Assessment Scores

Channel condition	5
Hydrologic alteration	7
Riparian zone	10
Bank stability	8
Water appearance	7
Nutrient enrichment	7
Barriers to fish movement	10
Instream fish cover	3
Pools	1
Invertebrate habitat	7

Score only if applicable

Canopy cover	NA
Manure presence	-
Salinity	5
Riffle embeddedness	NA
Macroinvertebrates Observed (optional)	3

Total Assessment Score 73

Overall Score

(Total assessment score divided by number scored) 6.1

<6.0	**Poor**
6.1-7.4	**Fair**
7.5-8.9	**Good**
>9.0	**Excellent**

Suspected causes of observed problems: Channelization

Recommendations:

Stream Visual Assessment Form

Owner's name: Honeywell Evaluator's name: AJV, KWB, KCS Date: 10/3/2011

Stream name: NineMile Creek Waterbody ID number: P-154-6 (6 NYCRR Part 895)

Reach location: Reach D

Ecoregion: North Atlantic Coast Drainage area: 300 km^2 Gradient:

Applicable reference site: Reference Reach: Amboy Dam

Land use within drainage(%): row crop 0 hayland 0 grazing pasture 0 forest 85 residential 0

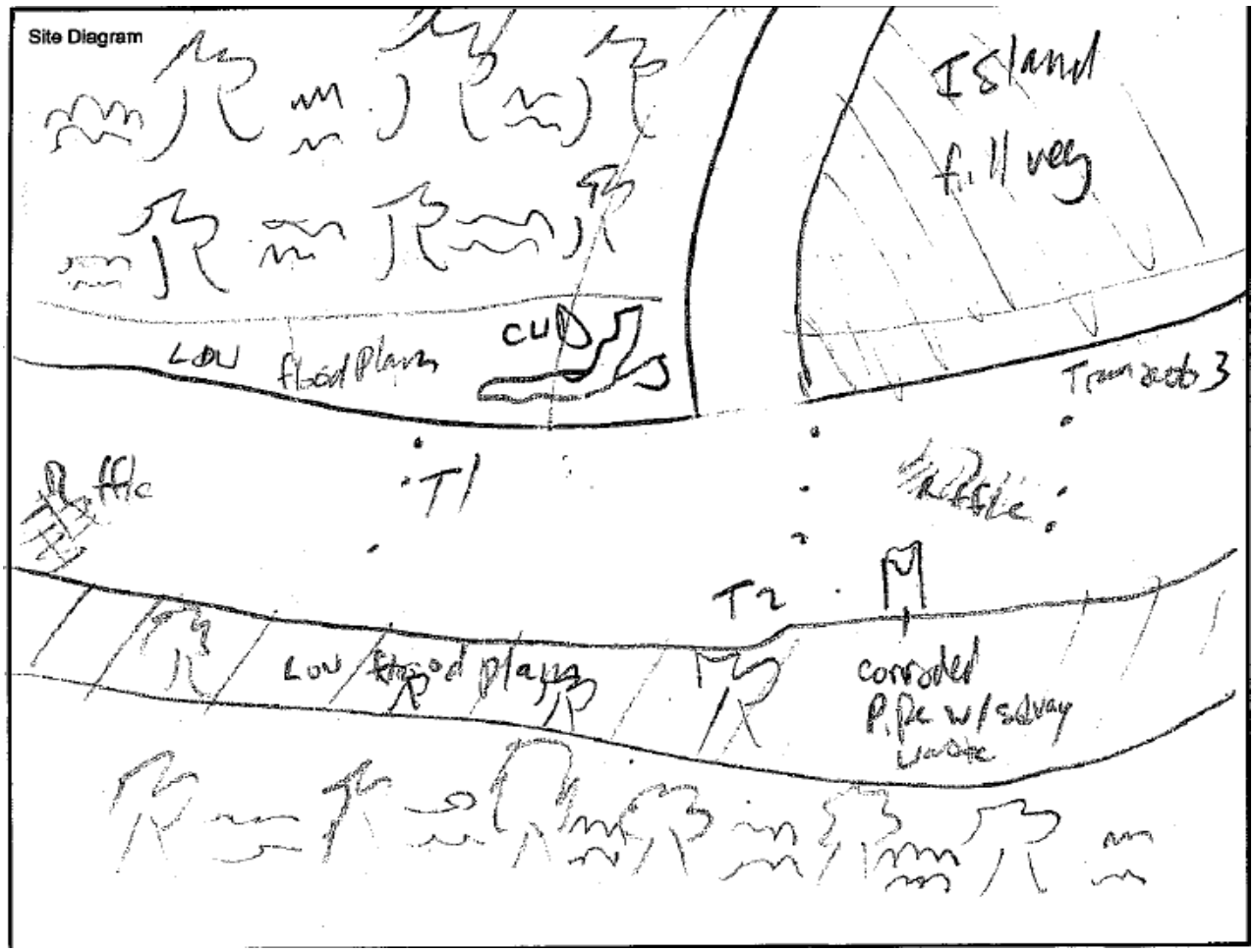
Confined animal feeding operations 0 Conservation Reserve 0 Industrial 0 Other 15 (road)

Weather conditions today: Mostly cloudy, mid-60s °F Past 2-5 days: Moderate rain

Active channel width: 55.77 feet Dominant substrate (%): boulder ____ gravel x sand ____ silt ____ mud ____

mostly Solvay waste/calcite, some gravel

Site Diagram:



1) Source: *Stream Visual Assessment Protocol* (USDA 1998)

Stream Visual Assessment Form

Assessment Scores

Channel condition	5
Hydrologic alteration	7
Riparian zone	8
Bank stability	8
Water appearance	7
Nutrient enrichment	7
Barriers to fish movement	10
Instream fish cover	5

*recent storm

Pools	1
Invertebrate habitat	7

Score only if applicable

Canopy cover * due to stream width	NA
Manure presence	-
Salinity	5
Riffle embeddedness	3
Macroinvertebrates Observed (optional)	9

Total Assessment Score 82

Overall Score

(Total assessment score divided by number scored) 6.3

<6.0	**Poor**
6.1-7.4	**Fair**
7.5-8.9	**Good**
>9.0	**Excellent**

Suspected causes of observed problems: Solvay waste leaching from northern shore; channelized.

Recommendations:

Stream Visual Assessment Form

Owner's name: Honeywell Evaluator's name: AJV, KWB, KCS Date: 10/3/2011

Stream name: NineMile Creek Waterbody ID number: P-154-6 (6 NYCRR Part 895)

Reach location: Reach E

Ecoregion: North Atlantic Coast Drainage area: 300 km^2 Gradient:

Applicable reference site: Reference Reach: Amboy Dam

Land use within drainage(%): row crop 0 hayland 0 grazing pasture 0 forest 75 residential 0

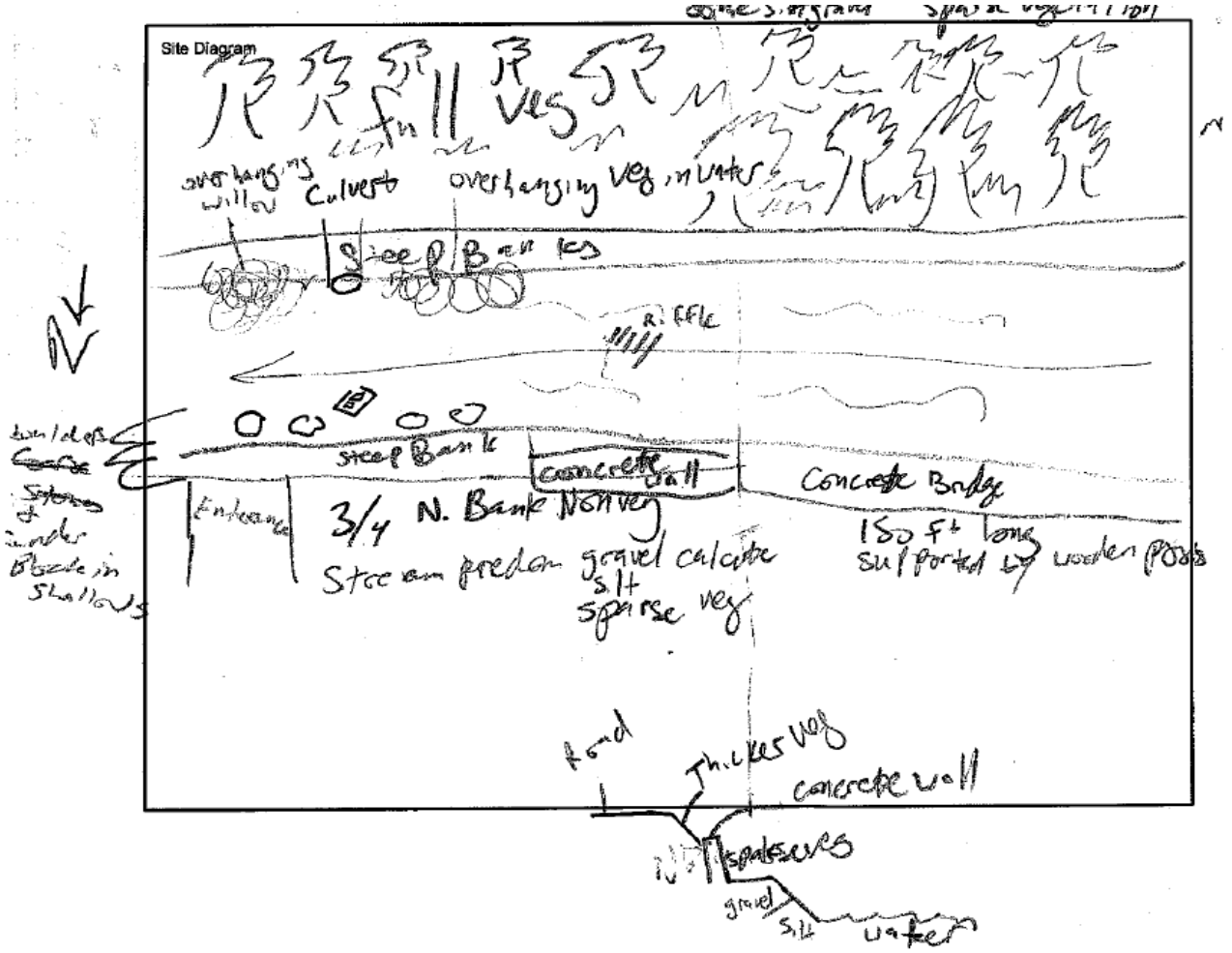
Confined animal feeding operations 0 Conservation Reserve 0 Industrial 0 Other 25 (road, unveg. Bank)

Weather conditions today: Mostly cloudy, mid-60s °F Past 2-5 days: Moderate rain

Active channel width: 62.34 feet Dominant substrate (%): boulder ____ gravel x sand ____ silt ____ mud ____

mostly Solvay waste/calcite and clay, some silt, gravel, and sparse vegetation

Site Diagram:



1) Source: *Stream Visual Assessment Protocol* (USDA 1998)

Stream Visual Assessment Form

Assessment Scores

Channel condition	3	Pools	1
Hydrologic alteration	5	Invertebrate habitat	5
Riparian zone	8		
Bank stability	8		
Water appearance	7	*recent storm	
Nutrient enrichment	7		
Barriers to fish movement	10		
Instream fish cover	3		

Score only if applicable

Canopy cover *due to stream width	NA
Manure presence	-
Salinity	5
Riffle embeddedness * 50%	3
Macroinvertebrates Observed (optional)	7

Total Assessment Score 72

Overall Score

(Total assessment score divided by number scored) 5.5

<6.0	**Poor**
6.1-7.4	**Fair**
7.5-8.9	**Good**
>9.0	**Excellent**

Suspected causes of observed problems: Seeps along entire northern bank.
Culvert at downstream edge
Concrete bridge abutment along north shore of reach

Recommendations:

Stream Visual Assessment Form

Owner's name: Honeywell Evaluator's name: AJV, KWB, KCS Date: 10/3/2011

Stream name: NineMile Creek Waterbody ID number: P-154-6 (6 NYCRR Part 895)

Reach location: Reach F: between Interbed and OU1 boundary

Ecoregion: North Atlantic Coast Drainage area: 300 km^2 Gradient:

Applicable reference site: Reference Reach: Amboy Dam

Land use within drainage(%): row crop 0 hayland 0 grazing pasture 0 forest 20 residential 0

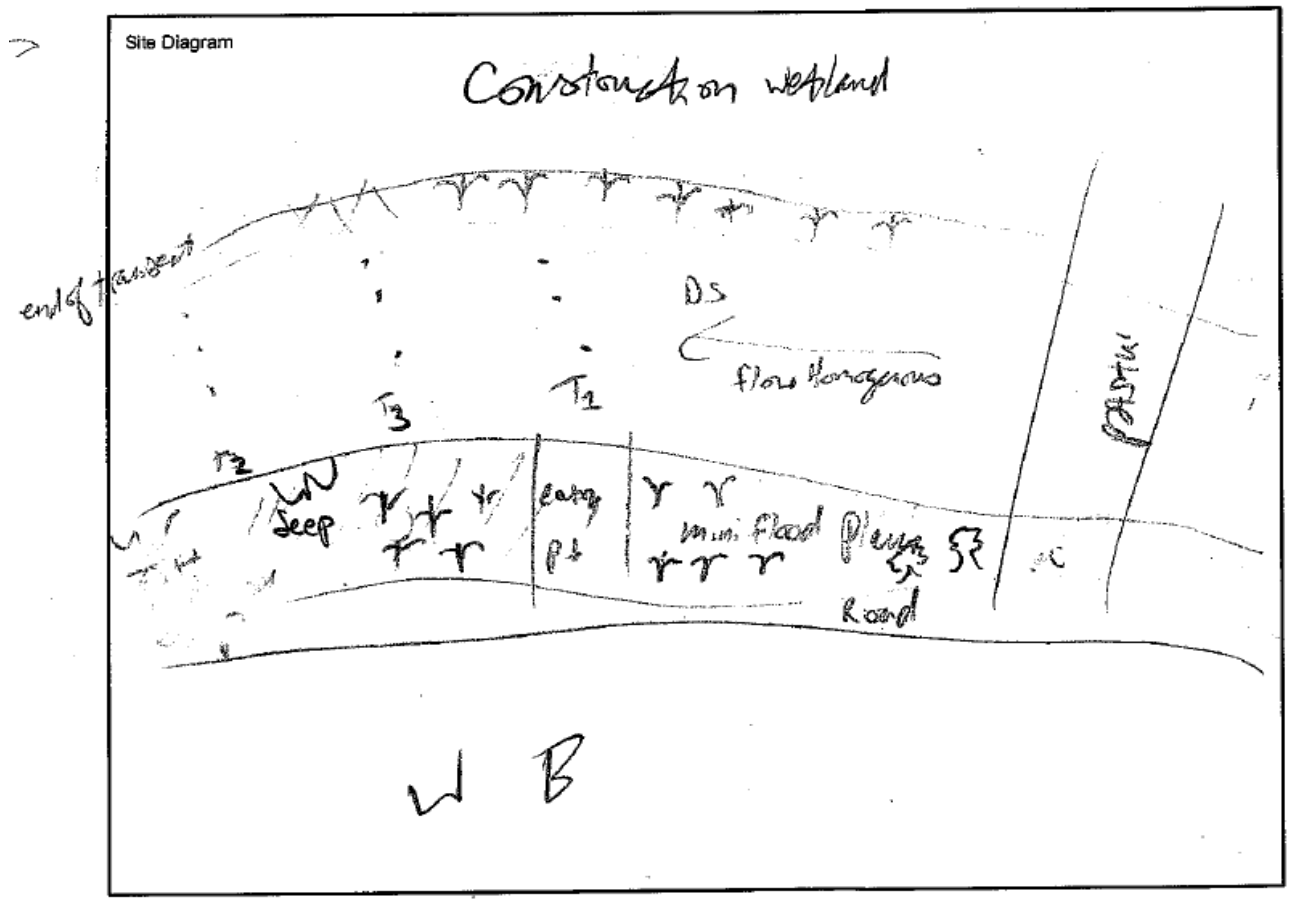
Confined animal feeding operations 0 Conservation Reserve 0 Industrial 0 Other 80 (wastebed and emergent wetland under remediation)

Weather conditions today: Mostly cloudy, light wind, mid-60s °F Past 2-5 days: Moderate rain

Active channel width: 45 ft Dominant substrate (%): boulder gravel x sand silt mud

Predominantly clay with Calcite and gravel

Site Diagram:



1) Source: *Stream Visual Assessment Protocol* (USDA 1998)

Stream Visual Assessment Form

Assessment Scores

Channel condition	4	Pools	1
Hydrologic alteration	7	Invertebrate habitat	3
Riparian zone	7		
Bank stability	8		
Water appearance	7	*recent storm	
Nutrient enrichment	7		
Barriers to fish movement	10		
Instream fish cover	1		

Score only if applicable

Canopy cover	NA
Manure presence	-
Salinity	5
Riffle embeddedness	NA
Macroinvertebrates Observed (optional)	6

Total Assessment Score 66

Overall Score

(Total assessment score divided by number scored) 5.5

<6.0	**Poor**
6.1-7.4	**Fair**
7.5-8.9	**Good**
>9.0	**Excellent**

Suspected causes of observed problems: Solvay wastebeds on northern shore of stream reach.

Recommendations: Reach drainage = lower reach boundary to max line of site upstream of upper boundary of reach.

Solvay waste likely contributor to salinity.

Canopy cover not assessed due to approximate width of active channel and woody vegetation naturally absent.

NA: Not assessed.

Riffle embeddedness not assessed because riffles not present.

Appendix M

SCA Water Treatment Plant Soil Vapor Sampling Technical Memorandum (on CD at end of Appendices)

TECHNICAL MEMORANDUM

TO: Paul Schultz

cc: Mark Distler
Al Labuz

FROM: Christopher Finke

RE: Soil Vapor Sampling
SCA Water Treatment Plant - Wastebed 13
Soil Vapor Sampling Results

FILE: 1163/45613

DATE: June 4, 2011

This technical memorandum summarizes the results of the soil vapor sampling event conducted on behalf of Honeywell by O'Brien & Gere Engineers, at the proposed SCA Water Treatment Plant (WTP) located on Wastebed 13 in Camillus, New York. The soil vapor sampling program was requested by Honeywell to better understand the potential for vapor intrusion at the proposed SCA WTP, and determine the need for a vapor intrusion mitigation system. Sampling consisted of soil vapor sampling at four locations near the corners of the proposed WTP, as shown on Figure 1, at a depth of approximately 5 feet below ground surface (bgs).

In summary, results from the four soil vapor sample locations suggest that soil vapor concentrations would result in indoor air concentrations that are significantly below New York State Department of Health (NYSDOH) decision matrix levels[1] and USEPA Regional Screening Levels (RSLs) for industrial properties[2]. Therefore, a soil vapor mitigation system is not deemed necessary for the WTP building. The following discusses the soil vapor sampling methodology, summarizes the results, and compares the results to the NYSDOH decision matrix levels and USEPA RSLs based on a conservative sub-slab to indoor air attenuation factor.

SAMPLING METHODOLOGY

Soil vapor samples were collected from four locations on February 15, 2011 near each corner of the proposed WTP foundation on Wastebed 13. The samples were collected from sampling points installed at 5 feet bgs at each sampling location and were collected over a 1-hour period. The samples were collected using dedicated stainless-steel soil vapor sampling points, which were installed using a manual drive rod and slide hammer. Each sample point was surrounded by glass beads and connected to Teflon® sample tubing (probe) that extended up to above the ground surface. The annular space around the probe and above the sample point was filled with hydrated bentonite to form a seal. After completion of the probe installation, the probe was purged 2 to 3 volumes before soil vapor sampling was initiated. Helium tracer gas screening at each sample location was conducted before and after sample collection to confirm there were no sample probe leaks. The results of each tracer gas test indicate there was no introduction of ambient air in any of the soil vapor samples. Field forms containing the results of the tracer gas tests as well as sample location descriptions are included as an attachment.

Each soil vapor sample was collected through a flow controller into a 1-liter evacuated stainless steel SUMMA canister over a 1-hour period. After sample collection, all sample canisters were shipped under routine chain-of-custody to a subcontracted laboratory, Test America, located in Burlington, VT where they were analyzed by USEPA Method TO-15 for the standard list of VOC compounds including naphthalene. Test America is certified under the Environmental Laboratory Approval Program (ELAP) for USEPA Method TO-15 analyses. TO-15 analytical results are included as Exhibit 1.

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[1] "Draft Guidance for Evaluating Soil Vapor Intrusion in the State of New York" NYSDOH, 2006.
[2] US EPA Regional Screening Level (RSL) Industrial Air Supporting Table November 2010.

RESULTS AND RECOMMENDATION

Soil vapor samples were successfully collected at all four sampling locations. Table 1 presents sample results in units of micrograms per cubic meter (µg/m^3) for all compounds found above their analytical reporting limits. Also presented are estimated indoor air concentrations, the respective NYSDOH matrices recommendations, and EPA RSLs for industrial indoor air. Estimated indoor air concentrations were derived by applying an attenuation factor to the soil vapor results. The attenuation factor is the ratio of the sub-slab vapor concentration to the indoor air concentration. Please note that since sub-slab vapor data are unobtainable prior to the construction of the WTP, soil vapor sample results were used to estimate indoor air concentrations. For this estimation, an attenuation factor of 10^{-2} was applied to the soil vapor results. Attenuation factors of 10^{-3} to 10^{-5} are typical of buildings with concrete slabs in good condition and without unsealed slab penetrations to the soil (such as unconnected floor drains, utility penetrations, and sumps). Attenuation factors of 10^{-2} and lower would be expected from asphalt slabs in good condition and without unsealed slab penetrations to the soil.

The results indicate low concentrations of VOCs in soil vapor exist at all four sampling locations. Acetone was found to have the highest concentration in all of the samples collected with concentrations ranging from 20 µg/m^3 (sample location 02 - northeast corner of WTP) to 760 µg/m^3 (sample location 01 - northwest corner of WTP). Concentrations of alkane and some aromatic (BTEX) compounds were found in all of the samples at lesser concentrations, and are typically attributable to vehicular emissions.

The NYSDOH Guidance Document has decision matrices for select chlorinated compounds (TCE, CCl_4, TCA, PCE, 1,1-DCE, cis 1,2-DCE, and VC) and uses sub-slab and indoor concentrations to recommend the response action in managing potential vapor intrusion. Since there are no available sub-slab vapor or indoor air data, soil vapor sampling results and estimated indoor air concentrations were applied to the matrices. The table includes a column for each set of samples and presents recommended corrective actions suggested by the decision matrices. Only one sample (sample location 03 - southeast corner of the WTP) contained concentrations of some of these compounds (TCE, TCA, and PCE) above the analytical reporting limit. Application of the decision matrices yield a response action of "no further action" and therefore mitigation is not warranted for these chlorinated compounds.

In addition, of the 30 compounds detected in the soil vapor samples, none resulted in estimated indoor air concentrations above their respective RSLs for industrial properties. As a result, installation of a vapor intrusion mitigation system is not deemed necessary. However, all penetrations through the slab, such as floor drains and utility openings, should be sealed using a low-VOC, non-shrinking polyethylene caulk such as Geocell 3300. These proactive measures will serve to prevent VOCs from beneath the slab from entering the WTP indoor air.

ATTACHMENTS

Figure 1 – Soil Vapor Sampling Locations
Table 1 – Summary of Soil Vapor Sampling Results
Attachment 1 – Soil Vapor Sampling Field Forms
Exhibit 1 – TO-15 Analytical Results

Soil Vapor Sampling Locations

PATH: I:\Honeywell.1163\STDS\GIS\Sb915MXD\SCA_WWTP.mxd

NAME: NewtonJM

DATE: 5/26/2011 3:10:24 PM



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FIGURE 1

LEGEND

- SOIL VAPOR SAMPLE
- PROPOSED WATER TREATMENT PLANT
- SEDIMENT CONSOLIDATION AREA

PROPOSED
WATER TREATMENT PLANT
SCA - WASTEBED 13
TOWN OF CAMILLUS, NY

SOIL VAPOR SAMPLE LOCATIONS

0 40 80 160
Feet

MAY 2011
1163.45613

O'BRIEN & GERE

Summary of Soil Vapor Sampling Results

Table 1
Summary of Soil Vapor Sampling Results
Wastebed 13
Honeywell International, Inc.
Camillus, NY

		SCA-VI-01 (Northwest Corner)				SCA-VI-02 (Northeast Corner)				SCA-VI-03 (Southeast Corner)				SCA-VI-04 (Southwest Corner)			
Compound	EPA RSL (Industrial) (ug/m^3)[a]	Soil Vapor Sample Result (ug/m^3)		Estimated Indoor Air Concentration (ug/m^3)[b]	NYSDOH Mitigation Decision Matrix[c]	Soil Vapor Sample Result (ug/m^3)		Estimated Indoor Air Concentration (ug/m^3)[b]	NYSDOH Mitigation Decision Matrix[c]	Soil Vapor Sample Result (ug/m^3)		Estimated Indoor Air Concentration (ug/m^3)[b]	NYSDOH Mitigation Decision Matrix[c]	Soil Vapor Sample Result		Estimated Indoor Air Concentration (ug/m^3)[b]	NYSDOH Mitigation Decision Matrix[c]
TRICHLOROETHENE (TCE)	6.1	17	U	<0.17	NFA	1.1	U	<0.01	NFA	1.6		0.02	NFA	4.3	U	<0.04	NFA
CARBON TETRACHLORIDE (CCl_4)	2.0	19	U	<0.19	NFA	1.3	U	<0.01	NFA	1.6	U	<0.02	NFA	5.0	U	<0.05	NFA
1,1,1-TRICHLOROETHANE (TCA)	22000	17	U	<0.17	NFA	1.1	U	<0.01	NFA	1.7		0.02	NFA	4.4	U	<0.04	NFA
TETRACHLOROETHENE (PCE)	2.1	21	U	<0.21	NFA	1.4	U	<0.01	NFA	2.4		0.02	NFA	5.4	U	<0.05	NFA
1,1-DICHLOROETHENE (1,1-DCE)	NA	12	U	<0.12	NFA	0.79	U	<0.01	NFA	0.99	U	<0.01	NFA	3.2	U	<0.03	NFA
cis-1,2-DICHLOROETHENE (cis 1,2-DCE)	NA	12	U	<0.12	NFA	0.79	U	<0.01	NFA	0.99	U	<0.01	NFA	3.2	U	<0.03	NFA
VINYL CHLORIDE (VC)	2.8	7.9	U	<0.08	NFA	0.51	U	<0.01	NFA	0.64	U	<0.01	NFA	2.0	U	<0.02	NFA
1,1,2-TRICHLOROTRIFLUOROETHANE	130000	35		0.35	NA	1.5	U	<0.02	NA	1.9	U	<0.02	NA	42		0.42	NA
1,2,4-TRIMETHYLBENZENE	31	150		1.5	NA	1.3		0.01	NA	1.7		0.02	NA	49		0.49	NA
1,3,5-TRIMETHYLBENZENE	NA	94		0.94	NA	0.98	U	<0.01	NA	1.2	U	<0.01	NA	33		0.33	NA
2,2,4-TRIMETHYLPENTANE	NA	58		0.58	NA	0.93	U	<0.01	NA	1.2	U	<0.01	NA	8.3		0.08	NA
2-BUTANONE	22000	120		1.2	NA	2.3		0.02	NA	24		0.24	NA	46		0.46	NA
4-ETHYLTOLUENE	13000	41		0.41	NA	0.98	U	<0.01	NA	1.2	U	<0.01	NA	16		0.16	NA
ACETONE	140000	760		7.6	NA	20		0.2	NA	120		1.2	NA	350		3.5	NA
BENZENE	1.6	40		0.4	NA	1.4		0.01	NA	3		0.03	NA	16		0.16	NA
BUTANE	NA	310		3.1	NA	2.3		0.02	NA	6.8		0.07	NA	120		1.2	NA
CHLOROBENZENE	220	14	U	<0.14	NA	0.92	U	<0.01	NA	1.1	U	<0.01	NA	4.2		0.04	NA
CHLOROFORM	0.53	15	U	<0.15	NA	1.2		0.01	NA	1.2	U	<0.01	NA	3.9	U	<0.04	NA
CYCLOHEXANE	26000	25		0.25	NA	0.69	U	<0.01	NA	0.86	U	<0.01	NA	6.7		0.07	NA
ISOPROPYLBENZENE	NA	16		0.16	NA	0.98	U	<0.01	NA	1.2	U	<0.01	NA	3.9	U	<0.04	NA
METHYLENE CHLORIDE	26	27	U	<0.27	NA	14		0.14	NA	13		0.13	NA	21		0.21	NA
N-HEPTANE	NA	540		5.4	NA	1.3		0.01	NA	3.4		0.03	NA	77		0.77	NA
N-HEXANE	3100	360		3.6	NA	1.3		0.01	NA	3.8		0.04	NA	81		0.81	NA
N-PROPYLBENZENE	NA	42		0.42	NA	0.98	U	<0.01	NA	1.2	U	<0.01	NA	3.9	U	<0.04	NA
P-ISOPROPYLTOLUENE	NA	150		1.5	NA	1.8		0.02	NA	1.4	U	<0.01	NA	110		1.1	NA
SEC-BUTYLBENZENE	NA	20		0.2	NA	1.1	U	<0.01	NA	1.4	U	<0.01	NA	4.4	U	<0.04	NA
TOLUENE	22000	120		1.2	NA	6.6		0.07	NA	6		0.06	NA	52		0.52	NA
TRICHLOROFLUOROMETHANE	3100	17	U	<0.17	NA	1.2		0.012	NA	1.8		0.02	NA	5.8		0.06	NA
XYLENES, M & P	3100	33	U	<0.33	NA	2.2	U	<0.02	NA	2.7	U	<0.03	NA	10		0.1	NA
XYLENES, TOTAL	3100	28		0.28	NA	2.5		0.03	NA	3.4		0.03	NA	13		0.13	NA

Note: Results are reported in units of micrograms per cubic meter (ug/m^3).

U - Compound not detected above the anlytical reporting limit.

[a] US EPA Regional Screening Level (RSL) Industrial Air Supporting Table November 2010.

[b] Estimated indoor air concentrations based on an attenuation factor (indoor air conc. / sub-slab conc.) of 10^{-2}.

[c] NYSDOH final vapor intrusion guidance (Oct 2006) recommends actions based on the combination of sub-slab and indoor air concentrations (available for TCE, CCl4, TCA, 1,1-DCE, cis-1,2-DCE, PCE, and VC only).

NFA - no further action as recommended by NYSDOH guidance.

NA - not applicable

Soil Vapor Sampling Field Forms

O'BRIEN & GERE

Soil Vapor (Canister) Sample Collection Field Form

Project #	45613	Consultant	O'Brien & Gere
Project Name	Honeywell SCA WB SVI	Collector	GJF

Sample ID	Location ID: SCA-VI-01-4842 / Sample ID: SCA-021511-01	Vacuum gauge "zero" ("Hg)	0
Start Date/Time	~~12/15/11~~ 2/15/11 @ 1155	Start Pressure ("Hg)	-30.1
End Date/Time	2/15/11 1235	End Pressure ("Hg)	-0.2
Canister ID	4842	End pressure > "zero"?	Y
Flow controller ID	5M5	Sampling duration (intended)	1 hour
Associated ambient air sample ID	N/A	Depth of sample point below grade	5 ft

Tubing type used	Teflon	Length of tubing	8 ft	~~cm~~ @	Tubing volume	44	cc
Volume purged	90	cc @	1	min	1 to 3 volumes purged @ < 200cc/min?	Y	
Chamber tracer gas conc.	85% / 93%				Tracer gas conc. during purging	0% / 0%	

Weather Conditions during Probe Installation:

Air temperature (°F)		Rainfall		Wind direction	
Barometric pressure				Wind speed (mph)	

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

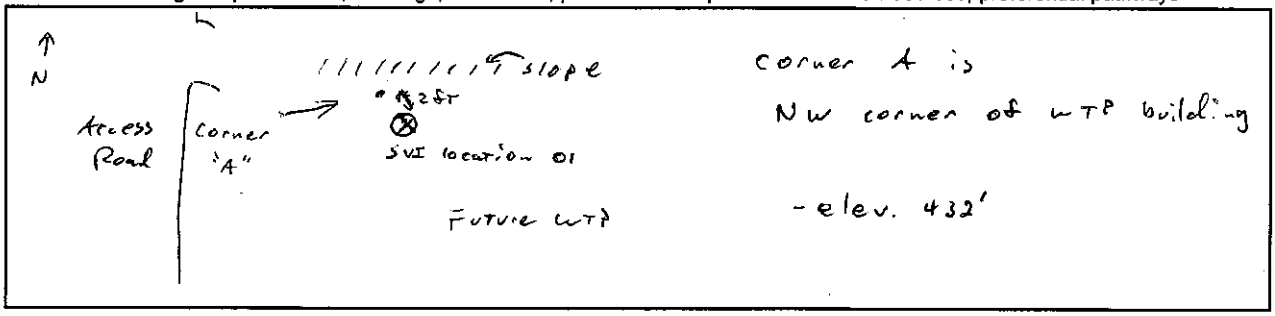
Weather Conditions at Start of Sampling:

Air temperature (°F)	13.2	Rainfall	N/A	Wind direction	WNW
Barometric pressure	30.44			Wind speed (mph)	10.7

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Installation and Sampling occured on the same day. Note about a 40.0°F temperature drop from previous day. Periods of rain ~~from~~ during @ previous day.

Site Plan showing sample location, buildings, landmarks, potential soil vapor and outdoor air sources, preferential pathways



Comments: Coordinates of corner "A": 1119949.1370 / 907896.1618
Sample @ location 01 was located 2' SE of corner "A". About 18" of snow/ice was removed to access ground surface. Location had approx. 12" of pre-load material above solvay waste.

O'BRIEN & GERE

Soil Vapor (Canister) Sample Collection Field Form

Project #	45613	Consultant	O'Brien & Gere
Project Name	Honeywell SCA WB SVI	Collector	CJF

Sample ID	location ID SCA - VI - 02 - 4660 / sample ID SCA - 021511 - 02	Vacuum gauge "zero" ("Hg)	0
Start Date/Time	~~12~~ @ 2/15/11 1232	Start Pressure ("Hg)	-30.1
End Date/Time	2/15/11 1335	End Pressure ("Hg)	-0.7
Canister ID	4660	End pressure > "zero"?	Y
Flow controller ID	5189	Sampling duration (intended)	1 hour
Associated ambient air sample ID	N/A	Depth of sample point below grade	5 ft

Tubing type used	Teflon	Length of tubing	8 ft @ cm.	Tubing volume	44	cc	
Volume purged	90	cc @	1	min	1 to 3 volumes purged @ < 200cc/min?	Y	
Chamber tracer gas conc.	95% / 90%	Tracer gas conc. during purging	0% / 0%				

Weather Conditions during Probe Installation:

Air temperature (°F)		Rainfall	
Barometric pressure		Wind direction	
		Wind speed (mph)	

Substantial changes in weather conditions during sampling or over the past ~~24 to 48~~ hrs:

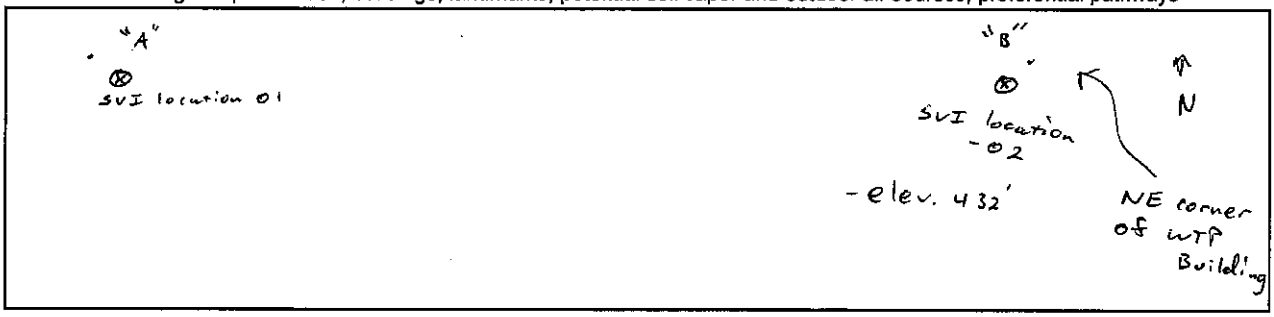
Weather Conditions at Start of Sampling:

Air temperature (°F)	13.2	Rainfall	N/A	Wind direction	WNW
Barometric pressure	30.44			Wind speed (mph)	10.7

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Installation and Sampling occured on the same day. Note about a ~10.0° F temperature drop from previous day. Periods of rain ~~from~~ during previous day.

Site Plan showing sample location, buildings, landmarks, potential soil vapor and outdoor air sources, preferential pathways



Comments: Coordinates of corner "B": 1120138.6334 / 908046.6780. Sample location 02 was located 2' SW of corner "B". About 1' of pre-load material was observed above Solvay waste.

O'BRIEN & GERE

Soil Vapor (Canister) Sample Collection Field Form

Project #	45613	Consultant	O'Brien & Gere
Project Name	Honeywell SCA WB SVI	Collector	CJF

Sample ID	Location ID SCA-VI-03-4966 / Sample ID SCA-021511-03	Vacuum gauge "zero" ("Hg)	0
Start Date/Time	2/15/11 1311	Start Pressure ("Hg)	-29.1
End Date/Time	2/15/11 1411	End Pressure ("Hg)	-6.6
Canister ID	4966	End pressure > "zero"?	Y
Flow controller ID	4499	Sampling duration (intended)	1 hour
Associated ambient air sample ID	N/A	Depth of sample point below grade	5 ft

Tubing type used	Teflon	Length of tubing	8 ft ~~DM~~	Tubing volume	44 cc
Volume purged	90 cc @	1 min	1 to 3 volumes purged @ < 200cc/min?	Y	
Chamber tracer gas conc.	90% / 89%	Tracer gas conc. during purging	0% / 0%		

Weather Conditions during Probe Installation:

Air temperature (°F)		Rainfall	Wind direction
Barometric pressure			Wind speed (mph)

Substantial changes in weather conditions during ~~sampling~~ or over the past ~~24 to 48~~ hrs:

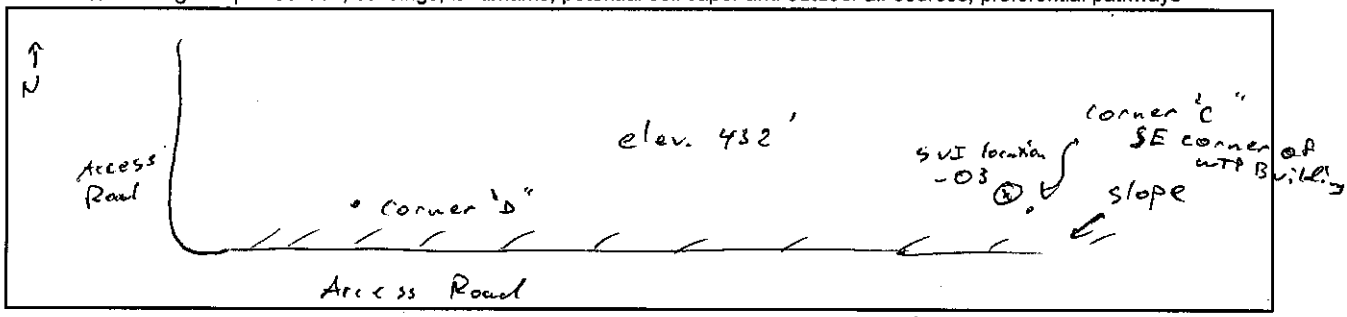
Weather Conditions at Start of Sampling:

Air temperature (°F)	13.2	Rainfall	N/A	Wind direction	WNW
Barometric pressure	30.44			Wind speed (mph)	10.7

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Installation and Sampling occured on the same day. Note about a 40.0°F temperature drop from previous day. Periods of rain from duri-> previous day.

Site Plan showing sample location, buildings, landmarks, potential soil vapor and outdoor air sources, preferential pathways



Comments: Coordinates of corner "C": 1120000.5564 / 908220.5135
Sample ~~&~~ location 03 was located 2' NW of corner "C". Location 03 had approx. 6" of pre-load material above solvay waste.

O'BRIEN & GERE

Soil Vapor (Canister) Sample Collection Field Form

Project #	45613	Consultant	O'Brien & Gere
Project Name	Honeywell SCA WB SVI	Collector	CJF

Sample ID	Location ID: SCA-VI-04 / Sample ID: SCA-021511-04	Vacuum gauge "zero" ("Hg)	0
	~ 3721		
Start Date/Time	2/15/11 1332	Start Pressure ("Hg)	-29.9
End Date/Time	2/15/11 1442	End Pressure ("Hg)	-0.5
Canister ID	3721	End pressure > "zero"?	Y
Flow controller ID	4246	Sampling duration (intended)	1 hour
Associated ambient air sample ID	N/A	Depth of sample point below grade	5 ft

Tubing type used	Teflon	Length of tubing	8 ft ~~cm~~	Tubing volume	44 cc
Volume purged	90 cc @	1 min	1 to 3 volumes purged @ < 200cc/min?		Y
Chamber tracer gas conc.	85% / 87%	Tracer gas conc. during purging			0% / 0%

Weather Conditions during Probe Installation:

Air temperature (°F)		Rainfall	Wind direction
Barometric pressure			Wind speed (mph)

Substantial changes in weather conditions during sampling ~~or over the past 24 to 48 hrs:~~

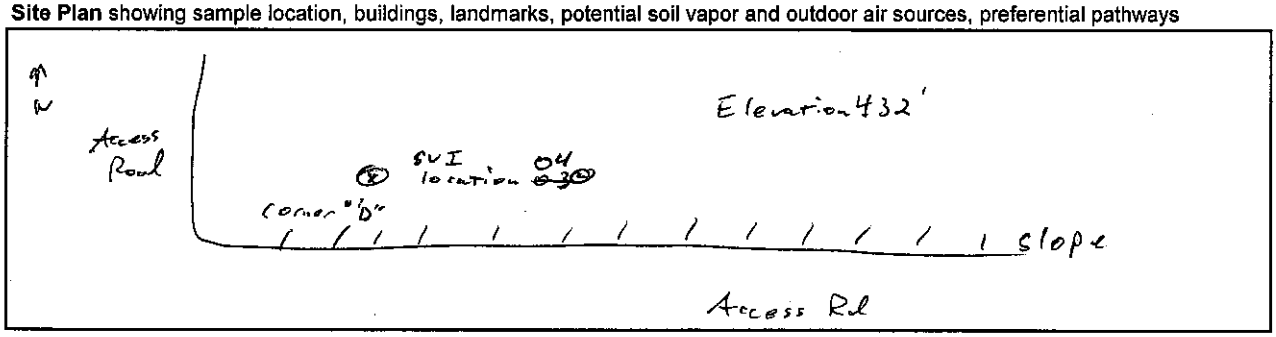
Weather Conditions at Start of Sampling:

Air temperature (°F)	13.2	Rainfall	N/A	Wind direction	WNW
Barometric pressure	30.44			Wind speed (mph)	10.7

Substantial changes in weather conditions during sampling or over the past 24 to 48 hrs:

Installation and Sampling occured on the same day.
Note about a 40.0°F temperature drop from previous day.
Periods of rain: ~~from~~ during previous day.

Site Plan showing sample location, buildings, landmarks, potential soil vapor and outdoor air sources, preferential pathways



Comments: Coordinates of corner 'D': 1119811.0601 / 908069.9972.
Sample location 04 was located 2' NE of corner "D". Location 04 had no ~~soil~~ Pre-local material and the sample was collected from 5' of Solvay waste material

TO-15 Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 200-3885-1

SDG Number: 200-3885

Job Description: Honeywell Waste Bed 9-15

For:
O'Brien & Gere Technical Services Inc
PO BOX 4873
333 West Washington St.
Syracuse, NY 13221-4873

Attention: Mr. Paul Schultz

Approved for release.
Don C Dawicki
Project Manager II
3/8/2011 3:41 PM

Don C Dawicki
Project Manager II
don.dawicki@testamericainc.com
03/08/2011

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

TestAmerica Laboratories, Inc.
TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403
Tel (802) 660-1990 Fax (802) 660-1919 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Manual Integration Summary 5

Sample Summary 6

Executive Summary 7

Method Summary 11

Method / Analyst Summary 12

Sample Datasheets 13

QC Data Summary 29

Data Qualifiers 35

QC Association Summary 36

Lab Chronicle 37

Organic Sample Data 39

Air - GC/MS VOA 39

Method TO15 39

Method TO15 QC Summary 40

Method TO15 Sample Data 47

Standards Data 160

Method TO15 ICAL Data 160

Method TO15 CCAL Data 198

Raw QC Data 212

Method TO15 Tune Data 212

Method TO15 Blank Data 220

Method TO15 LCS/LCSD Data 230

Method TO15 Run Logs 237

Table of Contents

Method TO15 Prep Data 241

Pre-shipment Certification 242

LCS Data 243

Blank Data 245

Tune Data 253

IS/RT Data 255

Clean Canister Data 257

ICAL Data 264

ICV/CCV Data 274

Run Logs 280

Shipping and Receiving Documents 285

Client Chain of Custody 286

Sample Receipt Checklist 289

CASE NARRATIVE

Client: O'Brien & Gere Technical Services Inc

Project: Honeywell Waste Bed 9-15

Report Number: 200-3885-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 02/18/2011; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples SCA-021511-01, SCA-021511-02, SCA-021511-03 and SCA-021511-04 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 02/25/2011 and 02/26/2011.

Samples SCA-021511-01[15X] and SCA-021511-04[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Instrument ID: B.i Analysis Batch Number: 14275

Lab Sample ID: 200-3885-1 Client Sample ID: SCA-021511-01

Date Analyzed: 02/25/11 12:46 Lab File ID: bjxi005.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Ethyltoluene	16.59	Baseline event	sv	02/25/11 23:17

Lab Sample ID: 200-3885-2 Client Sample ID: SCA-021511-02

Date Analyzed: 02/25/11 13:38 Lab File ID: bjxi006.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Ethyltoluene	16.60	Baseline event	sv	02/25/11 23:24

Lab Sample ID: 200-3885-3 Client Sample ID: SCA-021511-03

Date Analyzed: 02/25/11 14:32 Lab File ID: bjxi007.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,2,4-Trimethylpentane	10.02	Peak not found by the data system	sv	02/25/11 23:27

Lab Sample ID: 200-3885-4 Client Sample ID: SCA-021511-04

Date Analyzed: 02/26/11 06:32 Lab File ID: bjxi025.d GC Column: RTX-624 ID: 0.32(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane	9.53	Baseline event	pd	02/26/11 09:36
2,2,4-Trimethylpentane	10.03	Peak not found by the data system	klp	02/27/11 10:32
4-Ethyltoluene	16.60	Baseline event	pd	02/26/11 09:39

SAMPLE SUMMARY

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-3885-1	SCA-021511-01	Air	02/15/2011 1255	02/18/2011 1140
200-3885-2	SCA-021511-02	Air	02/15/2011 1335	02/18/2011 1140
200-3885-3	SCA-021511-03	Air	02/15/2011 1411	02/18/2011 1140
200-3885-4	SCA-021511-04	Air	02/15/2011 1442	02/18/2011 1140

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
200-3885-1	**SCA-021511-01**				
n-Butane		130	7.7	ppb v/v	TO-15
n-Butane		310	18	ug/m3	TO-15
Freon TF		4.6	3.1	ppb v/v	TO-15
Freon TF		35	24	ug/m3	TO-15
Acetone		320	77	ppb v/v	TO-15
Acetone		760	180	ug/m3	TO-15
n-Hexane		100	3.1	ppb v/v	TO-15
n-Hexane		360	11	ug/m3	TO-15
Methyl Ethyl Ketone		40	7.7	ppb v/v	TO-15
Methyl Ethyl Ketone		120	23	ug/m3	TO-15
Cyclohexane		7.2	3.1	ppb v/v	TO-15
Cyclohexane		25	11	ug/m3	TO-15
2,2,4-Trimethylpentane		13	3.1	ppb v/v	TO-15
2,2,4-Trimethylpentane		58	14	ug/m3	TO-15
Benzene		12	3.1	ppb v/v	TO-15
Benzene		40	9.8	ug/m3	TO-15
n-Heptane		130	3.1	ppb v/v	TO-15
n-Heptane		540	13	ug/m3	TO-15
Toluene		31	3.1	ppb v/v	TO-15
Toluene		120	12	ug/m3	TO-15
Xylene (total)		6.4	3.1	ppb v/v	TO-15
Xylene (total)		28	13	ug/m3	TO-15
Cumene		3.3	3.1	ppb v/v	TO-15
Cumene		16	15	ug/m3	TO-15
n-Propylbenzene		8.6	3.1	ppb v/v	TO-15
n-Propylbenzene		42	15	ug/m3	TO-15
4-Ethyltoluene		8.3	3.1	ppb v/v	TO-15
4-Ethyltoluene		41	15	ug/m3	TO-15
1,3,5-Trimethylbenzene		19	3.1	ppb v/v	TO-15
1,3,5-Trimethylbenzene		94	15	ug/m3	TO-15
1,2,4-Trimethylbenzene		30	3.1	ppb v/v	TO-15
1,2,4-Trimethylbenzene		150	15	ug/m3	TO-15
sec-Butylbenzene		3.6	3.1	ppb v/v	TO-15
sec-Butylbenzene		20	17	ug/m3	TO-15
4-Isopropyltoluene		27	3.1	ppb v/v	TO-15
4-Isopropyltoluene		150	17	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
200-3885-2	**SCA-021511-02**				
n-Butane		0.98	0.50	ppb v/v	TO-15
n-Butane		2.3	1.2	ug/m3	TO-15
Trichlorofluoromethane		0.21	0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.2	1.1	ug/m3	TO-15
Acetone		8.6	5.0	ppb v/v	TO-15
Acetone		20	12	ug/m3	TO-15
Methylene Chloride		4.1	0.50	ppb v/v	TO-15
Methylene Chloride		14	1.7	ug/m3	TO-15
n-Hexane		0.38	0.20	ppb v/v	TO-15
n-Hexane		1.3	0.70	ug/m3	TO-15
Methyl Ethyl Ketone		0.77	0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		2.3	1.5	ug/m3	TO-15
Chloroform		0.24	0.20	ppb v/v	TO-15
Chloroform		1.2	0.98	ug/m3	TO-15
Benzene		0.45	0.20	ppb v/v	TO-15
Benzene		1.4	0.64	ug/m3	TO-15
n-Heptane		0.33	0.20	ppb v/v	TO-15
n-Heptane		1.3	0.82	ug/m3	TO-15
Toluene		1.7	0.20	ppb v/v	TO-15
Toluene		6.6	0.75	ug/m3	TO-15
Xylene (total)		0.58	0.20	ppb v/v	TO-15
Xylene (total)		2.5	0.87	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.26	0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		1.3	0.98	ug/m3	TO-15
4-Isopropyltoluene		0.33	0.20	ppb v/v	TO-15
4-Isopropyltoluene		1.8	1.1	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
200-3885-3	**SCA-021511-03**				
n-Butane		2.9	0.62	ppb v/v	TO-15
n-Butane		6.8	1.5	ug/m3	TO-15
Trichlorofluoromethane		0.31	0.25	ppb v/v	TO-15
Trichlorofluoromethane		1.8	1.4	ug/m3	TO-15
Acetone		49	6.2	ppb v/v	TO-15
Acetone		120	15	ug/m3	TO-15
Methylene Chloride		3.8	0.62	ppb v/v	TO-15
Methylene Chloride		13	2.2	ug/m3	TO-15
n-Hexane		1.1	0.25	ppb v/v	TO-15
n-Hexane		3.8	0.88	ug/m3	TO-15
Methyl Ethyl Ketone		8.1	0.62	ppb v/v	TO-15
Methyl Ethyl Ketone		24	1.8	ug/m3	TO-15
1,1,1-Trichloroethane		0.32	0.25	ppb v/v	TO-15
1,1,1-Trichloroethane		1.7	1.4	ug/m3	TO-15
Benzene		0.93	0.25	ppb v/v	TO-15
Benzene		3.0	0.80	ug/m3	TO-15
n-Heptane		0.84	0.25	ppb v/v	TO-15
n-Heptane		3.4	1.0	ug/m3	TO-15
Trichloroethene		0.29	0.25	ppb v/v	TO-15
Trichloroethene		1.6	1.3	ug/m3	TO-15
Toluene		1.6	0.25	ppb v/v	TO-15
Toluene		6.0	0.94	ug/m3	TO-15
Tetrachloroethene		0.35	0.25	ppb v/v	TO-15
Tetrachloroethene		2.4	1.7	ug/m3	TO-15
Xylene (total)		0.78	0.25	ppb v/v	TO-15
Xylene (total)		3.4	1.1	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.34	0.25	ppb v/v	TO-15
1,2,4-Trimethylbenzene		1.7	1.2	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
200-3885-4	**SCA-021511-04**				
n-Butane		49	2.0	ppb v/v	TO-15
n-Butane		120	4.8	ug/m3	TO-15
Trichlorofluoromethane		1.0	0.80	ppb v/v	TO-15
Trichlorofluoromethane		5.8	4.5	ug/m3	TO-15
Freon TF		5.4	0.80	ppb v/v	TO-15
Freon TF		42	6.1	ug/m3	TO-15
Acetone		150	20	ppb v/v	TO-15
Acetone		350	48	ug/m3	TO-15
Methylene Chloride		6.2	2.0	ppb v/v	TO-15
Methylene Chloride		21	6.9	ug/m3	TO-15
n-Hexane		23	0.80	ppb v/v	TO-15
n-Hexane		81	2.8	ug/m3	TO-15
Methyl Ethyl Ketone		16	2.0	ppb v/v	TO-15
Methyl Ethyl Ketone		46	5.9	ug/m3	TO-15
Cyclohexane		1.9	0.80	ppb v/v	TO-15
Cyclohexane		6.7	2.8	ug/m3	TO-15
2,2,4-Trimethylpentane		1.8	0.80	ppb v/v	TO-15
2,2,4-Trimethylpentane		8.3	3.7	ug/m3	TO-15
Benzene		5.1	0.80	ppb v/v	TO-15
Benzene		16	2.6	ug/m3	TO-15
n-Heptane		19	0.80	ppb v/v	TO-15
n-Heptane		77	3.3	ug/m3	TO-15
Toluene		14	0.80	ppb v/v	TO-15
Toluene		52	3.0	ug/m3	TO-15
Chlorobenzene		0.92	0.80	ppb v/v	TO-15
Chlorobenzene		4.2	3.7	ug/m3	TO-15
m,p-Xylene		2.4	2.0	ppb v/v	TO-15
m,p-Xylene		10	8.7	ug/m3	TO-15
Xylene (total)		3.0	0.80	ppb v/v	TO-15
Xylene (total)		13	3.5	ug/m3	TO-15
4-Ethyltoluene		3.3	0.80	ppb v/v	TO-15
4-Ethyltoluene		16	3.9	ug/m3	TO-15
1,3,5-Trimethylbenzene		6.7	0.80	ppb v/v	TO-15
1,3,5-Trimethylbenzene		33	3.9	ug/m3	TO-15
1,2,4-Trimethylbenzene		10	0.80	ppb v/v	TO-15
1,2,4-Trimethylbenzene		49	3.9	ug/m3	TO-15
4-Isopropyltoluene		20	0.80	ppb v/v	TO-15
4-Isopropyltoluene		110	4.4	ug/m3	TO-15

METHOD SUMMARY

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Method	Analyst	Analyst ID
EPA TO-15	Daigle, Paul A	PAD

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-01**

Lab Sample ID: 200-3885-1
Client Matrix: Air

Date Sampled: 02/15/2011 1255
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275	Instrument ID: B.i
Preparation:	Summa Canister		Lab File ID: bjxi005.d
Dilution:	15.4		Initial Weight/Volume: 13 mL
Date Analyzed:	02/25/2011 1246		Final Weight/Volume: 200 mL
Date Prepared:	02/25/2011 1246		Injection Volume: 100 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	7.7	U	7.7
Freon 22	7.7	U	7.7
1,2-Dichlorotetrafluoroethane	3.1	U	3.1
Chloromethane	7.7	U	7.7
n-Butane	130		7.7
Vinyl chloride	3.1	U	3.1
1,3-Butadiene	3.1	U	3.1
Bromomethane	3.1	U	3.1
Chloroethane	7.7	U	7.7
Bromoethene(Vinyl Bromide)	3.1	U	3.1
Trichlorofluoromethane	3.1	U	3.1
Freon TF	4.6		3.1
1,1-Dichloroethene	3.1	U	3.1
Acetone	320		77
Isopropyl alcohol	77	U	77
Carbon disulfide	7.7	U	7.7
3-Chloropropene	7.7	U	7.7
Methylene Chloride	7.7	U	7.7
tert-Butyl alcohol	77	U	77
Methyl tert-butyl ether	3.1	U	3.1
trans-1,2-Dichloroethene	3.1	U	3.1
n-Hexane	100		3.1
1,1-Dichloroethane	3.1	U	3.1
Methyl Ethyl Ketone	40		7.7
cis-1,2-Dichloroethene	3.1	U	3.1
1,2-Dichloroethene, Total	3.1	U	3.1
Chloroform	3.1	U	3.1
Tetrahydrofuran	77	U	77
1,1,1-Trichloroethane	3.1	U	3.1
Cyclohexane	7.2		3.1
Carbon tetrachloride	3.1	U	3.1
2,2,4-Trimethylpentane	13		3.1
Benzene	12		3.1
1,2-Dichloroethane	3.1	U	3.1
n-Heptane	130		3.1
Trichloroethene	3.1	U	3.1
Methyl methacrylate	7.7	U	7.7
1,2-Dichloropropane	3.1	U	3.1
1,4-Dioxane	77	U	77
Bromodichloromethane	3.1	U	3.1
cis-1,3-Dichloropropene	3.1	U	3.1
methyl isobutyl ketone	7.7	U	7.7
Toluene	31		3.1
trans-1,3-Dichloropropene	3.1	U	3.1
1,1,2-Trichloroethane	3.1	U	3.1
Tetrachloroethene	3.1	U	3.1

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-01**

Lab Sample ID: 200-3885-1
Client Matrix: Air

Date Sampled: 02/15/2011 1255
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275	Instrument ID: B.i
Preparation:	Summa Canister		Lab File ID: bjxi005.d
Dilution:	15.4		Initial Weight/Volume: 13 mL
Date Analyzed:	02/25/2011 1246		Final Weight/Volume: 200 mL
Date Prepared:	02/25/2011 1246		Injection Volume: 100 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	7.7	U	7.7
Dibromochloromethane	3.1	U	3.1
1,2-Dibromoethane	3.1	U	3.1
Chlorobenzene	3.1	U	3.1
Ethylbenzene	3.1	U	3.1
m,p-Xylene	7.7	U	7.7
Xylene, o-	3.1	U	3.1
Xylene (total)	6.4		3.1
Styrene	3.1	U	3.1
Bromoform	3.1	U	3.1
Cumene	3.3		3.1
1,1,2,2-Tetrachloroethane	3.1	U	3.1
n-Propylbenzene	8.6		3.1
4-Ethyltoluene	8.3		3.1
1,3,5-Trimethylbenzene	19		3.1
2-Chlorotoluene	3.1	U	3.1
tert-Butylbenzene	3.1	U	3.1
1,2,4-Trimethylbenzene	30		3.1
sec-Butylbenzene	3.6		3.1
4-Isopropyltoluene	27		3.1
1,3-Dichlorobenzene	3.1	U	3.1
1,4-Dichlorobenzene	3.1	U	3.1
Benzyl chloride	3.1	U	3.1
n-Butylbenzene	3.1	U	3.1
1,2-Dichlorobenzene	3.1	U	3.1
1,2,4-Trichlorobenzene	7.7	U	7.7
Hexachlorobutadiene	3.1	U	3.1
Naphthalene	7.7	U	7.7

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	38	U	38
Freon 22	27	U	27
1,2-Dichlorotetrafluoroethane	22	U	22
Chloromethane	16	U	16
n-Butane	310		18
Vinyl chloride	7.9	U	7.9
1,3-Butadiene	6.8	U	6.8
Bromomethane	12	U	12
Chloroethane	20	U	20
Bromoethene(Vinyl Bromide)	13	U	13
Trichlorofluoromethane	17	U	17
Freon TF	35		24
1,1-Dichloroethene	12	U	12
Acetone	760		180
Isopropyl alcohol	190	U	190
Carbon disulfide	24	U	24

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-01**

Lab Sample ID: 200-3885-1
Client Matrix: Air

Date Sampled: 02/15/2011 1255
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275		Instrument ID:	B.i
Preparation:	Summa Canister			Lab File ID:	bjxi005.d
Dilution:	15.4			Initial Weight/Volume:	13 mL
Date Analyzed:	02/25/2011 1246			Final Weight/Volume:	200 mL
Date Prepared:	02/25/2011 1246			Injection Volume:	100 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	24	U	24
Methylene Chloride	27	U	27
tert-Butyl alcohol	230	U	230
Methyl tert-butyl ether	11	U	11
trans-1,2-Dichloroethene	12	U	12
n-Hexane	360		11
1,1-Dichloroethane	12	U	12
Methyl Ethyl Ketone	120		23
cis-1,2-Dichloroethene	12	U	12
1,2-Dichloroethene, Total	12	U	12
Chloroform	15	U	15
Tetrahydrofuran	230	U	230
1,1,1-Trichloroethane	17	U	17
Cyclohexane	25		11
Carbon tetrachloride	19	U	19
2,2,4-Trimethylpentane	58		14
Benzene	40		9.8
1,2-Dichloroethane	12	U	12
n-Heptane	540		13
Trichloroethene	17	U	17
Methyl methacrylate	32	U	32
1,2-Dichloropropane	14	U	14
1,4-Dioxane	280	U	280
Bromodichloromethane	21	U	21
cis-1,3-Dichloropropene	14	U	14
methyl isobutyl ketone	32	U	32
Toluene	120		12
trans-1,3-Dichloropropene	14	U	14
1,1,2-Trichloroethane	17	U	17
Tetrachloroethene	21	U	21
Methyl Butyl Ketone (2-Hexanone)	32	U	32
Dibromochloromethane	26	U	26
1,2-Dibromoethane	24	U	24
Chlorobenzene	14	U	14
Ethylbenzene	13	U	13
m,p-Xylene	33	U	33
Xylene, o-	13	U	13
Xylene (total)	28		13
Styrene	13	U	13
Bromoform	32	U	32
Cumene	16		15
1,1,2,2-Tetrachloroethane	21	U	21
n-Propylbenzene	42		15
4-Ethyltoluene	41		15
1,3,5-Trimethylbenzene	94		15
2-Chlorotoluene	16	U	16

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-01**

Lab Sample ID: 200-3885-1
Client Matrix: Air

Date Sampled: 02/15/2011 1255
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275		Instrument ID:	B.i
Preparation:	Summa Canister			Lab File ID:	bjxi005.d
Dilution:	15.4			Initial Weight/Volume:	13 mL
Date Analyzed:	02/25/2011 1246			Final Weight/Volume:	200 mL
Date Prepared:	02/25/2011 1246			Injection Volume:	100 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	17	U	17
1,2,4-Trimethylbenzene	150		15
sec-Butylbenzene	20		17
4-Isopropyltoluene	150		17
1,3-Dichlorobenzene	19	U	19
1,4-Dichlorobenzene	19	U	19
Benzyl chloride	16	U	16
n-Butylbenzene	17	U	17
1,2-Dichlorobenzene	19	U	19
1,2,4-Trichlorobenzene	57	U	57
Hexachlorobutadiene	33	U	33
Naphthalene	40	U	40

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-02**

Lab Sample ID: 200-3885-2
Client Matrix: Air

Date Sampled: 02/15/2011 1335
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275	Instrument ID: B.i
Preparation:	Summa Canister		Lab File ID: bjxi006.d
Dilution:	1.0		Initial Weight/Volume: 200 mL
Date Analyzed:	02/25/2011 1338		Final Weight/Volume: 200 mL
Date Prepared:	02/25/2011 1338		Injection Volume: 100 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.50	U	0.50
Freon 22	0.50	U	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.50	U	0.50
n-Butane	0.98		0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.20
Trichlorofluoromethane	0.21		0.20
Freon TF	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	8.6		5.0
Isopropyl alcohol	5.0	U	5.0
Carbon disulfide	0.50	U	0.50
3-Chloropropene	0.50	U	0.50
Methylene Chloride	4.1		0.50
tert-Butyl alcohol	5.0	U	5.0
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.38		0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.77		0.50
cis-1,2-Dichloroethene	0.20	U	0.20
1,2-Dichloroethene, Total	0.20	U	0.20
Chloroform	0.24		0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
2,2,4-Trimethylpentane	0.20	U	0.20
Benzene	0.45		0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.33		0.20
Trichloroethene	0.20	U	0.20
Methyl methacrylate	0.50	U	0.50
1,2-Dichloropropane	0.20	U	0.20
1,4-Dioxane	5.0	U	5.0
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	1.7		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-02**

Lab Sample ID: 200-3885-2
Client Matrix: Air

Date Sampled: 02/15/2011 1335
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275		Instrument ID:	B.i
Preparation:	Summa Canister			Lab File ID:	bjxi006.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Date Analyzed:	02/25/2011 1338			Final Weight/Volume:	200 mL
Date Prepared:	02/25/2011 1338			Injection Volume:	100 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Xylene (total)	0.58		0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
n-Propylbenzene	0.20	U	0.20
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
2-Chlorotoluene	0.20	U	0.20
tert-Butylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.26		0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.33		0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
Benzyl chloride	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20
Naphthalene	0.50	U	0.50

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.5	U	2.5
Freon 22	1.8	U	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.0	U	1.0
n-Butane	2.3		1.2
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.87
Trichlorofluoromethane	1.2		1.1
Freon TF	1.5	U	1.5
1,1-Dichloroethene	0.79	U	0.79
Acetone	20		12
Isopropyl alcohol	12	U	12
Carbon disulfide	1.6	U	1.6

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-02**

Lab Sample ID: 200-3885-2
Client Matrix: Air

Date Sampled: 02/15/2011 1335
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds In Ambient Air

Method:	TO-15	Analysis Batch: 200-14275	Instrument ID: B.i
Preparation:	Summa Canister		Lab File ID: bjxi006.d
Dilution:	1.0		Initial Weight/Volume: 200 mL
Date Analyzed:	02/25/2011 1338		Final Weight/Volume: 200 mL
Date Prepared:	02/25/2011 1338		Injection Volume: 100 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	1.6	U	1.6
Methylene Chloride	14		1.7
tert-Butyl alcohol	15	U	15
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	1.3		0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	2.3		1.5
cis-1,2-Dichloroethene	0.79	U	0.79
1,2-Dichloroethene, Total	0.79	U	0.79
Chloroform	1.2		0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
2,2,4-Trimethylpentane	0.93	U	0.93
Benzene	1.4		0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	1.3		0.82
Trichloroethene	1.1	U	1.1
Methyl methacrylate	2.0	U	2.0
1,2-Dichloropropane	0.92	U	0.92
1,4-Dioxane	18	U	18
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	6.6		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Xylene (total)	2.5		0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
n-Propylbenzene	0.98	U	0.98
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
2-Chlorotoluene	1.0	U	1.0

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-02**

Lab Sample ID: 200-3885-2
Client Matrix: Air

Date Sampled: 02/15/2011 1335
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275		Instrument ID:	B.i
Preparation:	Summa Canister			Lab File ID:	bjxi006.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Date Analyzed:	02/25/2011 1338			Final Weight/Volume:	200 mL
Date Prepared:	02/25/2011 1338			Injection Volume:	100 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	1.1	U	1.1
1,2,4-Trimethylbenzene	1.3		0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.8		1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
Benzyl chloride	1.0	U	1.0
n-Butylbenzene	1.1	U	1.1
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1
Naphthalene	2.6	U	2.6

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-03**

Lab Sample ID: 200-3885-3
Client Matrix: Air

Date Sampled: 02/15/2011 1411
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275		Instrument ID:	B.i
Preparation:	Summa Canister			Lab File ID:	bjxi007.d
Dilution:	1.25			Initial Weight/Volume:	160 mL
Date Analyzed:	02/25/2011 1432			Final Weight/Volume:	200 mL
Date Prepared:	02/25/2011 1432			Injection Volume:	100 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.62	U	0.62
Freon 22	0.62	U	0.62
1,2-Dichlorotetrafluoroethane	0.25	U	0.25
Chloromethane	0.62	U	0.62
n-Butane	2.9		0.62
Vinyl chloride	0.25	U	0.25
1,3-Butadiene	0.25	U	0.25
Bromomethane	0.25	U	0.25
Chloroethane	0.62	U	0.62
Bromoethene(Vinyl Bromide)	0.25	U	0.25
Trichlorofluoromethane	0.31		0.25
Freon TF	0.25	U	0.25
1,1-Dichloroethene	0.25	U	0.25
Acetone	49		6.2
Isopropyl alcohol	6.2	U	6.2
Carbon disulfide	0.62	U	0.62
3-Chloropropene	0.62	U	0.62
Methylene Chloride	3.8		0.62
tert-Butyl alcohol	6.2	U	6.2
Methyl tert-butyl ether	0.25	U	0.25
trans-1,2-Dichloroethene	0.25	U	0.25
n-Hexane	1.1		0.25
1,1-Dichloroethane	0.25	U	0.25
Methyl Ethyl Ketone	8.1		0.62
cis-1,2-Dichloroethene	0.25	U	0.25
1,2-Dichloroethene, Total	0.25	U	0.25
Chloroform	0.25	U	0.25
Tetrahydrofuran	6.2	U	6.2
1,1,1-Trichloroethane	0.32		0.25
Cyclohexane	0.25	U	0.25
Carbon tetrachloride	0.25	U	0.25
2,2,4-Trimethylpentane	0.25	U	0.25
Benzene	0.93		0.25
1,2-Dichloroethane	0.25	U	0.25
n-Heptane	0.84		0.25
Trichloroethene	0.29		0.25
Methyl methacrylate	0.62	U	0.62
1,2-Dichloropropane	0.25	U	0.25
1,4-Dioxane	6.2	U	6.2
Bromodichloromethane	0.25	U	0.25
cis-1,3-Dichloropropene	0.25	U	0.25
methyl isobutyl ketone	0.62	U	0.62
Toluene	1.6		0.25
trans-1,3-Dichloropropene	0.25	U	0.25
1,1,2-Trichloroethane	0.25	U	0.25
Tetrachloroethene	0.35		0.25

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-03**

Lab Sample ID: 200-3885-3
Client Matrix: Air

Date Sampled: 02/15/2011 1411
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275	Instrument ID: B.i
Preparation:	Summa Canister		Lab File ID: bjxi007.d
Dilution:	1.25		Initial Weight/Volume: 160 mL
Date Analyzed:	02/25/2011 1432		Final Weight/Volume: 200 mL
Date Prepared:	02/25/2011 1432		Injection Volume: 100 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	0.62	U	0.62
Dibromochloromethane	0.25	U	0.25
1,2-Dibromoethane	0.25	U	0.25
Chlorobenzene	0.25	U	0.25
Ethylbenzene	0.25	U	0.25
m,p-Xylene	0.62	U	0.62
Xylene, o-	0.25	U	0.25
Xylene (total)	0.78		0.25
Styrene	0.25	U	0.25
Bromoform	0.25	U	0.25
Cumene	0.25	U	0.25
1,1,2,2-Tetrachloroethane	0.25	U	0.25
n-Propylbenzene	0.25	U	0.25
4-Ethyltoluene	0.25	U	0.25
1,3,5-Trimethylbenzene	0.25	U	0.25
2-Chlorotoluene	0.25	U	0.25
tert-Butylbenzene	0.25	U	0.25
1,2,4-Trimethylbenzene	0.34		0.25
sec-Butylbenzene	0.25	U	0.25
4-Isopropyltoluene	0.25	U	0.25
1,3-Dichlorobenzene	0.25	U	0.25
1,4-Dichlorobenzene	0.25	U	0.25
Benzyl chloride	0.25	U	0.25
n-Butylbenzene	0.25	U	0.25
1,2-Dichlorobenzene	0.25	U	0.25
1,2,4-Trichlorobenzene	0.62	U	0.62
Hexachlorobutadiene	0.25	U	0.25
Naphthalene	0.62	U	0.62

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	3.1	U	3.1
Freon 22	2.2	U	2.2
1,2-Dichlorotetrafluoroethane	1.7	U	1.7
Chloromethane	1.3	U	1.3
n-Butane	6.8		1.5
Vinyl chloride	0.64	U	0.64
1,3-Butadiene	0.55	U	0.55
Bromomethane	0.97	U	0.97
Chloroethane	1.6	U	1.6
Bromoethene(Vinyl Bromide)	1.1	U	1.1
Trichlorofluoromethane	1.8		1.4
Freon TF	1.9	U	1.9
1,1-Dichloroethene	0.99	U	0.99
Acetone	120		15
Isopropyl alcohol	15	U	15
Carbon disulfide	1.9	U	1.9

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-03**

Lab Sample ID: 200-3885-3
Client Matrix: Air

Date Sampled: 02/15/2011 1411
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275		Instrument ID:	B.i
Preparation:	Summa Canister			Lab File ID:	bjxi007.d
Dilution:	1.25			Initial Weight/Volume:	160 mL
Date Analyzed:	02/25/2011 1432			Final Weight/Volume:	200 mL
Date Prepared:	02/25/2011 1432			Injection Volume:	100 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	2.0	U	2.0
Methylene Chloride	13		2.2
tert-Butyl alcohol	19	U	19
Methyl tert-butyl ether	0.90	U	0.90
trans-1,2-Dichloroethene	0.99	U	0.99
n-Hexane	3.8		0.88
1,1-Dichloroethane	1.0	U	1.0
Methyl Ethyl Ketone	24		1.8
cis-1,2-Dichloroethene	0.99	U	0.99
1,2-Dichloroethene, Total	0.99	U	0.99
Chloroform	1.2	U	1.2
Tetrahydrofuran	18	U	18
1,1,1-Trichloroethane	1.7		1.4
Cyclohexane	0.86	U	0.86
Carbon tetrachloride	1.6	U	1.6
2,2,4-Trimethylpentane	1.2	U	1.2
Benzene	3.0		0.80
1,2-Dichloroethane	1.0	U	1.0
n-Heptane	3.4		1.0
Trichloroethene	1.6		1.3
Methyl methacrylate	2.6	U	2.6
1,2-Dichloropropane	1.2	U	1.2
1,4-Dioxane	23	U	23
Bromodichloromethane	1.7	U	1.7
cis-1,3-Dichloropropene	1.1	U	1.1
methyl isobutyl ketone	2.6	U	2.6
Toluene	6.0		0.94
trans-1,3-Dichloropropene	1.1	U	1.1
1,1,2-Trichloroethane	1.4	U	1.4
Tetrachloroethene	2.4		1.7
Methyl Butyl Ketone (2-Hexanone)	2.6	U	2.6
Dibromochloromethane	2.1	U	2.1
1,2-Dibromoethane	1.9	U	1.9
Chlorobenzene	1.1	U	1.1
Ethylbenzene	1.1	U	1.1
m,p-Xylene	2.7	U	2.7
Xylene, o-	1.1	U	1.1
Xylene (total)	3.4		1.1
Styrene	1.1	U	1.1
Bromoform	2.6	U	2.6
Cumene	1.2	U	1.2
1,1,2,2-Tetrachloroethane	1.7	U	1.7
n-Propylbenzene	1.2	U	1.2
4-Ethyltoluene	1.2	U	1.2
1,3,5-Trimethylbenzene	1.2	U	1.2
2-Chlorotoluene	1.3	U	1.3

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-03**

Lab Sample ID: 200-3885-3
Client Matrix: Air

Date Sampled: 02/15/2011 1411
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275		Instrument ID:	B.i
Preparation:	Summa Canister			Lab File ID:	bjxi007.d
Dilution:	1.25			Initial Weight/Volume:	160 mL
Date Analyzed:	02/25/2011 1432			Final Weight/Volume:	200 mL
Date Prepared:	02/25/2011 1432			Injection Volume:	100 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	1.4	U	1.4
1,2,4-Trimethylbenzene	1.7		1.2
sec-Butylbenzene	1.4	U	1.4
4-Isopropyltoluene	1.4	U	1.4
1,3-Dichlorobenzene	1.5	U	1.5
1,4-Dichlorobenzene	1.5	U	1.5
Benzyl chloride	1.3	U	1.3
n-Butylbenzene	1.4	U	1.4
1,2-Dichlorobenzene	1.5	U	1.5
1,2,4-Trichlorobenzene	4.6	U	4.6
Hexachlorobutadiene	2.7	U	2.7
Naphthalene	3.3	U	3.3

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-04**

Lab Sample ID: 200-3885-4
Client Matrix: Air

Date Sampled: 02/15/2011 1442
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275	Instrument ID: B.i
Preparation:	Summa Canister		Lab File ID: bjxi025.d
Dilution:	4.0		Initial Weight/Volume: 50 mL
Date Analyzed:	02/26/2011 0632		Final Weight/Volume: 200 mL
Date Prepared:	02/26/2011 0632		Injection Volume: 100 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	2.0	U	2.0
Freon 22	2.0	U	2.0
1,2-Dichlorotetrafluoroethane	0.80	U	0.80
Chloromethane	2.0	U	2.0
n-Butane	49		2.0
Vinyl chloride	0.80	U	0.80
1,3-Butadiene	0.80	U	0.80
Bromomethane	0.80	U	0.80
Chloroethane	2.0	U	2.0
Bromoethene(Vinyl Bromide)	0.80	U	0.80
Trichlorofluoromethane	1.0		0.80
Freon TF	5.4		0.80
1,1-Dichloroethene	0.80	U	0.80
Acetone	150		20
Isopropyl alcohol	20	U	20
Carbon disulfide	2.0	U	2.0
3-Chloropropene	2.0	U	2.0
Methylene Chloride	6.2		2.0
tert-Butyl alcohol	20	U	20
Methyl tert-butyl ether	0.80	U	0.80
trans-1,2-Dichloroethene	0.80	U	0.80
n-Hexane	23		0.80
1,1-Dichloroethane	0.80	U	0.80
Methyl Ethyl Ketone	16		2.0
cis-1,2-Dichloroethene	0.80	U	0.80
1,2-Dichloroethene, Total	0.80	U	0.80
Chloroform	0.80	U	0.80
Tetrahydrofuran	20	U	20
1,1,1-Trichloroethane	0.80	U	0.80
Cyclohexane	1.9		0.80
Carbon tetrachloride	0.80	U	0.80
2,2,4-Trimethylpentane	1.8		0.80
Benzene	5.1		0.80
1,2-Dichloroethane	0.80	U	0.80
n-Heptane	19		0.80
Trichloroethene	0.80	U	0.80
Methyl methacrylate	2.0	U	2.0
1,2-Dichloropropane	0.80	U	0.80
1,4-Dioxane	20	U	20
Bromodichloromethane	0.80	U	0.80
cis-1,3-Dichloropropene	0.80	U	0.80
methyl isobutyl ketone	2.0	U	2.0
Toluene	14		0.80
trans-1,3-Dichloropropene	0.80	U	0.80
1,1,2-Trichloroethane	0.80	U	0.80
Tetrachloroethene	0.80	U	0.80

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-04**

Lab Sample ID: 200-3885-4
Client Matrix: Air

Date Sampled: 02/15/2011 1442
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275		Instrument ID:	B.i
Preparation:	Summa Canister			Lab File ID:	bjxi025.d
Dilution:	4.0			Initial Weight/Volume:	50 mL
Date Analyzed:	02/26/2011 0632			Final Weight/Volume:	200 mL
Date Prepared:	02/26/2011 0632			Injection Volume:	100 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	0.80	U	0.80
1,2-Dibromoethane	0.80	U	0.80
Chlorobenzene	0.92		0.80
Ethylbenzene	0.80	U	0.80
m,p-Xylene	2.4		2.0
Xylene, o-	0.80	U	0.80
Xylene (total)	3.0		0.80
Styrene	0.80	U	0.80
Bromoform	0.80	U	0.80
Cumene	0.80	U	0.80
1,1,2,2-Tetrachloroethane	0.80	U	0.80
n-Propylbenzene	0.80	U	0.80
4-Ethyltoluene	3.3		0.80
1,3,5-Trimethylbenzene	6.7		0.80
2-Chlorotoluene	0.80	U	0.80
tert-Butylbenzene	0.80	U	0.80
1,2,4-Trimethylbenzene	10		0.80
sec-Butylbenzene	0.80	U	0.80
4-Isopropyltoluene	20		0.80
1,3-Dichlorobenzene	0.80	U	0.80
1,4-Dichlorobenzene	0.80	U	0.80
Benzyl chloride	0.80	U	0.80
n-Butylbenzene	0.80	U	0.80
1,2-Dichlorobenzene	0.80	U	0.80
1,2,4-Trichlorobenzene	2.0	U	2.0
Hexachlorobutadiene	0.80	U	0.80
Naphthalene	2.0	U	2.0

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	9.9	U	9.9
Freon 22	7.1	U	7.1
1,2-Dichlorotetrafluoroethane	5.6	U	5.6
Chloromethane	4.1	U	4.1
n-Butane	120		4.8
Vinyl chloride	2.0	U	2.0
1,3-Butadiene	1.8	U	1.8
Bromomethane	3.1	U	3.1
Chloroethane	5.3	U	5.3
Bromoethene(Vinyl Bromide)	3.5	U	3.5
Trichlorofluoromethane	5.8		4.5
Freon TF	42		6.1
1,1-Dichloroethene	3.2	U	3.2
Acetone	350		48
Isopropyl alcohol	49	U	49
Carbon disulfide	6.2	U	6.2

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-04**

Lab Sample ID: 200-3885-4
Client Matrix: Air

Date Sampled: 02/15/2011 1442
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275	Instrument ID: B.i
Preparation:	Summa Canister		Lab File ID: bjxi025.d
Dilution:	4.0		Initial Weight/Volume: 50 mL
Date Analyzed:	02/26/2011 0632		Final Weight/Volume: 200 mL
Date Prepared:	02/26/2011 0632		Injection Volume: 100 mL

Analyte	Result (ug/m3)	Qualifier	RL
3-Chloropropene	6.3	U	6.3
Methylene Chloride	21		6.9
tert-Butyl alcohol	61	U	61
Methyl tert-butyl ether	2.9	U	2.9
trans-1,2-Dichloroethene	3.2	U	3.2
n-Hexane	81		2.8
1,1-Dichloroethane	3.2	U	3.2
Methyl Ethyl Ketone	46		5.9
cis-1,2-Dichloroethene	3.2	U	3.2
1,2-Dichloroethene, Total	3.2	U	3.2
Chloroform	3.9	U	3.9
Tetrahydrofuran	59	U	59
1,1,1-Trichloroethane	4.4	U	4.4
Cyclohexane	6.7		2.8
Carbon tetrachloride	5.0	U	5.0
2,2,4-Trimethylpentane	8.3		3.7
Benzene	16		2.6
1,2-Dichloroethane	3.2	U	3.2
n-Heptane	77		3.3
Trichloroethene	4.3	U	4.3
Methyl methacrylate	8.2	U	8.2
1,2-Dichloropropane	3.7	U	3.7
1,4-Dioxane	72	U	72
Bromodichloromethane	5.4	U	5.4
cis-1,3-Dichloropropene	3.6	U	3.6
methyl isobutyl ketone	8.2	U	8.2
Toluene	52		3.0
trans-1,3-Dichloropropene	3.6	U	3.6
1,1,2-Trichloroethane	4.4	U	4.4
Tetrachloroethene	5.4	U	5.4
Methyl Butyl Ketone (2-Hexanone)	8.2	U	8.2
Dibromochloromethane	6.8	U	6.8
1,2-Dibromoethane	6.1	U	6.1
Chlorobenzene	4.2		3.7
Ethylbenzene	3.5	U	3.5
m,p-Xylene	10		8.7
Xylene, o-	3.5	U	3.5
Xylene (total)	13		3.5
Styrene	3.4	U	3.4
Bromoform	8.3	U	8.3
Cumene	3.9	U	3.9
1,1,2,2-Tetrachloroethane	5.5	U	5.5
n-Propylbenzene	3.9	U	3.9
4-Ethyltoluene	16		3.9
1,3,5-Trimethylbenzene	33		3.9
2-Chlorotoluene	4.1	U	4.1

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Client Sample ID: **SCA-021511-04**

Lab Sample ID: 200-3885-4
Client Matrix: Air

Date Sampled: 02/15/2011 1442
Date Received: 02/18/2011 1140

TO-15 Volatile Organic Compounds in Ambient Air

Method:	TO-15	Analysis Batch: 200-14275		Instrument ID:	B.i
Preparation:	Summa Canister			Lab File ID:	bjxi025.d
Dilution:	4.0			Initial Weight/Volume:	50 mL
Date Analyzed:	02/26/2011 0632			Final Weight/Volume:	200 mL
Date Prepared:	02/26/2011 0632			Injection Volume:	100 mL

Analyte	Result (ug/m3)	Qualifier	RL
tert-Butylbenzene	4.4	U	4.4
1,2,4-Trimethylbenzene	49		3.9
sec-Butylbenzene	4.4	U	4.4
4-Isopropyltoluene	110		4.4
1,3-Dichlorobenzene	4.8	U	4.8
1,4-Dichlorobenzene	4.8	U	4.8
Benzyl chloride	4.1	U	4.1
n-Butylbenzene	4.4	U	4.4
1,2-Dichlorobenzene	4.8	U	4.8
1,2,4-Trichlorobenzene	15	U	15
Hexachlorobutadiene	8.5	U	8.5
Naphthalene	10	U	10

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Method Blank - Batch: 200-14275

Method: TO-15
Preparation: Summa Canister

Lab Sample ID: MB 200-14275/4
Client Matrix: Air
Dilution: 1.0
Date Analyzed: 02/25/2011 1153
Date Prepared: 02/25/2011 1153

Analysis Batch: 200-14275
Prep Batch: N/A
Units: ppb v/v

Instrument ID: B.i
Lab File ID: bjxi004.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result	Qual	RL
Dichlorodifluoromethane	0.50	U	0.50
Freon 22	0.50	U	0.50
1,2-Dichlorotetrafluoroethane	0.20	U	0.20
Chloromethane	0.50	U	0.50
n-Butane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
1,3-Butadiene	0.20	U	0.20
Bromomethane	0.20	U	0.20
Chloroethane	0.50	U	0.50
Bromoethene(Vinyl Bromide)	0.20	U	0.20
Trichlorofluoromethane	0.20	U	0.20
Freon TF	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	5.0	U	5.0
Isopropyl alcohol	5.0	U	5.0
Carbon disulfide	0.50	U	0.50
3-Chloropropene	0.50	U	0.50
Methylene Chloride	0.50	U	0.50
tert-Butyl alcohol	5.0	U	5.0
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
n-Hexane	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
1,2-Dichloroethene, Total	0.20	U	0.20
Chloroform	0.20	U	0.20
Tetrahydrofuran	5.0	U	5.0
1,1,1-Trichloroethane	0.20	U	0.20
Cyclohexane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
2,2,4-Trimethylpentane	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
n-Heptane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
Methyl methacrylate	0.50	U	0.50
1,2-Dichloropropane	0.20	U	0.20
1,4-Dioxane	5.0	U	5.0
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.20	U	0.20

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Method Blank - Batch: 200-14275

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-14275/4	Analysis Batch:	200-14275	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bjxi004.d
Dilution:	1.0	Units:	ppb v/v	Initial Weight/Volume:	200 mL
Date Analyzed:	02/25/2011 1153			Final Weight/Volume:	200 mL
Date Prepared:	02/25/2011 1153			Injection Volume:	200 mL

Analyte	Result	Qual	RL
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Xylene (total)	0.20	U	0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
n-Propylbenzene	0.20	U	0.20
4-Ethyltoluene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
2-Chlorotoluene	0.20	U	0.20
tert-Butylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
Benzyl chloride	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,2,4-Trichlorobenzene	0.50	U	0.50
Hexachlorobutadiene	0.20	U	0.20
Naphthalene	0.50	U	0.50

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Method Blank - Batch: 200-14275

Method: TO-15
Preparation: Summa Canister

Lab Sample ID: MB 200-14275/4
Client Matrix: Air
Dilution: 1.0
Date Analyzed: 02/25/2011 1153
Date Prepared: 02/25/2011 1153

Analysis Batch: 200-14275
Prep Batch: N/A
Units: ug/m3

Instrument ID: B.i
Lab File ID: bjxi004.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result	Qual	RL
Dichlorodifluoromethane	2.5	U	2.5
Freon 22	1.8	U	1.8
1,2-Dichlorotetrafluoroethane	1.4	U	1.4
Chloromethane	1.0	U	1.0
n-Butane	1.2	U	1.2
Vinyl chloride	0.51	U	0.51
1,3-Butadiene	0.44	U	0.44
Bromomethane	0.78	U	0.78
Chloroethane	1.3	U	1.3
Bromoethene(Vinyl Bromide)	0.87	U	0.87
Trichlorofluoromethane	1.1	U	1.1
Freon TF	1.5	U	1.5
1,1-Dichloroethene	0.79	U	0.79
Acetone	12	U	12
Isopropyl alcohol	12	U	12
Carbon disulfide	1.6	U	1.6
3-Chloropropene	1.6	U	1.6
Methylene Chloride	1.7	U	1.7
tert-Butyl alcohol	15	U	15
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
n-Hexane	0.70	U	0.70
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5	U	1.5
cis-1,2-Dichloroethene	0.79	U	0.79
1,2-Dichloroethene, Total	0.79	U	0.79
Chloroform	0.98	U	0.98
Tetrahydrofuran	15	U	15
1,1,1-Trichloroethane	1.1	U	1.1
Cyclohexane	0.69	U	0.69
Carbon tetrachloride	1.3	U	1.3
2,2,4-Trimethylpentane	0.93	U	0.93
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
n-Heptane	0.82	U	0.82
Trichloroethene	1.1	U	1.1
Methyl methacrylate	2.0	U	2.0
1,2-Dichloropropane	0.92	U	0.92
1,4-Dioxane	18	U	18
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.75	U	0.75

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Method Blank - Batch: 200-14275

Method: TO-15
Preparation: Summa Canister

Lab Sample ID: MB 200-14275/4
Client Matrix: Air
Dilution: 1.0
Date Analyzed: 02/25/2011 1153
Date Prepared: 02/25/2011 1153

Analysis Batch: 200-14275
Prep Batch: N/A
Units: ug/m3

Instrument ID: B.i
Lab File ID: bjxi004.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Result	Qual	RL
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Xylene (total)	0.87	U	0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
n-Propylbenzene	0.98	U	0.98
4-Ethyltoluene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
2-Chlorotoluene	1.0	U	1.0
tert-Butylbenzene	1.1	U	1.1
1,2,4-Trimethylbenzene	0.98	U	0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.1	U	1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
Benzyl chloride	1.0	U	1.0
n-Butylbenzene	1.1	U	1.1
1,2-Dichlorobenzene	1.2	U	1.2
1,2,4-Trichlorobenzene	3.7	U	3.7
Hexachlorobutadiene	2.1	U	2.1
Naphthalene	2.6	U	2.6

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Lab Control Sample - Batch: 200-14275

Method: TO-15
Preparation: Summa Canister

Lab Sample ID: LCS 200-14275/3
Client Matrix: Air
Dilution: 1.0
Date Analyzed: 02/25/2011 1100
Date Prepared: 02/25/2011 1100

Analysis Batch: 200-14275
Prep Batch: N/A
Units: ppb v/v

Instrument ID: B.i
Lab File ID: bjxi003.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	9.33	93	70 - 130	
Freon 22	10.0	9.35	94	70 - 130	
1,2-Dichlorotetrafluoroethane	10.0	9.03	90	70 - 130	
Chloromethane	10.0	9.30	93	70 - 130	
n-Butane	10.0	9.08	91	70 - 130	
Vinyl chloride	10.0	8.86	89	70 - 130	
1,3-Butadiene	10.0	9.31	93	70 - 130	
Bromomethane	10.0	8.70	87	70 - 130	
Chloroethane	10.0	9.37	94	70 - 130	
Bromoethene(Vinyl Bromide)	10.0	9.43	94	70 - 130	
Trichlorofluoromethane	10.0	9.22	92	70 - 130	
Freon TF	10.0	9.97	100	70 - 130	
1,1-Dichloroethene	10.0	10.4	104	70 - 130	
Acetone	10.0	11.0	110	70 - 130	
Isopropyl alcohol	10.0	9.33	93	70 - 130	
Carbon disulfide	10.0	9.68	97	70 - 130	
3-Chloropropene	10.0	9.50	95	70 - 130	
Methylene Chloride	10.0	10.2	102	70 - 130	
tert-Butyl alcohol	10.0	9.47	95	70 - 130	
Methyl tert-butyl ether	10.0	9.69	97	70 - 130	
trans-1,2-Dichloroethene	10.0	9.47	95	70 - 130	
n-Hexane	10.0	9.52	95	70 - 130	
1,1-Dichloroethane	10.0	9.46	95	70 - 130	
Methyl Ethyl Ketone	10.0	10.0	100	70 - 130	
cis-1,2-Dichloroethene	10.0	9.70	97	70 - 130	
Chloroform	10.0	9.19	92	70 - 130	
Tetrahydrofuran	10.0	9.72	97	70 - 130	
1,1,1-Trichloroethane	10.0	9.20	92	70 - 130	
Cyclohexane	10.0	9.32	93	70 - 130	
Carbon tetrachloride	10.0	9.08	91	70 - 130	
2,2,4-Trimethylpentane	10.0	9.56	96	70 - 130	
Benzene	10.0	9.20	92	70 - 130	
1,2-Dichloroethane	10.0	9.12	91	70 - 130	
n-Heptane	10.0	9.42	94	70 - 130	
Trichloroethene	10.0	9.05	91	70 - 130	
Methyl methacrylate	10.0	9.56	96	70 - 130	
1,2-Dichloropropane	10.0	9.11	91	70 - 130	
1,4-Dioxane	10.0	8.09	81	70 - 130	
Bromodichloromethane	10.0	9.57	96	70 - 130	
cis-1,3-Dichloropropene	10.0	9.20	92	70 - 130	
methyl isobutyl ketone	10.0	9.96	100	70 - 130	
Toluene	10.0	9.14	91	70 - 130	
trans-1,3-Dichloropropene	10.0	9.13	91	70 - 130	
1,1,2-Trichloroethane	10.0	8.74	87	70 - 130	

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Lab Control Sample - Batch: 200-14275

Method: TO-15
Preparation: Summa Canister

Lab Sample ID: LCS 200-14275/3
Client Matrix: Air
Dilution: 1.0
Date Analyzed: 02/25/2011 1100
Date Prepared: 02/25/2011 1100

Analysis Batch: 200-14275
Prep Batch: N/A
Units: ppb v/v

Instrument ID: B.i
Lab File ID: bjxi003.d
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL
Injection Volume: 200 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	10.0	8.77	88	70 - 130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.76	98	70 - 130	
Dibromochloromethane	10.0	9.82	98	70 - 130	
1,2-Dibromoethane	10.0	8.97	90	70 - 130	
Chlorobenzene	10.0	8.68	87	70 - 130	
Ethylbenzene	10.0	9.06	91	70 - 130	
m,p-Xylene	20.0	18.2	91	70 - 130	
Xylene, o-	10.0	9.13	91	70 - 130	
Styrene	10.0	9.51	95	70 - 130	
Bromoform	10.0	10.0	100	70 - 130	
Cumene	10.0	9.39	94	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	8.99	90	70 - 130	
n-Propylbenzene	10.0	9.46	95	70 - 130	
4-Ethyltoluene	10.0	9.42	94	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.03	90	70 - 130	
2-Chlorotoluene	10.0	9.29	93	70 - 130	
tert-Butylbenzene	10.0	9.24	92	70 - 130	
1,2,4-Trimethylbenzene	10.0	8.93	89	70 - 130	
sec-Butylbenzene	10.0	9.33	93	70 - 130	
4-Isopropyltoluene	10.0	9.51	95	70 - 130	
1,3-Dichlorobenzene	10.0	8.58	86	70 - 130	
1,4-Dichlorobenzene	10.0	8.58	86	70 - 130	
Benzyl chloride	10.0	7.94	79	70 - 130	
n-Butylbenzene	10.0	9.40	94	70 - 130	
1,2-Dichlorobenzene	10.0	8.48	85	70 - 130	
1,2,4-Trichlorobenzene	10.0	9.00	90	70 - 130	
Hexachlorobutadiene	10.0	8.88	89	70 - 130	
Naphthalene	10.0	9.40	94	70 - 130	

DATA REPORTING QUALIFIERS

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
Sdg Number: 200-3885

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-14275					
LCS 200-14275/3	Lab Control Sample	T	Air	TO-15	
MB 200-14275/4	Method Blank	T	Air	TO-15	
200-3885-1	SCA-021511-01	T	Air	TO-15	
200-3885-2	SCA-021511-02	T	Air	TO-15	
200-3885-3	SCA-021511-03	T	Air	TO-15	
200-3885-4	SCA-021511-04	T	Air	TO-15	

Report Basis
T = Total

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
SDG: 200-3885

Laboratory Chronicle

Lab ID: 200-3885-1 **Client ID:** SCA-021511-01

Sample Date/Time: 02/15/2011 12:55 Received Date/Time: 02/18/2011 11:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-3885-A-1		200-14275		02/25/2011 12:46	15.4	TAL BUR	PAD
A:TO-15	200-3885-A-1		200-14275		02/25/2011 12:46	15.4	TAL BUR	PAD

Lab ID: 200-3885-2 **Client ID:** SCA-021511-02

Sample Date/Time: 02/15/2011 13:35 Received Date/Time: 02/18/2011 11:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-3885-A-2		200-14275		02/25/2011 13:38	1	TAL BUR	PAD
A:TO-15	200-3885-A-2		200-14275		02/25/2011 13:38	1	TAL BUR	PAD

Lab ID: 200-3885-3 **Client ID:** SCA-021511-03

Sample Date/Time: 02/15/2011 14:11 Received Date/Time: 02/18/2011 11:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-3885-A-3		200-14275		02/25/2011 14:32	1.25	TAL BUR	PAD
A:TO-15	200-3885-A-3		200-14275		02/25/2011 14:32	1.25	TAL BUR	PAD

Lab ID: 200-3885-4 **Client ID:** SCA-021511-04

Sample Date/Time: 02/15/2011 14:42 Received Date/Time: 02/18/2011 11:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-3885-A-4		200-14275		02/26/2011 06:32	4	TAL BUR	PAD
A:TO-15	200-3885-A-4		200-14275		02/26/2011 06:32	4	TAL BUR	PAD

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	MB 200-14275/4		200-14275		02/25/2011 11:53	1	TAL BUR	PAD
A:TO-15	MB 200-14275/4		200-14275		02/25/2011 11:53	1	TAL BUR	PAD

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
SDG: 200-3885

Laboratory Chronicle

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	LCS 200-14275/3		200-14275		02/25/2011 11:00	1	TAL BUR	PAD
A:TO-15	LCS 200-14275/3		200-14275		02/25/2011 11:00	1	TAL BUR	PAD

Lab References:
TAL BUR = TestAmerica Burlington

Method TO15

Volatile Organic Compounds (GC/MS) by Method TO15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Matrix: Air Level: Low Lab File ID: bjxi003.d

Lab ID: LCS 200-14275/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	9.33	93	70-130	
Freon 22	10.0	9.35	94	70-130	
1,2-Dichlorotetrafluoroethane	10.0	9.03	90	70-130	
Chloromethane	10.0	9.30	93	70-130	
n-Butane	10.0	9.08	91	70-130	
Vinyl chloride	10.0	8.86	89	70-130	
1,3-Butadiene	10.0	9.31	93	70-130	
Bromomethane	10.0	8.70	87	70-130	
Chloroethane	10.0	9.37	94	70-130	
Bromoethene (Vinyl Bromide)	10.0	9.43	94	70-130	
Trichlorofluoromethane	10.0	9.22	92	70-130	
Freon TF	10.0	9.97	100	70-130	
1,1-Dichloroethene	10.0	10.4	104	70-130	
Acetone	10.0	11.0	110	70-130	
Isopropyl alcohol	10.0	9.33	93	70-130	
Carbon disulfide	10.0	9.68	97	70-130	
3-Chloropropene	10.0	9.50	95	70-130	
Methylene Chloride	10.0	10.2	102	70-130	
tert-Butyl alcohol	10.0	9.47	95	70-130	
Methyl tert-butyl ether	10.0	9.69	97	70-130	
trans-1,2-Dichloroethene	10.0	9.47	95	70-130	
n-Hexane	10.0	9.52	95	70-130	
1,1-Dichloroethane	10.0	9.46	95	70-130	
Methyl Ethyl Ketone	10.0	10.0	100	70-130	
cis-1,2-Dichloroethene	10.0	9.70	97	70-130	
Chloroform	10.0	9.19	92	70-130	
Tetrahydrofuran	10.0	9.72	97	70-130	
1,1,1-Trichloroethane	10.0	9.20	92	70-130	
Cyclohexane	10.0	9.32	93	70-130	
Carbon tetrachloride	10.0	9.08	91	70-130	
2,2,4-Trimethylpentane	10.0	9.56	96	70-130	
Benzene	10.0	9.20	92	70-130	
1,2-Dichloroethane	10.0	9.12	91	70-130	
n-Heptane	10.0	9.42	94	70-130	
Trichloroethene	10.0	9.05	91	70-130	
Methyl methacrylate	10.0	9.56	96	70-130	
1,2-Dichloropropane	10.0	9.11	91	70-130	
1,4-Dioxane	10.0	8.09	81	70-130	
Bromodichloromethane	10.0	9.57	96	70-130	
cis-1,3-Dichloropropene	10.0	9.20	92	70-130	
methyl isobutyl ketone	10.0	9.96	100	70-130	
Toluene	10.0	9.14	91	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Matrix: Air Level: Low Lab File ID: bjxi003.d

Lab ID: LCS 200-14275/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	10.0	9.13	91	70-130	
1,1,2-Trichloroethane	10.0	8.74	87	70-130	
Tetrachloroethene	10.0	8.77	88	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.76	98	70-130	
Dibromochloromethane	10.0	9.82	98	70-130	
1,2-Dibromoethane	10.0	8.97	90	70-130	
Chlorobenzene	10.0	8.68	87	70-130	
Ethylbenzene	10.0	9.06	91	70-130	
m,p-Xylene	20.0	18.2	91	70-130	
Xylene, o-	10.0	9.13	91	70-130	
Styrene	10.0	9.51	95	70-130	
Bromoform	10.0	10.0	100	70-130	
Cumene	10.0	9.39	94	70-130	
1,1,2,2-Tetrachloroethane	10.0	8.99	90	70-130	
n-Propylbenzene	10.0	9.46	95	70-130	
4-Ethyltoluene	10.0	9.42	94	70-130	
1,3,5-Trimethylbenzene	10.0	9.03	90	70-130	
2-Chlorotoluene	10.0	9.29	93	70-130	
tert-Butylbenzene	10.0	9.24	92	70-130	
1,2,4-Trimethylbenzene	10.0	8.93	89	70-130	
sec-Butylbenzene	10.0	9.33	93	70-130	
4-Isopropyltoluene	10.0	9.51	95	70-130	
1,3-Dichlorobenzene	10.0	8.58	86	70-130	
1,4-Dichlorobenzene	10.0	8.58	86	70-130	
Benzyl chloride	10.0	7.94	79	70-130	
n-Butylbenzene	10.0	9.40	94	70-130	
1,2-Dichlorobenzene	10.0	8.48	85	70-130	
1,2,4-Trichlorobenzene	10.0	9.00	90	70-130	
Hexachlorobutadiene	10.0	8.88	89	70-130	
Naphthalene	10.0	9.40	94	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Lab File ID: bjxi004.d Lab Sample ID: MB 200-14275/4

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: B.i Date Analyzed: 02/25/2011 11:53

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-14275/3	bjxi003.d	02/25/2011 11:00
SCA-021511-01	200-3885-1	bjxi005.d	02/25/2011 12:46
SCA-021511-02	200-3885-2	bjxi006.d	02/25/2011 13:38
SCA-021511-03	200-3885-3	bjxi007.d	02/25/2011 14:32
SCA-021511-04	200-3885-4	bjxi025.d	02/26/2011 06:32

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Lab File ID: bjx001.d BFB Injection Date: 02/09/2011

Instrument ID: B.i BFB Injection Time: 11:23

Analysis Batch No.: 13474

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	15.8	
75	30.0 - 66.0% of mass 95	45.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.3	(0.4)1
174	50.0 - 120.0% of mass 95	79.2	
175	4.0 - 9.0 % of mass 174	5.6	(7.1)1
176	93.0 - 101.0% of mass 174	77.0	(97.2)1
177	5.0 - 9.0% of mass 176	5.0	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-13474/5	bjx005.d	02/09/2011	15:04
	IC 200-13474/6	bjx006.d	02/09/2011	15:56
	IC 200-13474/7	bjx007.d	02/09/2011	16:49
	ICIS 200-13474/8	bjx008.d	02/09/2011	17:41
	IC 200-13474/9	bjx009.d	02/09/2011	18:34
	IC 200-13474/10	bjx010.d	02/09/2011	19:26
	IC 200-13474/11	bjx011.d	02/09/2011	20:19
	ICV 200-13474/14	bjx014.d	02/09/2011	22:56

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Lab File ID: bjxi001.d BFB Injection Date: 02/25/2011

Instrument ID: B.i BFB Injection Time: 09:21

Analysis Batch No.: 14275

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.6	
75	30.0 - 66.0% of mass 95	46.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.4	(0.6)1
174	50.0 - 120.0% of mass 95	75.9	
175	4.0 - 9.0 % of mass 174	5.5	(7.2)1
176	93.0 - 101.0% of mass 174	73.6	(97.0)1
177	5.0 - 9.0% of mass 176	4.8	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-14275/2	bjxi002.d	02/25/2011	10:10
	LCS 200-14275/3	bjxi003.d	02/25/2011	11:00
	MB 200-14275/4	bjxi004.d	02/25/2011	11:53
SCA-021511-01	200-3885-1	bjxi005.d	02/25/2011	12:46
SCA-021511-02	200-3885-2	bjxi006.d	02/25/2011	13:38
SCA-021511-03	200-3885-3	bjxi007.d	02/25/2011	14:32
SCA-021511-04	200-3885-4	bjxi025.d	02/26/2011	06:32

FORM VIII

AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Sample No.: ICIS 200-13474/8 Date Analyzed: 02/09/2011 17:41

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): bjx008.d Heated Purge: (Y/N) N

Calibration ID: 4769

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		611493	9.21	3090147	10.62	2798819	14.75
UPPER LIMIT		856090	9.54	4326206	10.95	3918347	15.08
LOWER LIMIT		366896	8.88	1854088	10.29	1679291	14.42
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-13474/14		661835	9.21	3384787	10.62	3025735	14.75

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Sample No.: CCVIS 200-14275/2 Date Analyzed: 02/25/2011 10:10

Instrument ID: B.i GC Column: RTX-624 ID: 0.32 (mm)

Lab File ID (Standard): bjxi002.d Heated Purge: (Y/N) N

Calibration ID: 4769

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		578997	9.21	2940631	10.62	2651545	14.75
UPPER LIMIT		810596	9.54	4116883	10.95	3712163	15.08
LOWER LIMIT		347398	8.88	1764379	10.29	1590927	14.42
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-14275/3		605310	9.21	3091088	10.62	2789272	14.75
MB 200-14275/4		595614	9.21	3082335	10.62	2719949	14.75
200-3885-1	SCA-021511-01	569908	9.21	3032670	10.62	2592955	14.75
200-3885-2	SCA-021511-02	621211	9.21	3242559	10.62	2876559	14.75
200-3885-3	SCA-021511-03	559639	9.21	2891748	10.62	2574429	14.75
200-3885-4	SCA-021511-04	407254	9.21	2044752	10.62	1885755	14.75

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-01 Lab Sample ID: 200-3885-1

Matrix: Air Lab File ID: bjxi005.d

Analysis Method: TO-15 Date Collected: 02/15/2011 12:55

Sample wt/vol: 13(mL) Date Analyzed: 02/25/2011 12:46

Soil Aliquot Vol: Dilution Factor: 15.4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	7.7	U	7.7	0.18
75-45-6	Freon 22	86.47	7.7	U	7.7	0.52
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	3.1	U	3.1	0.18
74-87-3	Chloromethane	50.49	7.7	U	7.7	0.32
106-97-8	n-Butane	58.12	130		7.7	1.3
75-01-4	Vinyl chloride	62.50	3.1	U	3.1	0.38
106-99-0	1,3-Butadiene	54.09	3.1	U	3.1	0.42
74-83-9	Bromomethane	94.94	3.1	U	3.1	0.22
75-00-3	Chloroethane	64.52	7.7	U	7.7	1.5
593-60-2	Bromoethene(Vinyl Bromide)	106.96	3.1	U	3.1	0.77
75-69-4	Trichlorofluoromethane	137.37	3.1	U	3.1	0.77
76-13-1	Freon TF	187.38	4.6		3.1	0.77
75-35-4	1,1-Dichloroethene	96.94	3.1	U	3.1	0.23
67-64-1	Acetone	58.08	320		77	15
67-63-0	Isopropyl alcohol	60.10	77	U	77	0.66
75-15-0	Carbon disulfide	76.14	7.7	U	7.7	0.77
107-05-1	3-Chloropropene	76.53	7.7	U	7.7	0.45
75-09-2	Methylene Chloride	84.93	7.7	U	7.7	0.46
75-65-0	tert-Butyl alcohol	74.12	77	U	77	1.5
1634-04-4	Methyl tert-butyl ether	88.15	3.1	U	3.1	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	3.1	U	3.1	0.77
110-54-3	n-Hexane	86.17	100		3.1	0.35
75-34-3	1,1-Dichloroethane	98.96	3.1	U	3.1	0.20
78-93-3	Methyl Ethyl Ketone	72.11	40		7.7	0.99
156-59-2	cis-1,2-Dichloroethene	96.94	3.1	U	3.1	0.77
540-59-0	1,2-Dichloroethene, Total	96.94	3.1	U	3.1	1.5
67-66-3	Chloroform	119.38	3.1	U	3.1	0.77
109-99-9	Tetrahydrofuran	72.11	77	U	77	1.5
71-55-6	1,1,1-Trichloroethane	133.41	3.1	U	3.1	0.77
110-82-7	Cyclohexane	84.16	7.2		3.1	0.18
56-23-5	Carbon tetrachloride	153.81	3.1	U	3.1	0.77
540-84-1	2,2,4-Trimethylpentane	114.23	13		3.1	0.20
71-43-2	Benzene	78.11	12		3.1	0.77
107-06-2	1,2-Dichloroethane	98.96	3.1	U	3.1	0.23
142-82-5	n-Heptane	100.21	130		3.1	0.42

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-01 Lab Sample ID: 200-3885-1

Matrix: Air Lab File ID: bjxi005.d

Analysis Method: TO-15 Date Collected: 02/15/2011 12:55

Sample wt/vol: 13(mL) Date Analyzed: 02/25/2011 12:46

Soil Aliquot Vol: Dilution Factor: 15.4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	3.1	U	3.1	0.22
80-62-6	Methyl methacrylate	100.12	7.7	U	7.7	1.5
78-87-5	1,2-Dichloropropane	112.99	3.1	U	3.1	0.25
123-91-1	1,4-Dioxane	88.11	77	U	77	0.54
75-27-4	Bromodichloromethane	163.83	3.1	U	3.1	0.77
10061-01-5	cis-1,3-Dichloropropene	110.97	3.1	U	3.1	0.77
108-10-1	methyl isobutyl ketone	100.16	7.7	U	7.7	0.99
108-88-3	Toluene	92.14	31		3.1	0.77
10061-02-6	trans-1,3-Dichloropropene	110.97	3.1	U	3.1	0.99
79-00-5	1,1,2-Trichloroethane	133.41	3.1	U	3.1	0.77
127-18-4	Tetrachloroethene	165.83	3.1	U	3.1	0.26
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	7.7	U	7.7	0.43
124-48-1	Dibromochloromethane	208.29	3.1	U	3.1	0.77
106-93-4	1,2-Dibromoethane	187.87	3.1	U	3.1	0.18
108-90-7	Chlorobenzene	112.30	3.1	U	3.1	0.77
100-41-4	Ethylbenzene	106.17	3.1	U	3.1	0.22
179601-23-1	m,p-Xylene	106.17	7.7	U	7.7	0.35
95-47-6	Xylene, o-	106.17	3.1	U	3.1	0.77
1330-20-7	Xylene (total)	106.17	6.4		3.1	2.3
100-42-5	Styrene	104.15	3.1	U	3.1	0.77
75-25-2	Bromoform	252.75	3.1	U	3.1	0.77
98-82-8	Cumene	120.19	3.3		3.1	0.77
79-34-5	1,1,2,2-Tetrachloroethane	167.85	3.1	U	3.1	0.77
103-65-1	n-Propylbenzene	120.19	8.6		3.1	0.99
622-96-8	4-Ethyltoluene	120.20	8.3		3.1	0.99
108-67-8	1,3,5-Trimethylbenzene	120.20	19		3.1	0.99
95-49-8	2-Chlorotoluene	126.59	3.1	U	3.1	0.99
98-06-6	tert-Butylbenzene	134.22	3.1	U	3.1	0.77
95-63-6	1,2,4-Trimethylbenzene	120.20	30		3.1	0.99
135-98-8	sec-Butylbenzene	134.22	3.6		3.1	0.34
99-87-6	4-Isopropyltoluene	134.22	27		3.1	0.20
541-73-1	1,3-Dichlorobenzene	147.00	3.1	U	3.1	0.28
106-46-7	1,4-Dichlorobenzene	147.00	3.1	U	3.1	0.32
100-44-7	Benzyl chloride	126.58	3.1	U	3.1	0.34
104-51-8	n-Butylbenzene	134.22	3.1	U	3.1	0.99

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-01 Lab Sample ID: 200-3885-1

Matrix: Air Lab File ID: bjxi005.d

Analysis Method: TO-15 Date Collected: 02/15/2011 12:55

Sample wt/vol: 13(mL) Date Analyzed: 02/25/2011 12:46

Soil Aliquot Vol: Dilution Factor: 15.4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	3.1	U	3.1	0.26
120-82-1	1,2,4-Trichlorobenzene	181.45	7.7	U	7.7	0.49
87-68-3	Hexachlorobutadiene	260.76	3.1	U	3.1	0.34
91-20-3	Naphthalene	128.17	7.7	U	7.7	0.63

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-01 Lab Sample ID: 200-3885-1

Matrix: Air Lab File ID: bjxi005.d

Analysis Method: TO-15 Date Collected: 02/15/2011 12:55

Sample wt/vol: 13(mL) Date Analyzed: 02/25/2011 12:46

Soil Aliquot Vol: Dilution Factor: 15.4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	38	U	38	0.91
75-45-6	Freon 22	86.47	27	U	27	1.9
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	22	U	22	1.3
74-87-3	Chloromethane	50.49	16	U	16	0.67
106-97-8	n-Butane	58.12	310		18	3.1
75-01-4	Vinyl chloride	62.50	7.9	U	7.9	0.98
106-99-0	1,3-Butadiene	54.09	6.8	U	6.8	0.92
74-83-9	Bromomethane	94.94	12	U	12	0.84
75-00-3	Chloroethane	64.52	20	U	20	4.1
593-60-2	Bromoethene(Vinyl Bromide)	106.96	13	U	13	3.4
75-69-4	Trichlorofluoromethane	137.37	17	U	17	4.3
76-13-1	Freon TF	187.38	35		24	5.9
75-35-4	1,1-Dichloroethene	96.94	12	U	12	0.92
67-64-1	Acetone	58.08	760		180	36
67-63-0	Isopropyl alcohol	60.10	190	U	190	1.6
75-15-0	Carbon disulfide	76.14	24	U	24	2.4
107-05-1	3-Chloropropene	76.53	24	U	24	1.4
75-09-2	Methylene Chloride	84.93	27	U	27	1.6
75-65-0	tert-Butyl alcohol	74.12	230	U	230	4.7
1634-04-4	Methyl tert-butyl ether	88.15	11	U	11	0.72
156-60-5	trans-1,2-Dichloroethene	96.94	12	U	12	3.1
110-54-3	n-Hexane	86.17	360		11	1.2
75-34-3	1,1-Dichloroethane	98.96	12	U	12	0.81
78-93-3	Methyl Ethyl Ketone	72.11	120		23	2.9
156-59-2	cis-1,2-Dichloroethene	96.94	12	U	12	3.1
540-59-0	1,2-Dichloroethene, Total	96.94	12	U	12	6.1
67-66-3	Chloroform	119.38	15	U	15	3.8
109-99-9	Tetrahydrofuran	72.11	230	U	230	4.5
71-55-6	1,1,1-Trichloroethane	133.41	17	U	17	4.2
110-82-7	Cyclohexane	84.16	25		11	0.64
56-23-5	Carbon tetrachloride	153.81	19	U	19	4.8
540-84-1	2,2,4-Trimethylpentane	114.23	58		14	0.94
71-43-2	Benzene	78.11	40		9.8	2.5
107-06-2	1,2-Dichloroethane	98.96	12	U	12	0.93
142-82-5	n-Heptane	100.21	540		13	1.7

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-01 Lab Sample ID: 200-3885-1

Matrix: Air Lab File ID: bjxi005.d

Analysis Method: TO-15 Date Collected: 02/15/2011 12:55

Sample wt/vol: 13(mL) Date Analyzed: 02/25/2011 12:46

Soil Aliquot Vol: Dilution Factor: 15.4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	17	U	17	1.2
80-62-6	Methyl methacrylate	100.12	32	U	32	6.3
78-87-5	1,2-Dichloropropane	112.99	14	U	14	1.1
123-91-1	1,4-Dioxane	88.11	280	U	280	1.9
75-27-4	Bromodichloromethane	163.83	21	U	21	5.2
10061-01-5	cis-1,3-Dichloropropene	110.97	14	U	14	3.5
108-10-1	methyl isobutyl ketone	100.16	32	U	32	4.0
108-88-3	Toluene	92.14	120		12	2.9
10061-02-6	trans-1,3-Dichloropropene	110.97	14	U	14	4.5
79-00-5	1,1,2-Trichloroethane	133.41	17	U	17	4.2
127-18-4	Tetrachloroethene	165.83	21	U	21	1.8
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	32	U	32	1.8
124-48-1	Dibromochloromethane	208.29	26	U	26	6.6
106-93-4	1,2-Dibromoethane	187.87	24	U	24	1.4
108-90-7	Chlorobenzene	112.30	14	U	14	3.5
100-41-4	Ethylbenzene	106.17	13	U	13	0.94
179601-23-1	m,p-Xylene	106.17	33	U	33	1.5
95-47-6	Xylene, o-	106.17	13	U	13	3.3
1330-20-7	Xylene (total)	106.17	28		13	10
100-42-5	Styrene	104.15	13	U	13	3.3
75-25-2	Bromoform	252.75	32	U	32	8.0
98-82-8	Cumene	120.19	16		15	3.8
79-34-5	1,1,2,2-Tetrachloroethane	167.85	21	U	21	5.3
103-65-1	n-Propylbenzene	120.19	42		15	4.8
622-96-8	4-Ethyltoluene	120.20	41		15	4.8
108-67-8	1,3,5-Trimethylbenzene	120.20	94		15	4.8
95-49-8	2-Chlorotoluene	126.59	16	U	16	5.1
98-06-6	tert-Butylbenzene	134.22	17	U	17	4.2
95-63-6	1,2,4-Trimethylbenzene	120.20	150		15	4.8
135-98-8	sec-Butylbenzene	134.22	20		17	1.9
99-87-6	4-Isopropyltoluene	134.22	150		17	1.1
541-73-1	1,3-Dichlorobenzene	147.00	19	U	19	1.7
106-46-7	1,4-Dichlorobenzene	147.00	19	U	19	1.9
100-44-7	Benzyl chloride	126.58	16	U	16	1.8
104-51-8	n-Butylbenzene	134.22	17	U	17	5.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-01 Lab Sample ID: 200-3885-1

Matrix: Air Lab File ID: bjxi005.d

Analysis Method: TO-15 Date Collected: 02/15/2011 12:55

Sample wt/vol: 13(mL) Date Analyzed: 02/25/2011 12:46

Soil Aliquot Vol: Dilution Factor: 15.4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	19	U	19	1.6
120-82-1	1,2,4-Trichlorobenzene	181.45	57	U	57	3.7
87-68-3	Hexachlorobutadiene	260.76	33	U	33	3.6
91-20-3	Naphthalene	128.17	40	U	40	3.3

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-3885-1
Client Smp ID: SCA-021511-01
Inj Date : 25-FEB-2011 12:46
Operator : pad Inst ID: B.i
Smp Info : 200-3885-A-1
Misc Info : 13,15.4, all74
Comment :
Method : /chem/B.i/Bsvr.p/bjxito15.b/to15v5.m
Meth Date : 27-Feb-2011 09:51 klp Quant Type: ISTD
Cal Date : 09-FEB-2011 20:19 Cal File: bjx011.d
Als bottle: 4
Dil Factor: 15.40000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	15.40000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	13.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	3.488	3.488	(0.379)	378832	8.45396	130(Q)
7 Vinyl chloride	62	3.520	3.526	(0.382)	4343	0.11832	1.8(a)
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
17 1,1,2-Trichloro-1,2,2-trifluo	101	5.804	5.804	(0.630)	37464	0.29658	4.6
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.050	6.055	(0.657)	2048641	20.6622	320
21 Carbon disulfide	76	Compound Not Detected.					

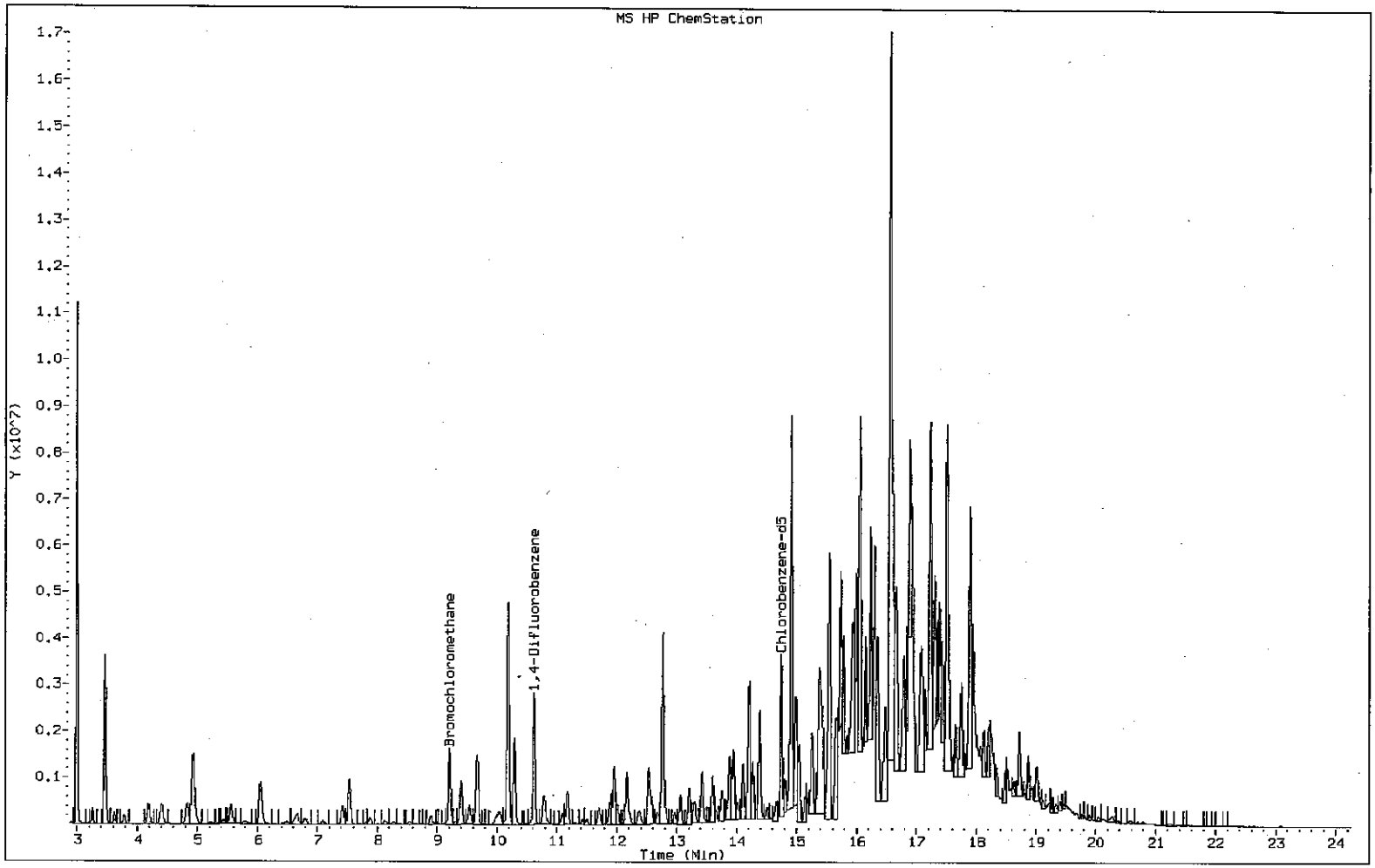
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	CONCENTRATIONS FINAL (ppb v/v)
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.813	6.813	(0.740)	16238	0.21812	3.4(aQ)
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.539	7.544	(0.819)	771251	6.59315	100
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	8.894	8.868	(0.966)	90423	2.59589	40(Q)
*	37 Bromochloromethane	128	9.209	9.215	(1.000)	569908	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	9.546	9.551	(0.899)	50993	0.47028	7.2(Q)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	10.026	10.037	(0.944)	302231	0.81204	13(Q)
	44 Benzene	78	10.063	10.069	(0.948)	190371	0.80568	12
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	10.287	10.293	(0.969)	1153326	8.58957	130
*	47 1,4-Difluorobenzene	114	10.618	10.624	(1.000)	3032670	10.0000	
	49 Trichloroethene	95	10.981	10.986	(1.034)	5261	0.05255	0.81(a)
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	11.419	11.419	(1.075)	33538	0.41415	6.4(a)
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	12.758	12.764	(0.865)	325805	2.02978	31
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.532	13.532	(0.917)	19749	0.17516	2.7(a)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.749	14.754	(1.000)	2592955	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	14.872	14.872	(1.008)	39229	0.11150	1.7(a)
	69 Xylene (m,p)	106	15.016	15.027	(1.018)	55945	0.41255	6.4(aQ)
M	70 Xylenes, Total	106				55945	0.41255	6.4
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	15.977	15.982	(1.083)	82284	0.21728	3.3(Q)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	16.468	16.473	(1.117)	262013	0.55634	8.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	CONCENTRATIONS FINAL (ppb v/v)
79 4-Ethyltoluene	105	16.590	16.601	(1.125)	216148	0.54160	8.3(M)
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	16.670	16.676	(1.130)	404099	1.23537	19
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	17.103	17.108	(1.160)	629006	1.93919	30
85 sec-Butylbenzene	105	17.284	17.284	(1.172)	108023	0.23234	3.6
86 4-Isopropyltoluene	119	17.434	17.439	(1.182)	672823	1.76158	27
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	17.604	17.610	(1.194)	10060	0.04722	0.73(aQ)
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	18.063	18.058	(1.225)	18390	0.09181	1.4(aQ)
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File:	bjxi005.d	Date:	25-FEB-2011 12:46
Client ID:	SCA-021511-01	Instrument:	B.i
Operator:	pad	Inj Vol:	100.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-3885-A-1		
Lab Sample ID:	200-3885-1		



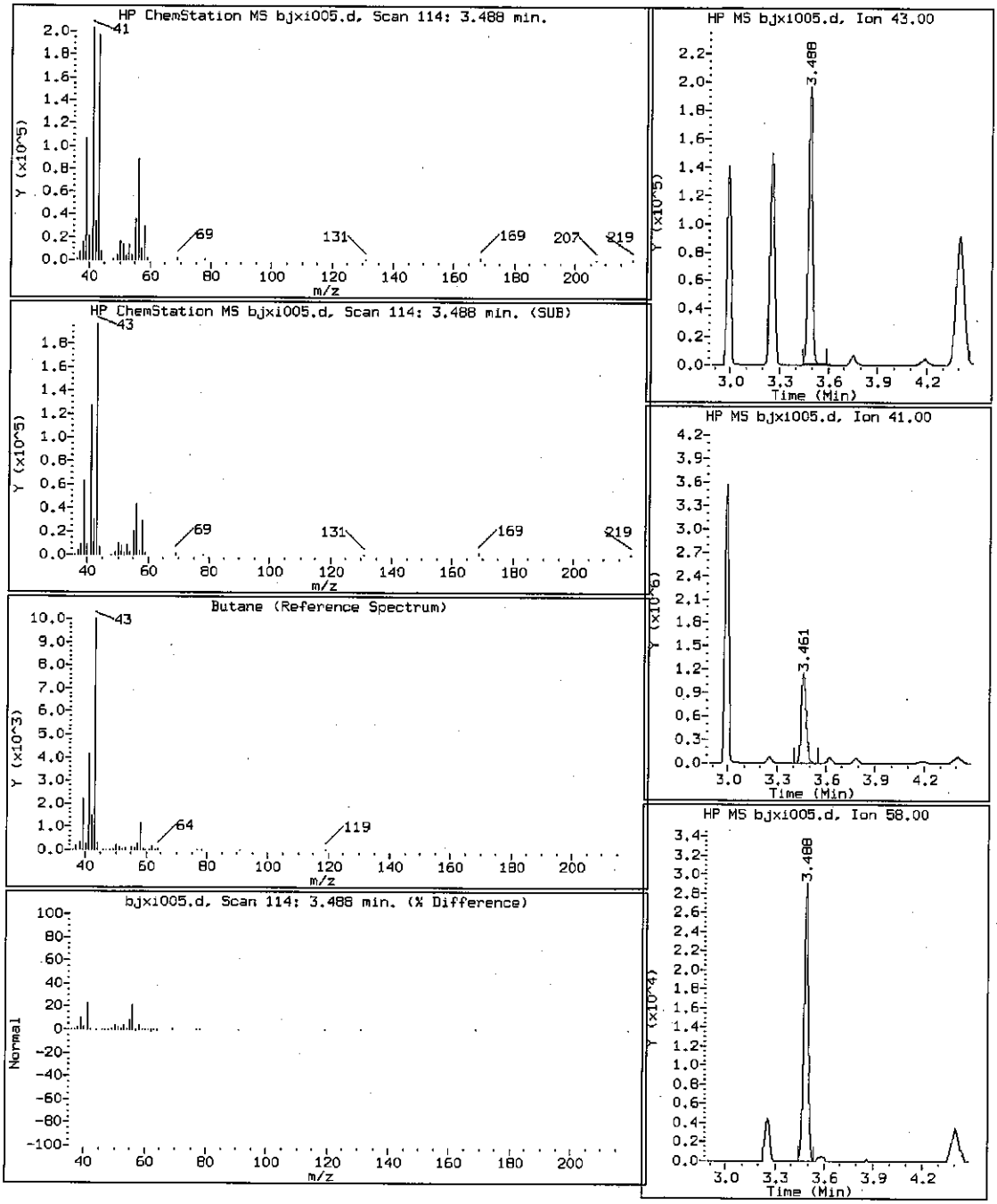
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

6 Butane



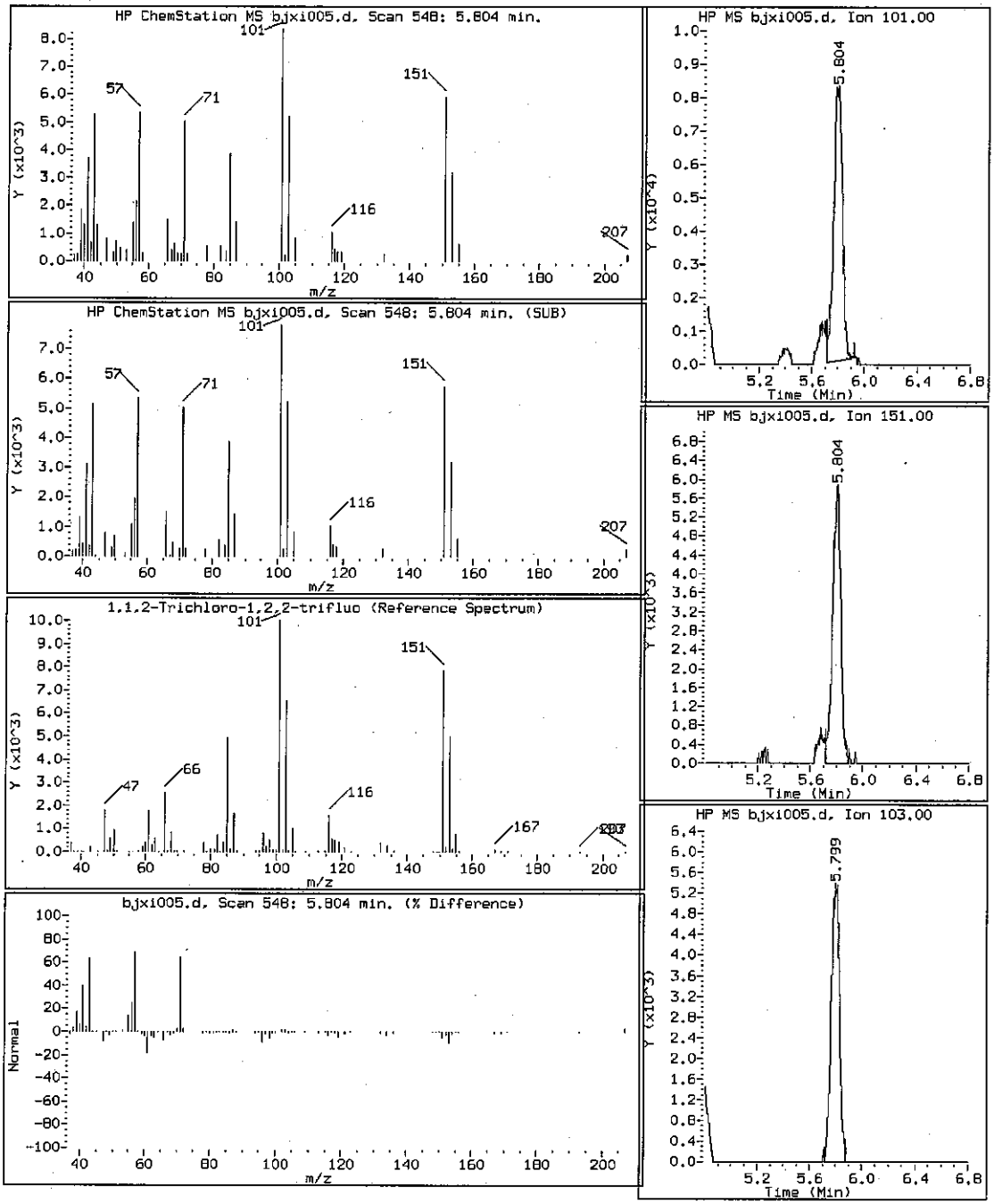
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

17 1,1,2-Trichloro-1,2,2-trifluo



Data File: bjxi005.d

Lab Sample ID: 200-3885-1

Date: 25-FEB-2011 12:46

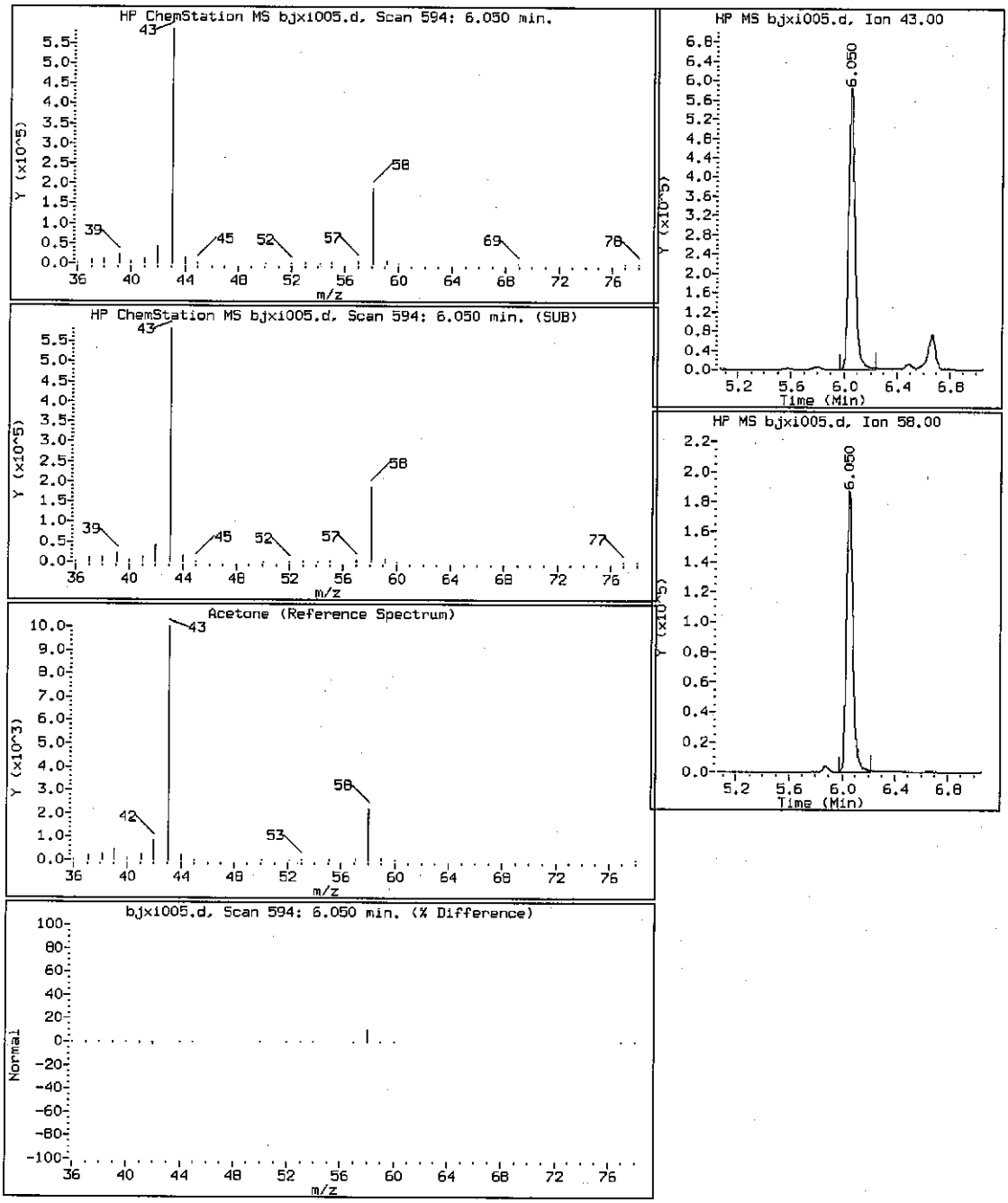
Client ID: SCA-021511-01

Instrument: B.i

Sample Info: 200-3885-A-1

Operator: pad

20 Acetone



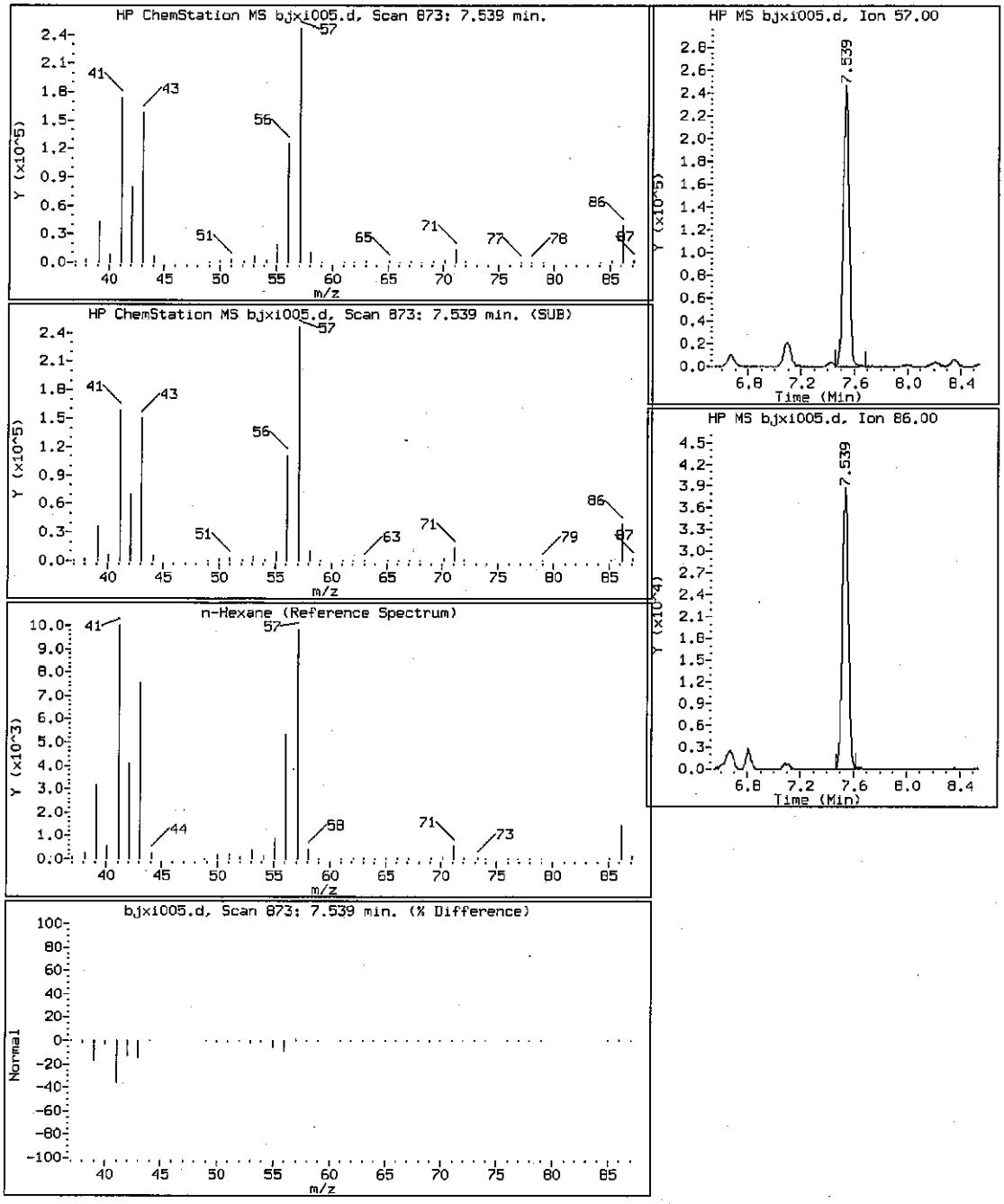
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

30 n-Hexane



Data File: bjxi005.d

Lab Sample ID: 200-3885-1

Date: 25-FEB-2011 12:46

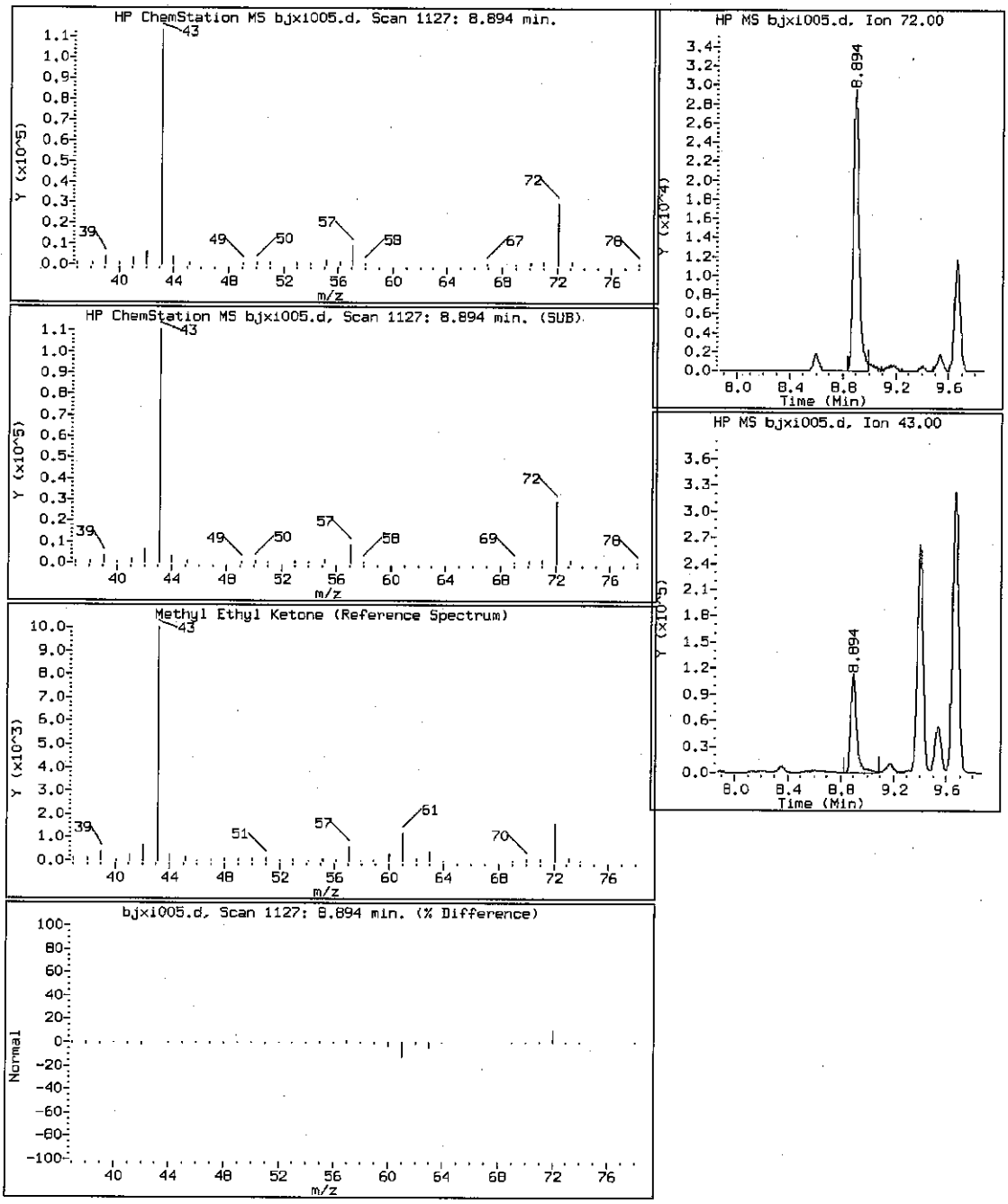
Client ID: SCA-021511-01

Instrument: B.i

Sample Info: 200-3885-A-1

Operator: pad

36 Methyl Ethyl Ketone



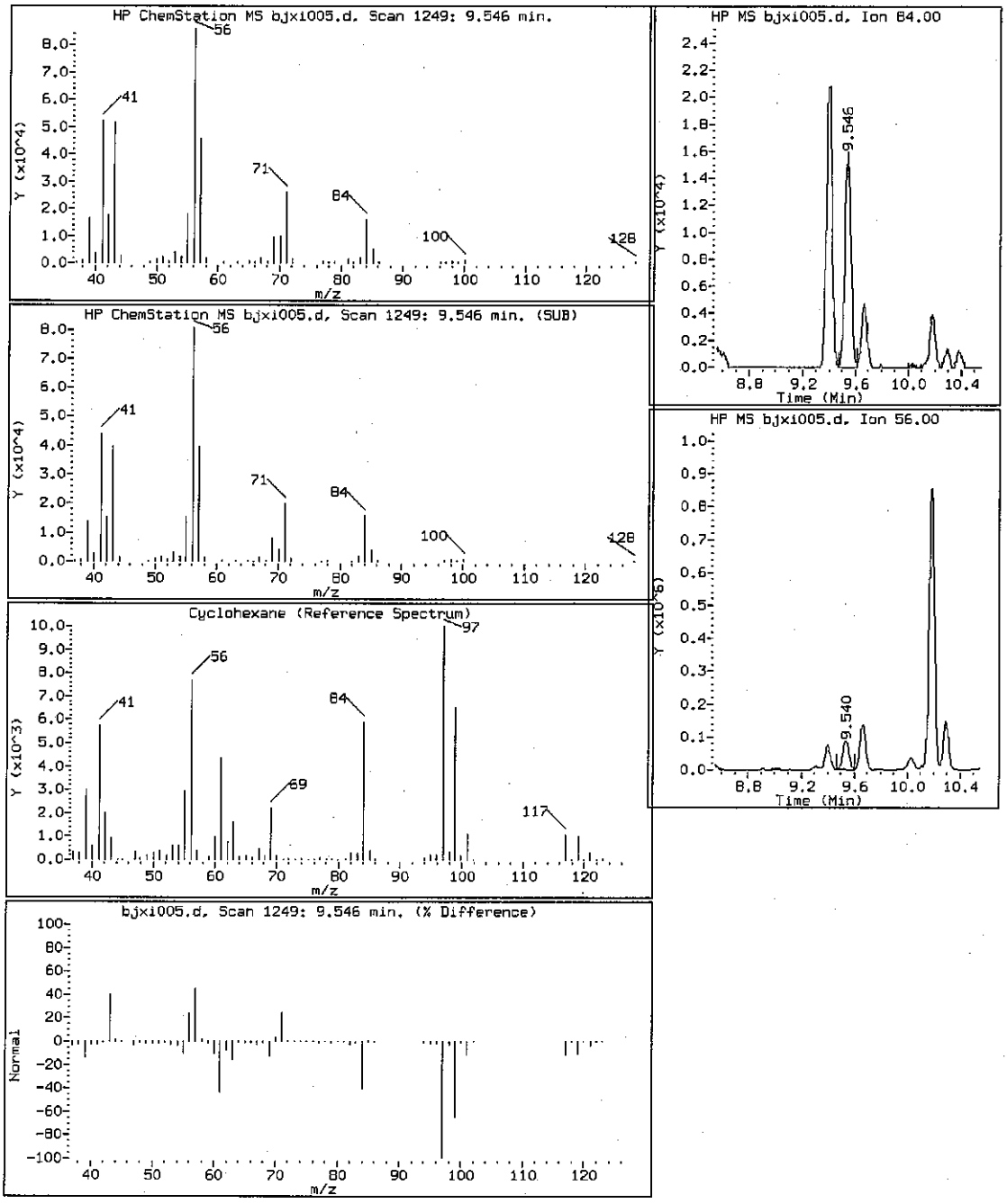
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

40 Cyclohexane



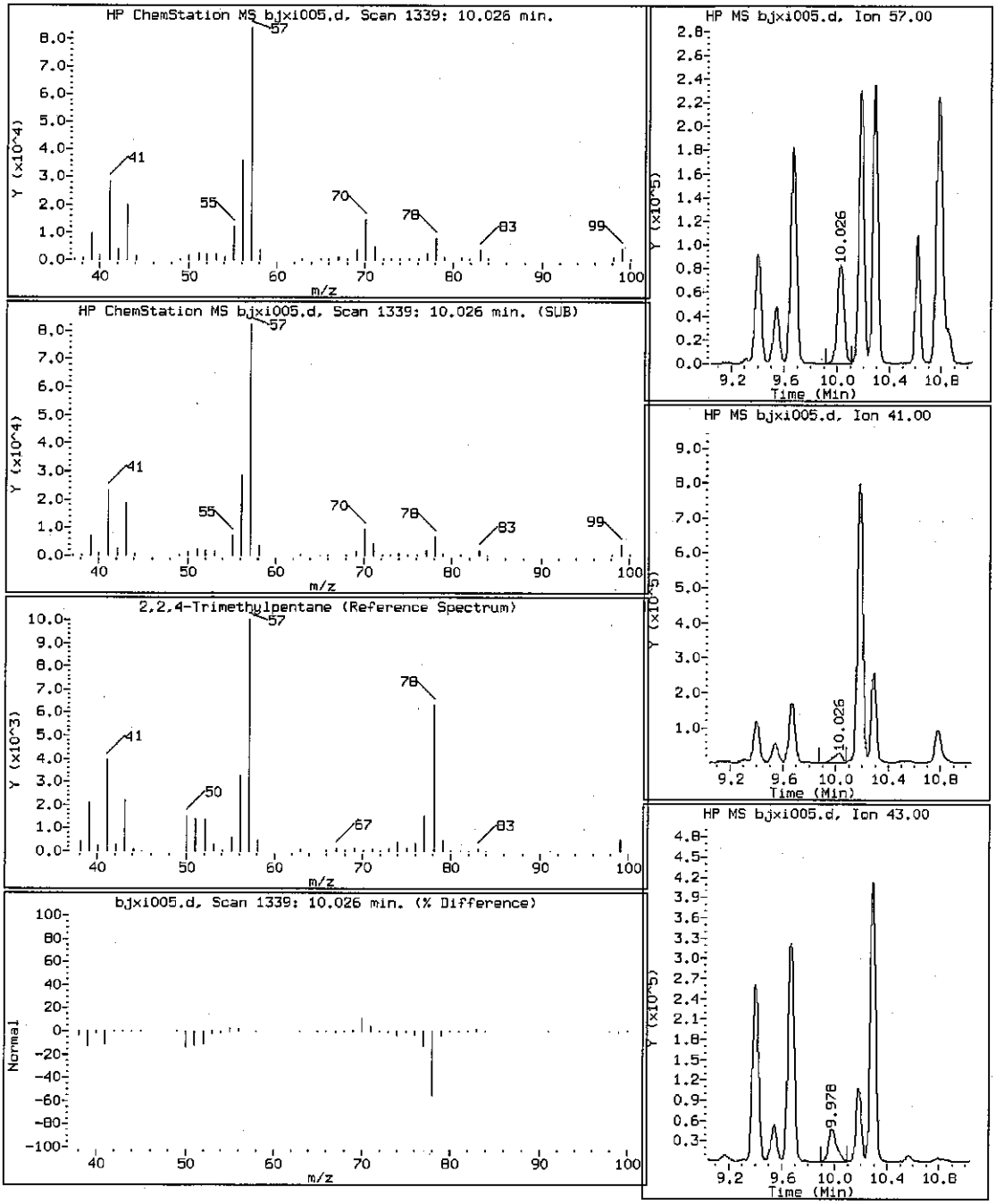
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

43 2,2,4-Trimethylpentane



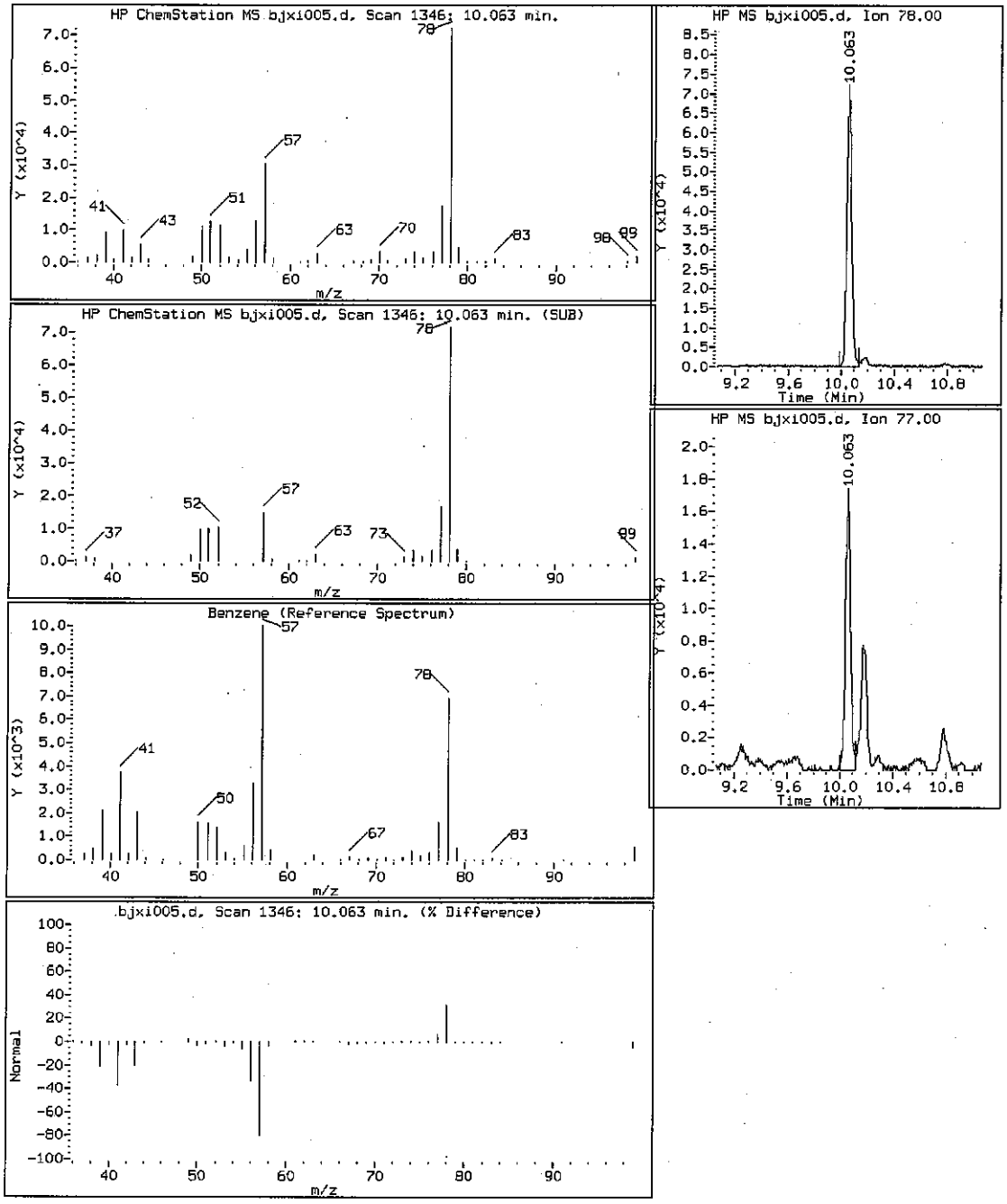
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

44 Benzene



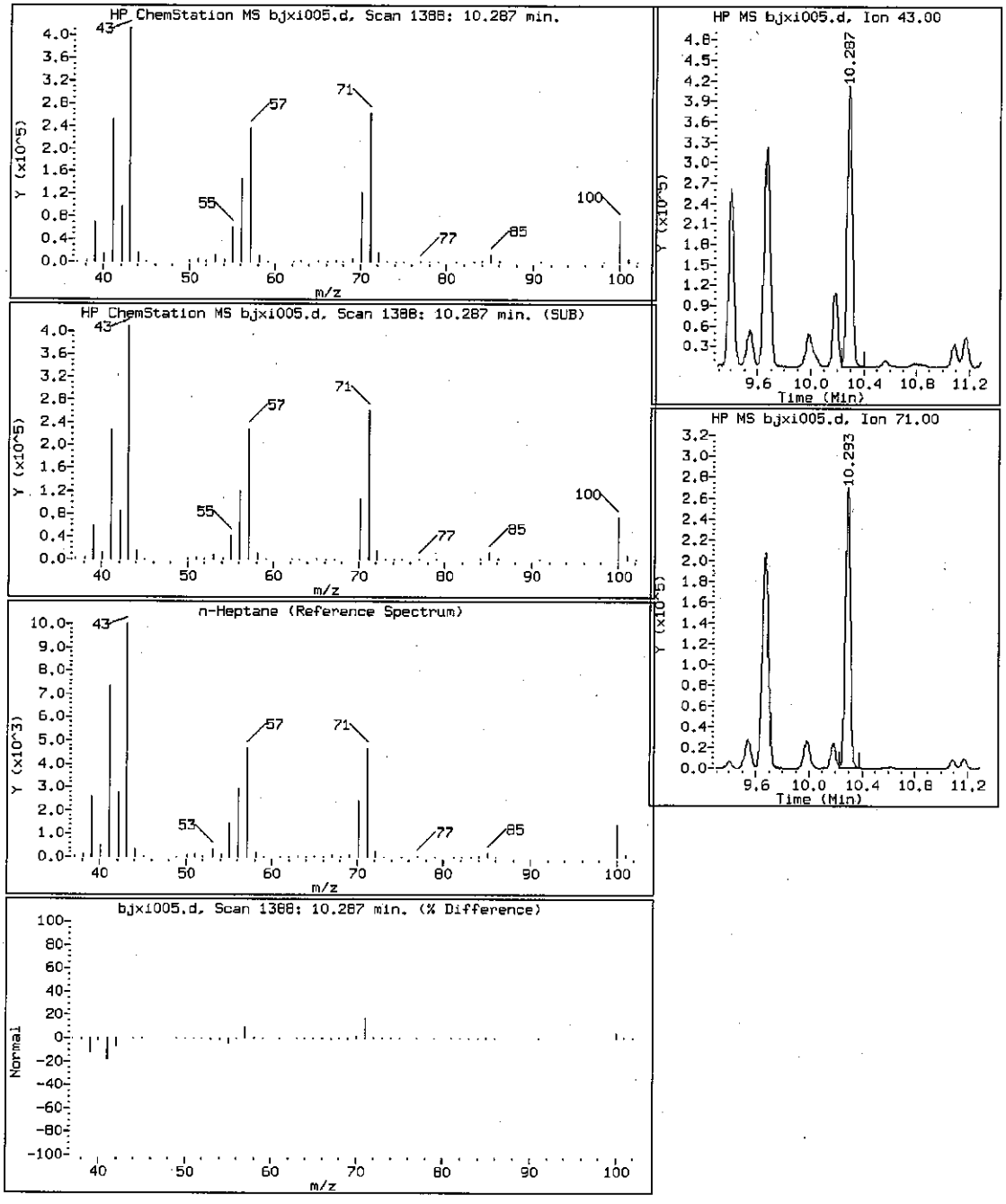
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

46 n-Heptane



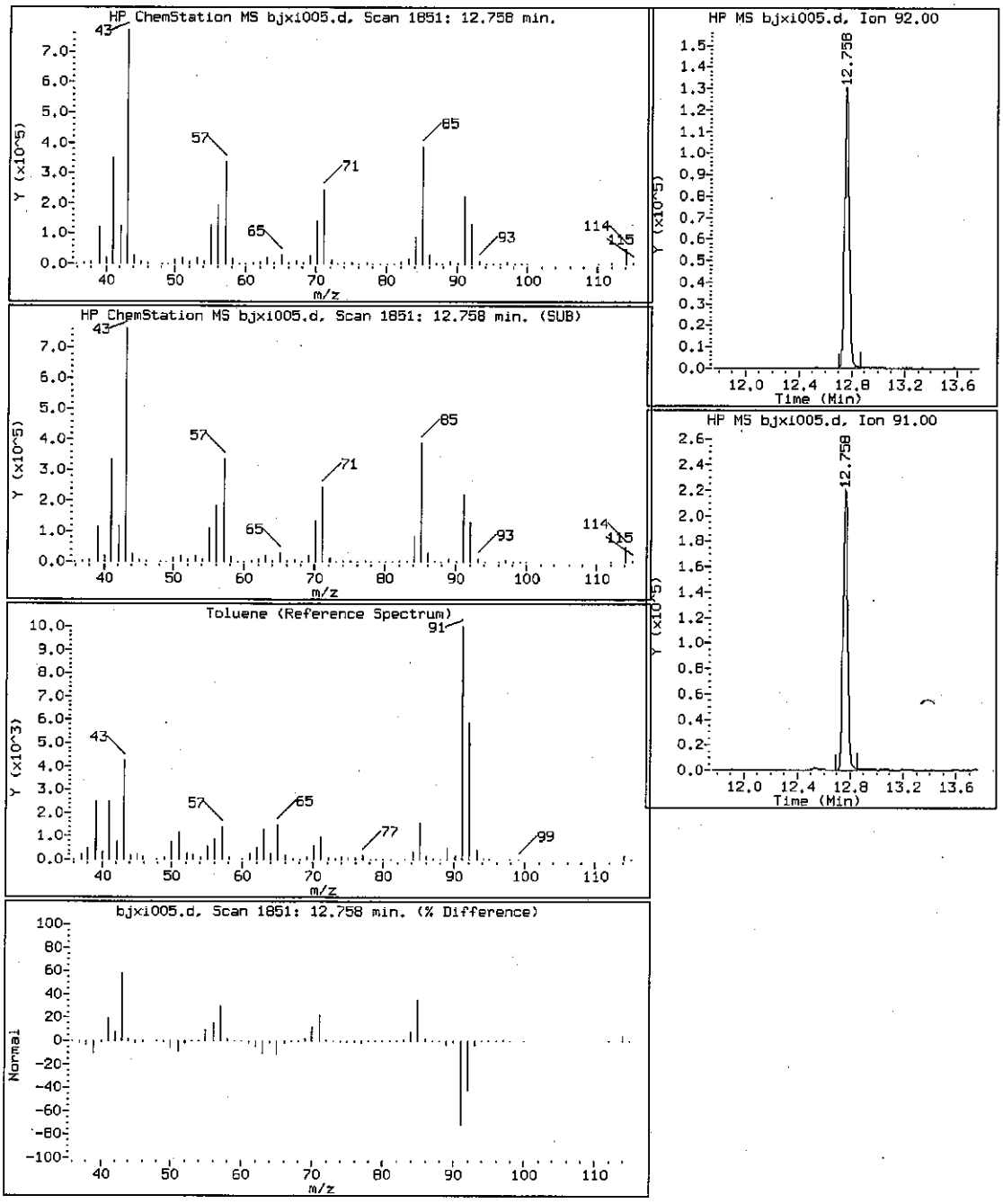
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

58 Toluene



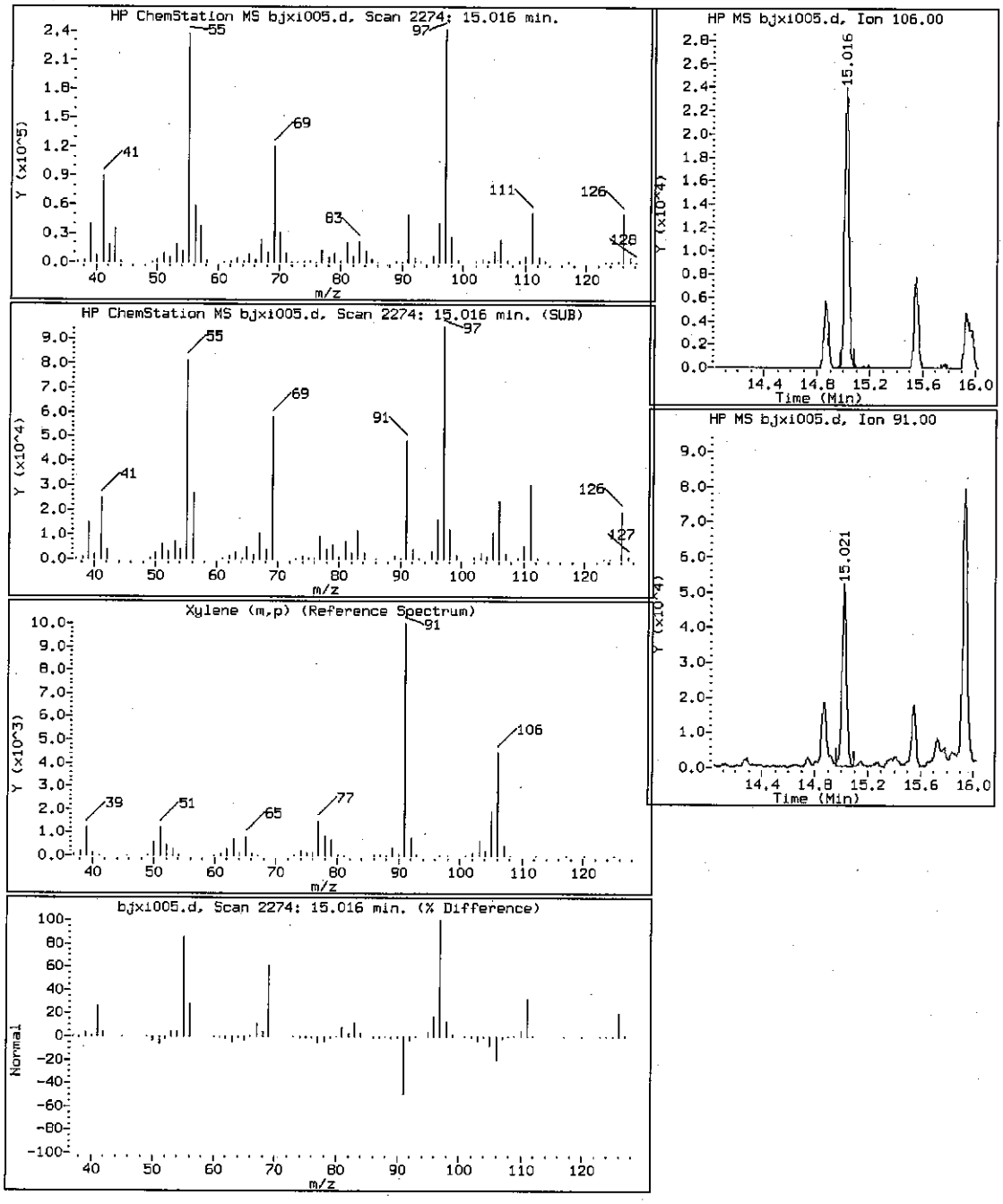
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

69 Xylene (m,p)



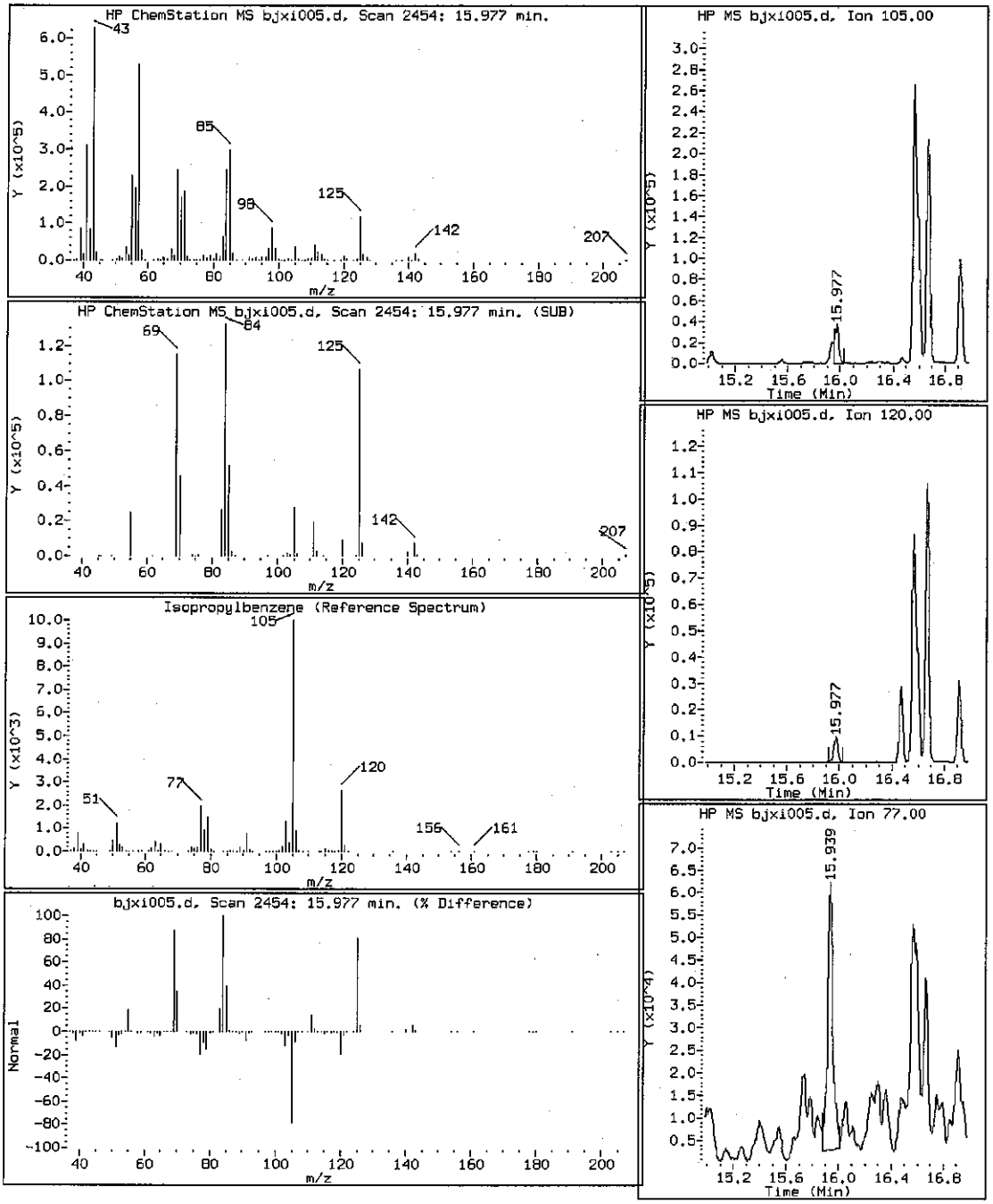
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

74 Isopropylbenzene



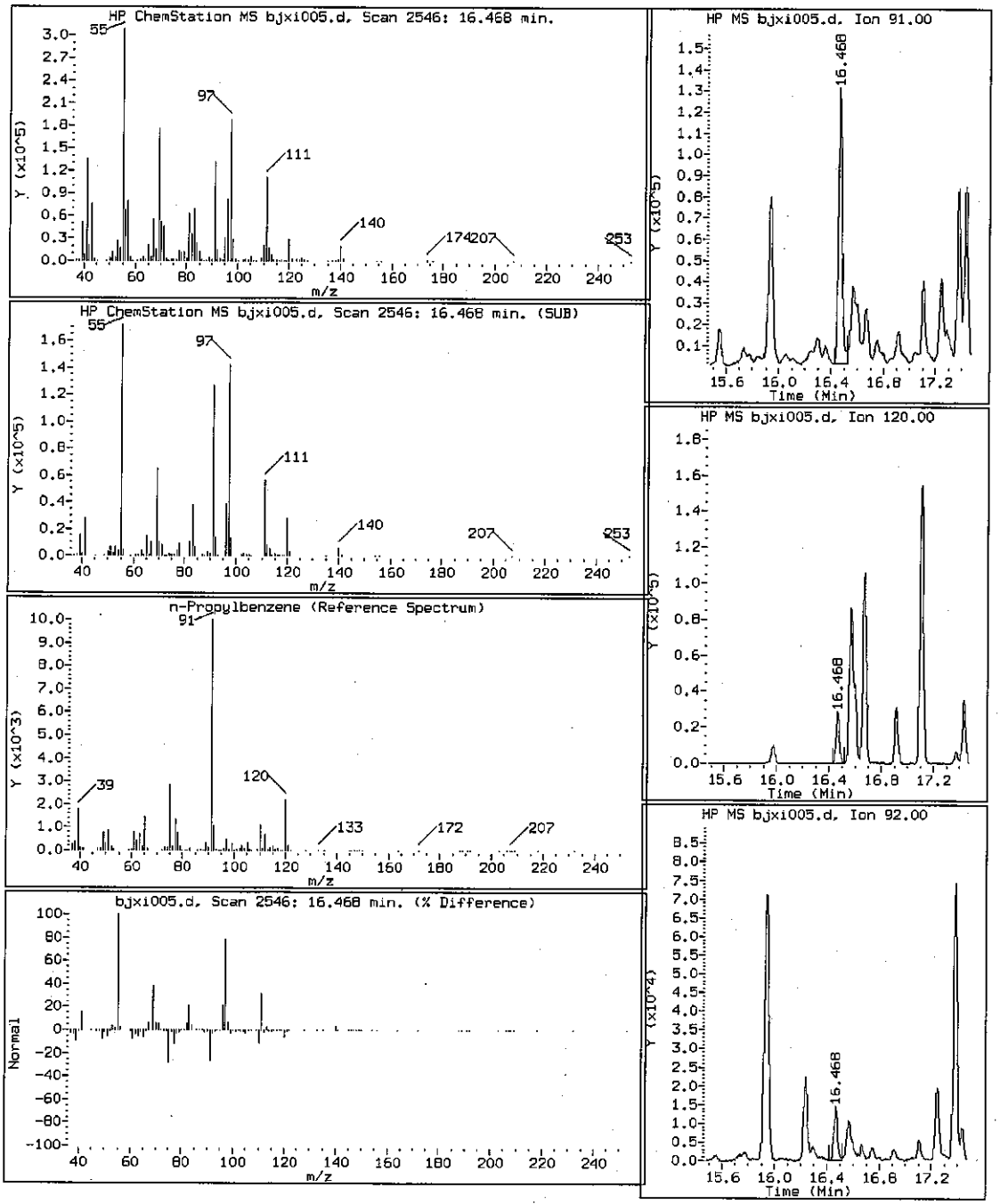
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

76 n-Propylbenzene



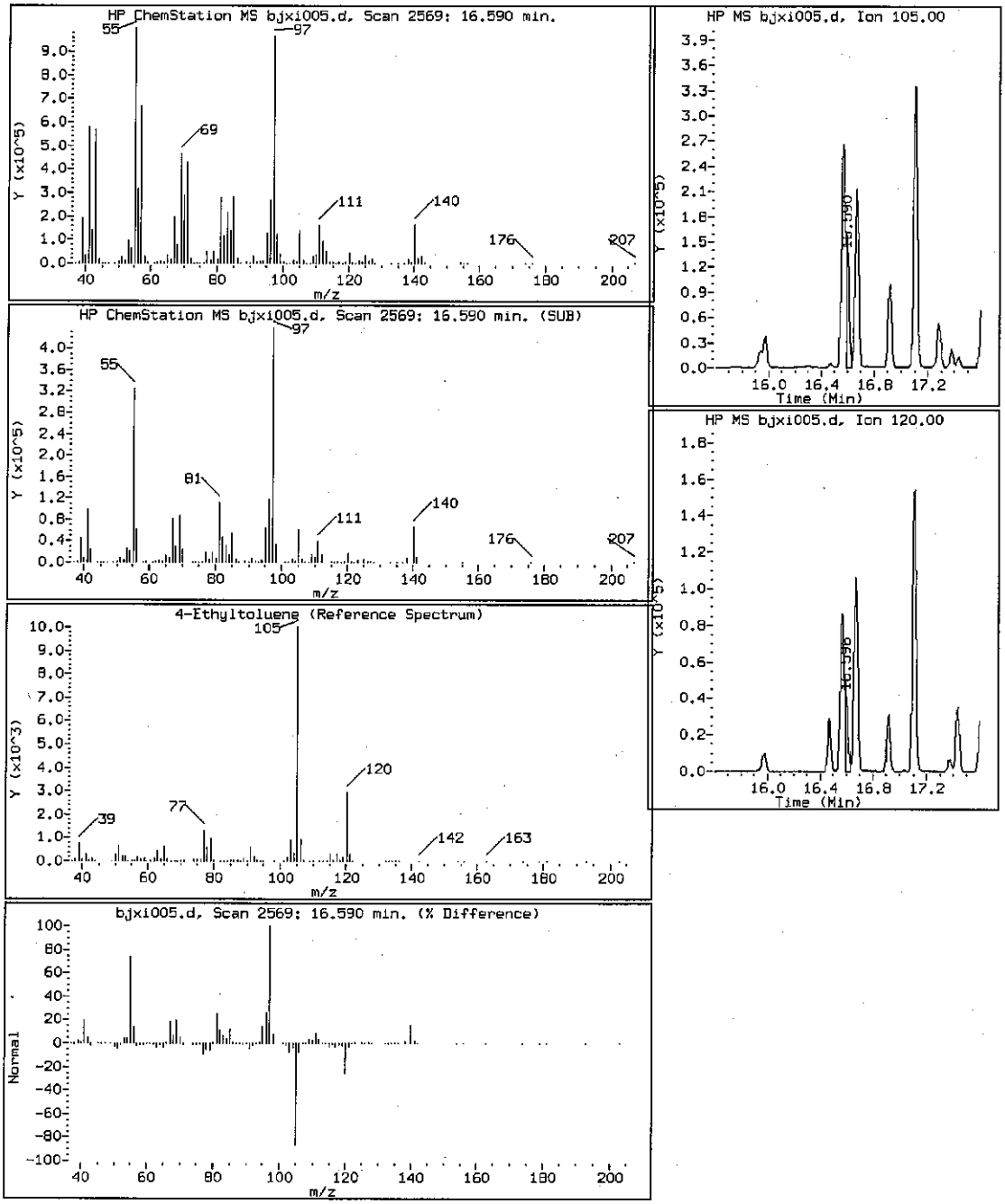
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

79 4-Ethyltoluene



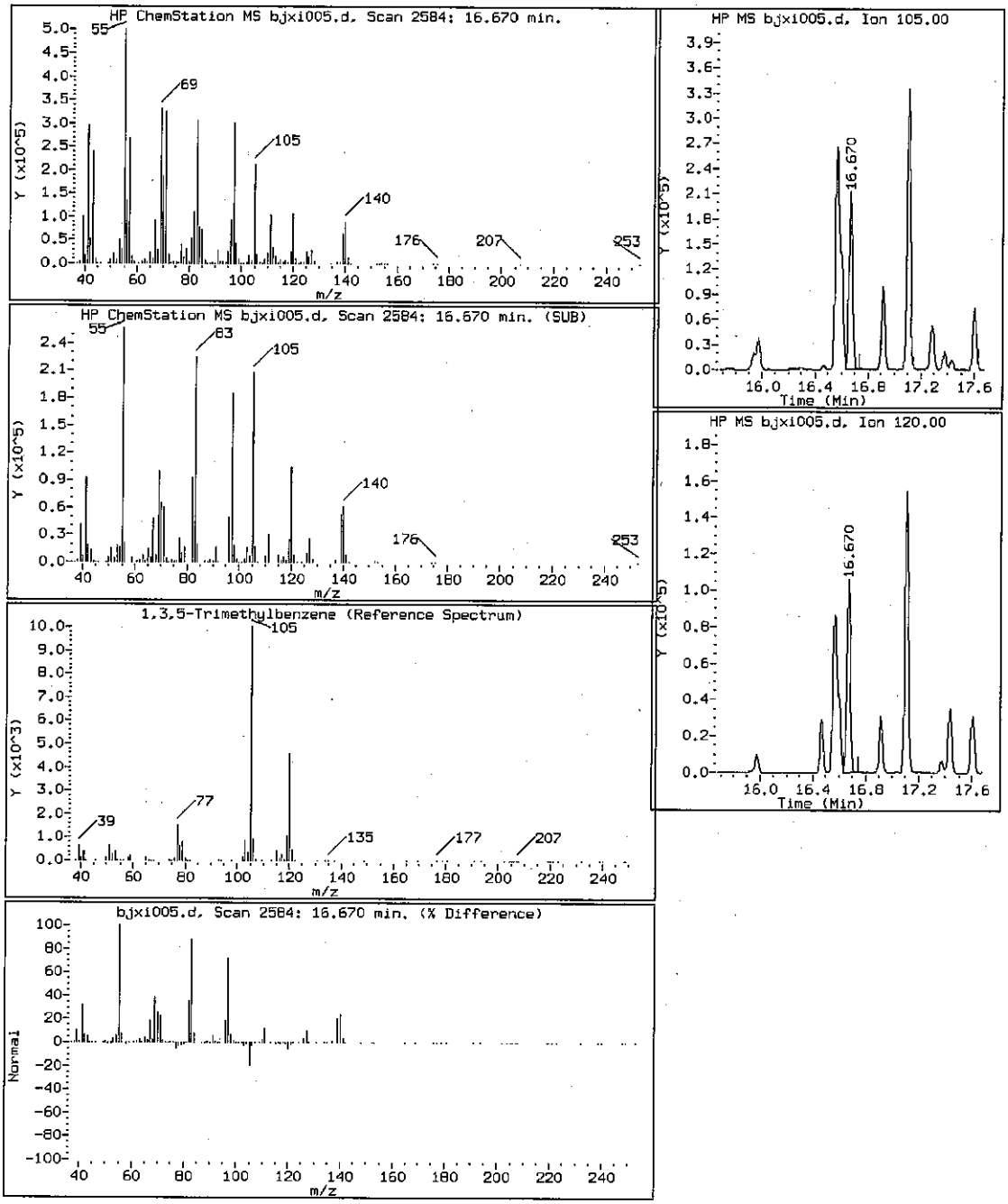
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

81 1,3,5-Trimethylbenzene



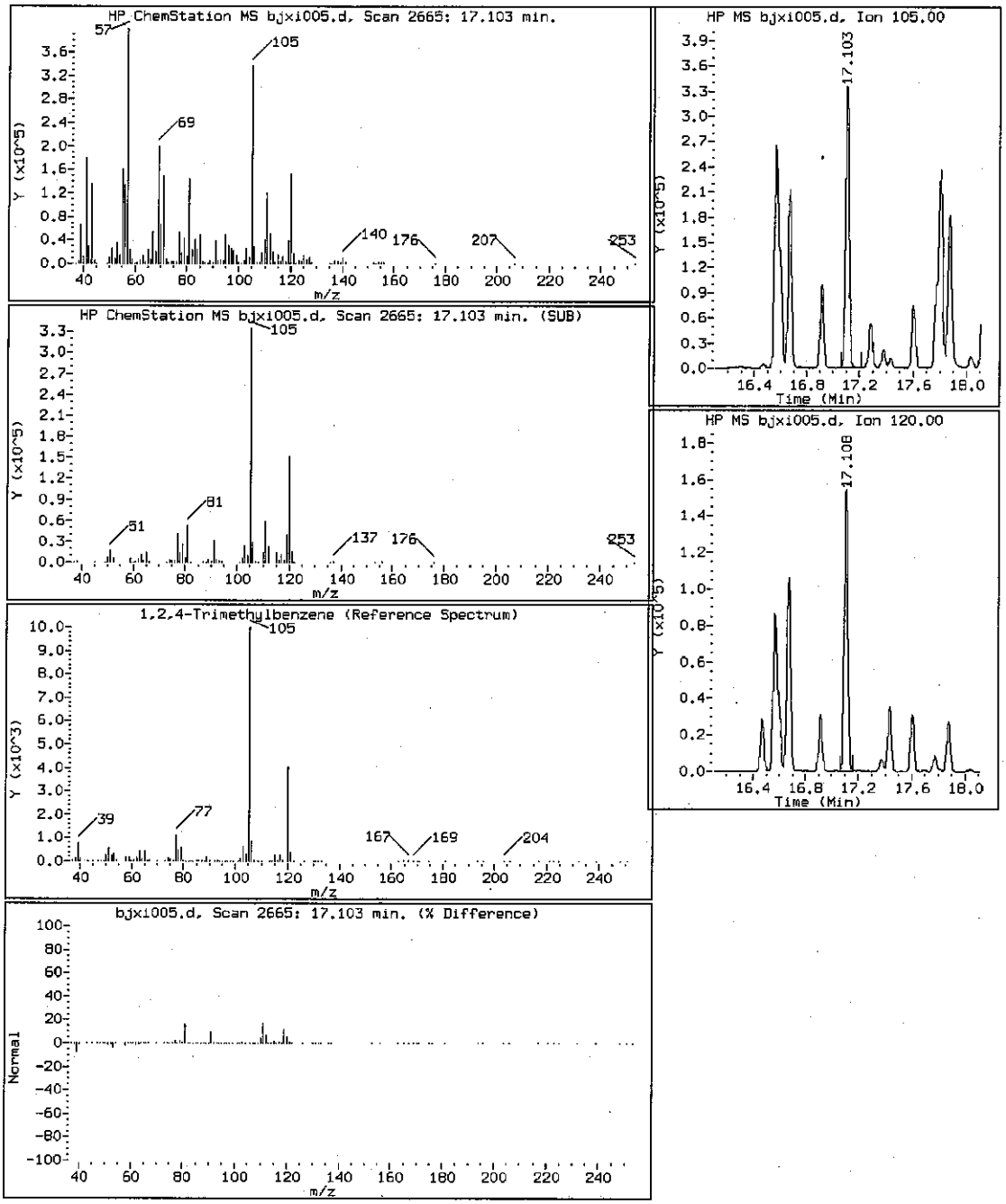
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

84 1,2,4-Trimethylbenzene



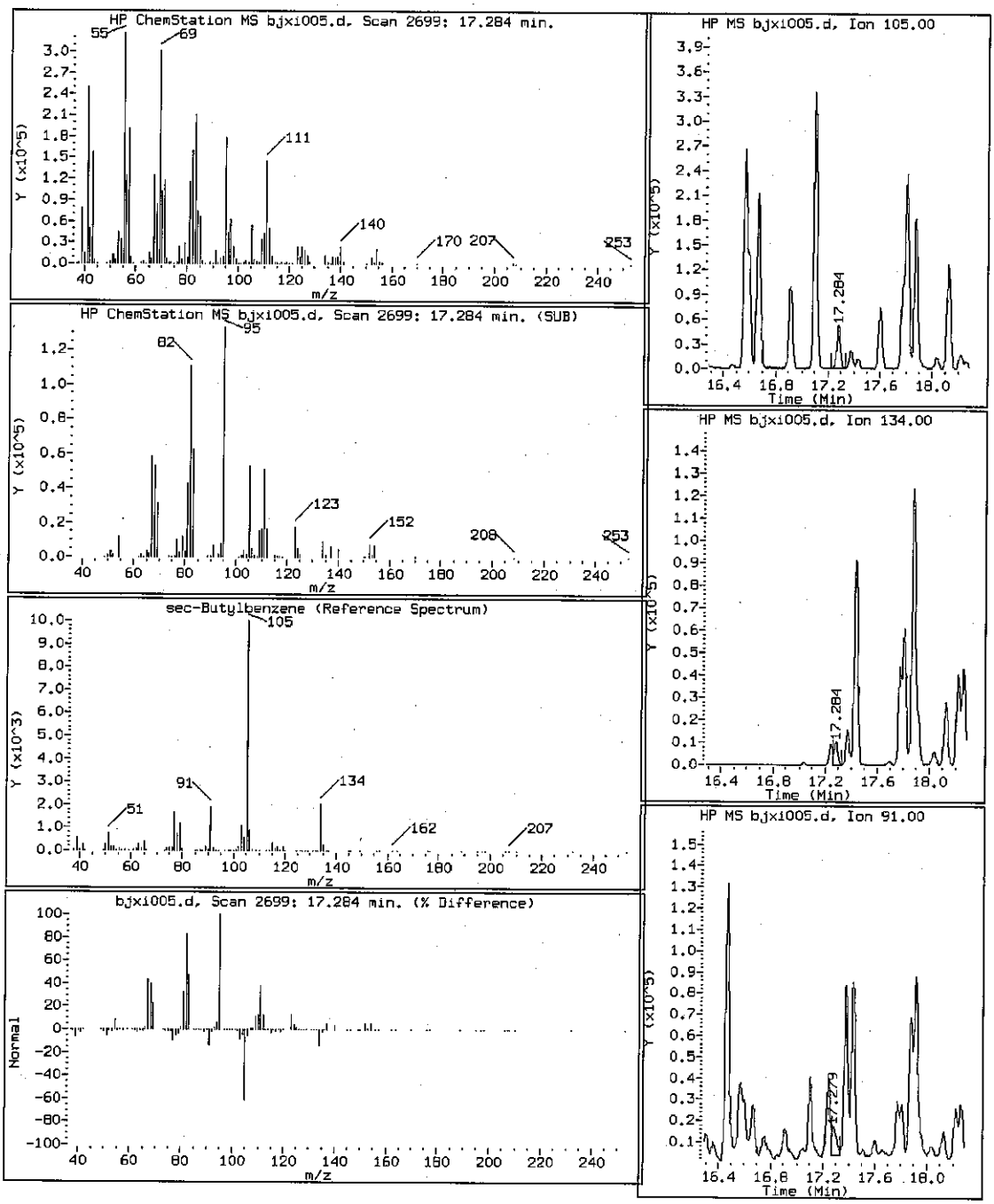
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

85 sec-Butylbenzene



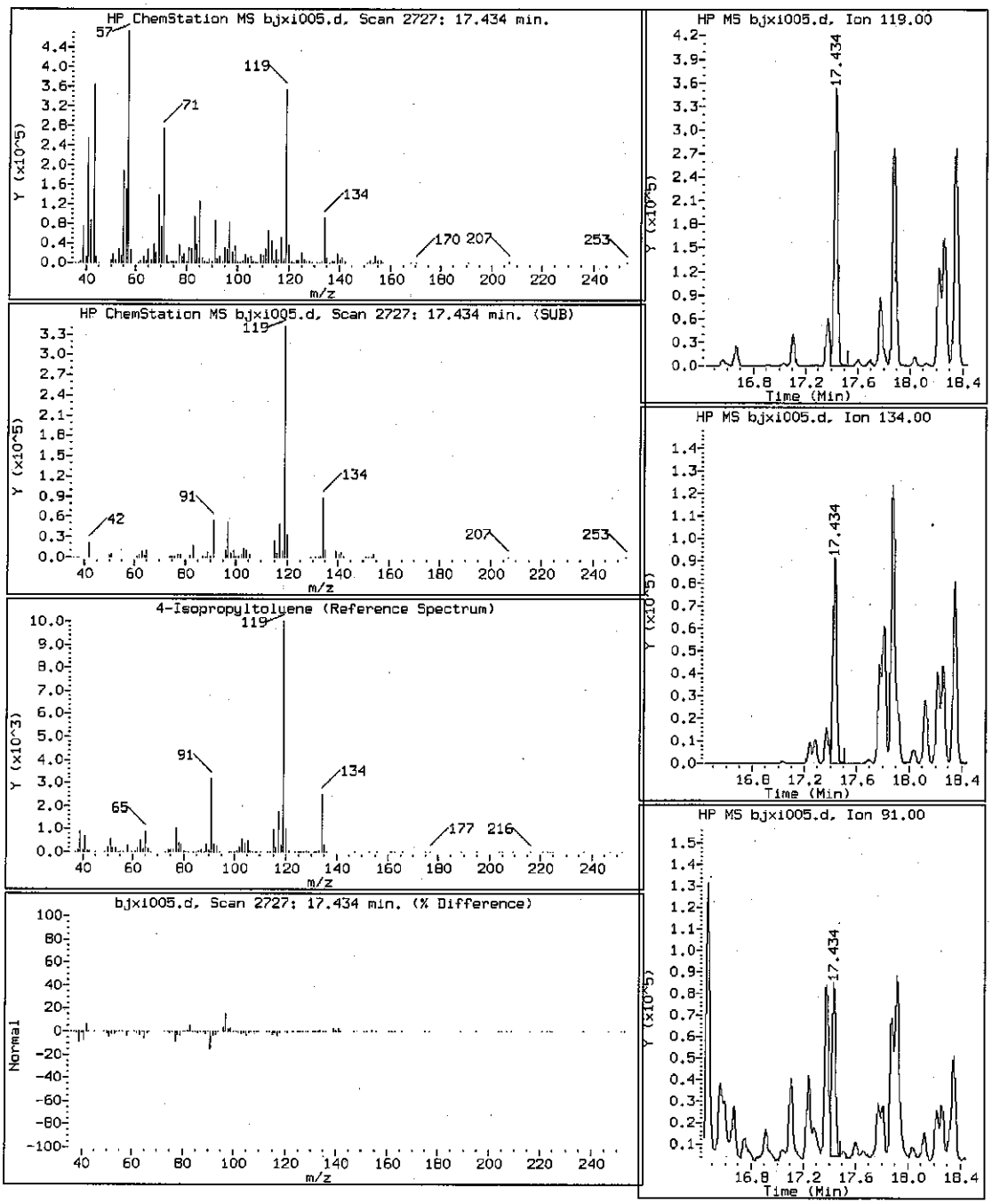
Data File: bjxi005.d

Lab Sample ID: 200-3885-1 Date: 25-FEB-2011 12:46

Client ID: SCA-021511-01 Instrument: B.i

Sample Info: 200-3885-A-1 Operator: pad

86 4-Isopropyltoluene



Manual Integration Report

Data File: bjxi005.d
Lab Sample ID: 200-3885-1
Inj. Date and Time: 25-FEB-2011 12:46
Instrument ID: B.i
Client ID: SCA-021511-01
Compound: 79 4-Ethyltoluene
CAS #: 622-96-8
Report Date: 02/27/2011

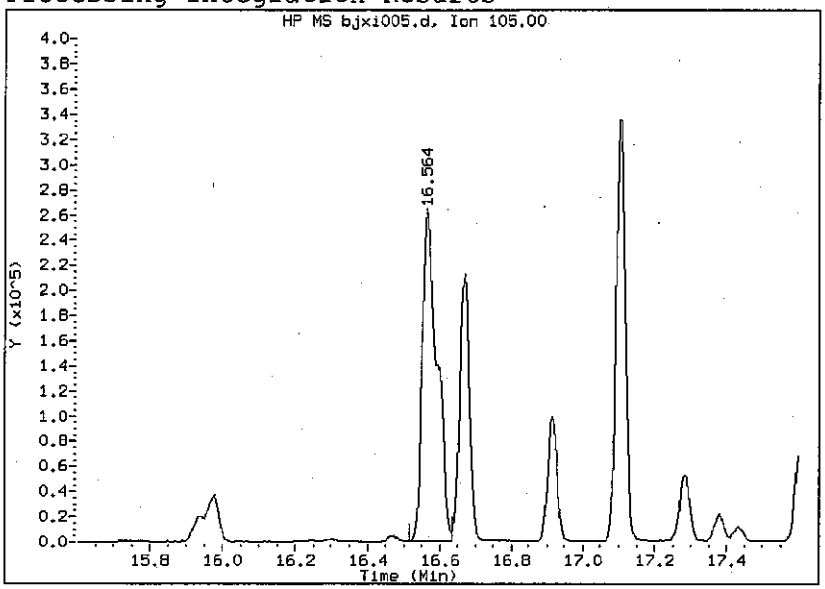
Processing Integration Results

RT: 16.56

Response: 743231

Amount: 1.86

Conc: 28.68



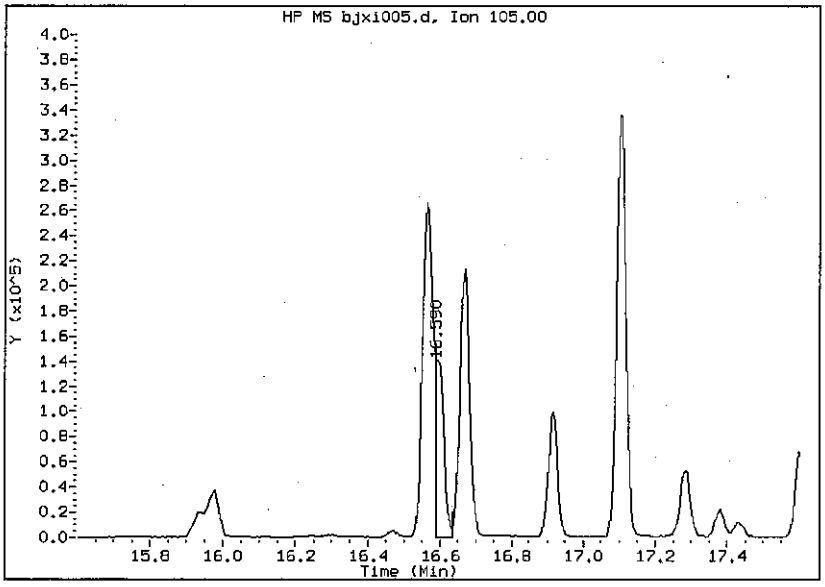
Manual Integration Results

RT: 16.59

Response: 216148

Amount: 0.541599

Conc: 8.34



File Uploaded By: klp
Manual Integration Reason: Baseline event

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-02 Lab Sample ID: 200-3885-2

Matrix: Air Lab File ID: bjxi006.d

Analysis Method: TO-15 Date Collected: 02/15/2011 13:35

Sample wt/vol: 200(mL) Date Analyzed: 02/25/2011 13:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.012
75-45-6	Freon 22	86.47	0.50	U	0.50	0.034
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.012
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.021
106-97-8	n-Butane	58.12	0.98		0.50	0.085
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.025
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.027
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.014
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.10
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.050
75-69-4	Trichlorofluoromethane	137.37	0.21		0.20	0.050
76-13-1	Freon TF	187.38	0.20	U	0.20	0.050
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.015
67-64-1	Acetone	58.08	8.6		5.0	0.99
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.043
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.050
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.029
75-09-2	Methylene Chloride	84.93	4.1		0.50	0.030
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.10
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.013
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.050
110-54-3	n-Hexane	86.17	0.38		0.20	0.023
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.013
78-93-3	Methyl Ethyl Ketone	72.11	0.77		0.50	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.050
540-59-0	1,2-Dichloroethene, Total	96.94	0.20	U	0.20	0.10
67-66-3	Chloroform	119.38	0.24		0.20	0.050
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	0.10
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.050
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.012
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.050
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	U	0.20	0.013
71-43-2	Benzene	78.11	0.45		0.20	0.050
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.015
142-82-5	n-Heptane	100.21	0.33		0.20	0.027

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-02 | Lab Sample ID: 200-3885-2

Matrix: Air | Lab File ID: bjxi006.d

Analysis Method: TO-15 | Date Collected: 02/15/2011 13:35

Sample wt/vol: 200(mL) | Date Analyzed: 02/25/2011 13:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 14275 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.014
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.10
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.016
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.035
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.050
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.050
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.064
108-88-3	Toluene	92.14	1.7		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.064
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.050
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.017
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.028
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.050
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.012
108-90-7	Chlorobenzene	112.30	0.20	U	0.20	0.050
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.014
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.023
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.050
1330-20-7	Xylene (total)	106.17	0.58		0.20	0.15
100-42-5	Styrene	104.15	0.20	U	0.20	0.050
75-25-2	Bromoform	252.75	0.20	U	0.20	0.050
98-82-8	Cumene	120.19	0.20	U	0.20	0.050
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.050
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.064
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.064
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.064
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.064
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.050
95-63-6	1,2,4-Trimethylbenzene	120.20	0.26		0.20	0.064
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.022
99-87-6	4-Isopropyltoluene	134.22	0.33		0.20	0.013
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.018
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.021
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.022
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.064

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-02 Lab Sample ID: 200-3885-2

Matrix: Air Lab File ID: bjxi006.d

Analysis Method: TO-15 Date Collected: 02/15/2011 13:35

Sample wt/vol: 200(mL) Date Analyzed: 02/25/2011 13:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.017
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.032
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.022
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.041

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-02 Lab Sample ID: 200-3885-2

Matrix: Air Lab File ID: bjxi006.d

Analysis Method: TO-15 Date Collected: 02/15/2011 13:35

Sample wt/vol: 200(mL) Date Analyzed: 02/25/2011 13:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	0.059
75-45-6	Freon 22	86.47	1.8	U	1.8	0.12
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.084
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.043
106-97-8	n-Butane	58.12	2.3		1.2	0.20
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.064
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.060
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.054
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.26
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.22
75-69-4	Trichlorofluoromethane	137.37	1.2		1.1	0.28
76-13-1	Freon TF	187.38	1.5	U	1.5	0.38
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.059
67-64-1	Acetone	58.08	20		12	2.4
67-63-0	Isopropyl alcohol	60.10	12	U	12	0.11
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.16
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.091
75-09-2	Methylene Chloride	84.93	14		1.7	0.10
75-65-0	tert-Butyl alcohol	74.12	15	U	15	0.30
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.047
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.20
110-54-3	n-Hexane	86.17	1.3		0.70	0.081
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.053
78-93-3	Methyl Ethyl Ketone	72.11	2.3		1.5	0.19
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.79	U	0.79	0.40
67-66-3	Chloroform	119.38	1.2		0.98	0.24
109-99-9	Tetrahydrofuran	72.11	15	U	15	0.29
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.27
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.041
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	0.31
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	U	0.93	0.061
71-43-2	Benzene	78.11	1.4		0.64	0.16
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.061
142-82-5	n-Heptane	100.21	1.3		0.82	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-02 | Lab Sample ID: 200-3885-2

Matrix: Air | Lab File ID: bjxi006.d

Analysis Method: TO-15 | Date Collected: 02/15/2011 13:35

Sample wt/vol: 200(mL) | Date Analyzed: 02/25/2011 13:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 14275 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	1.1	U	1.1	0.075
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.41
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.074
123-91-1	1,4-Dioxane	88.11	18	U	18	0.13
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.34
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.23
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.26
108-88-3	Toluene	92.14	6.6		0.75	0.19
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.29
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.27
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.12
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.11
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.43
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.092
108-90-7	Chlorobenzene	112.30	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.061
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	0.10
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.22
1330-20-7	Xylene (total)	106.17	2.5		0.87	0.65
100-42-5	Styrene	104.15	0.85	U	0.85	0.21
75-25-2	Bromoform	252.75	2.1	U	2.1	0.52
98-82-8	Cumene	120.19	0.98	U	0.98	0.25
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.34
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.31
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.31
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.31
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.33
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.27
95-63-6	1,2,4-Trimethylbenzene	120.20	1.3		0.98	0.31
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.12
99-87-6	4-Isopropyltoluene	134.22	1.8		1.1	0.071
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.11
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.13
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.11
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.35

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-02 Lab Sample ID: 200-3885-2

Matrix: Air Lab File ID: bjxi006.d

Analysis Method: TO-15 Date Collected: 02/15/2011 13:35

Sample wt/vol: 200(mL) Date Analyzed: 02/25/2011 13:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.10
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.24
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.23
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.21

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-3885-2
Client Smp ID: SCA-021511-02
Inj Date : 25-FEB-2011 13:38
Operator : pad Inst ID: B.i
Smp Info : 200-3885-A-2
Misc Info : 200,1, all74
Comment :
Method : /chem/B.i/Bsvr.p/bjxito15.b/to15v5.m
Meth Date : 27-Feb-2011 09:51 klp Quant Type: ISTD
Cal Date : 09-FEB-2011 20:19 Cal File: bjx011.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	3.040	3.045	(0.330)	56064	0.47488	0.47(aH)
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	3.344	3.344	(0.363)	6372	0.22346	0.22(a)
6 Butane	43	3.488	3.488	(0.379)	47737	0.97731	0.98(Q)
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	3.568	3.579	(0.387)	3860	0.13695	0.14(a)
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	4.806	4.806	(0.522)	40749	0.20880	0.21
17 1,1,2-Trichloro-1,2,2-trifluo	101	5.799	5.804	(0.630)	25577	0.18575	0.19(a)
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.061	6.055	(0.658)	929166	8.59744	8.6

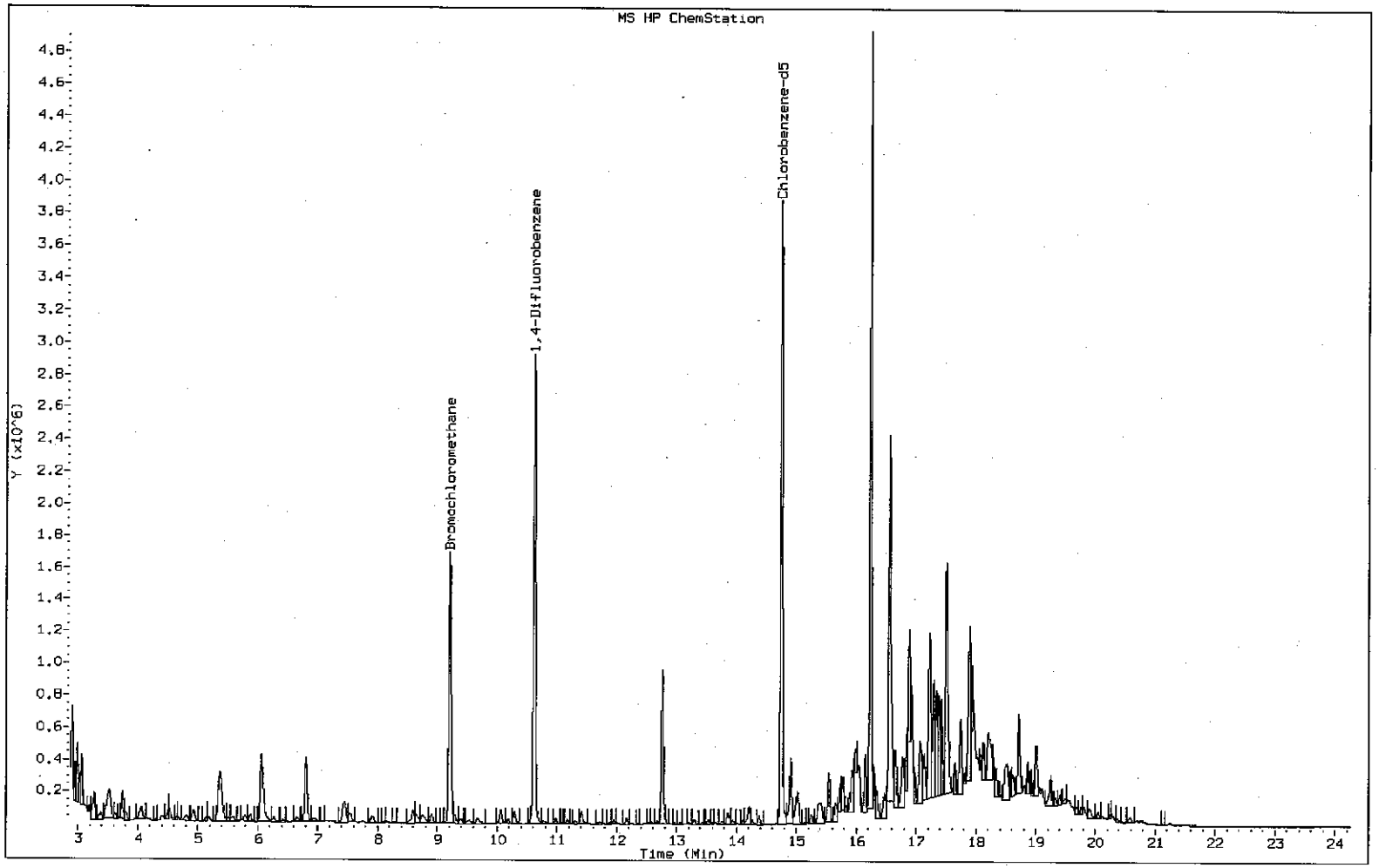
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	21 Carbon disulfide	76	6.274	6.279	(0.681)	50034	0.22558	0.23(a)
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.808	6.813	(0.739)	330085	4.06784	4.1
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.539	7.544	(0.819)	47924	0.37585	0.38
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	8.905	8.868	(0.967)	29337	0.77266	0.77(Q)
*	37 Bromochloromethane	128	9.209	9.215	(1.000)	621211	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	9.289	9.295	(1.009)	38988	0.24297	0.24
	40 Cyclohexane	84	9.546	9.551	(0.899)	5726	0.04939	0.049(a)
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	10.063	10.069	(0.948)	112476	0.44520	0.45
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	10.287	10.293	(0.969)	46752	0.32565	0.33
*	47 1,4-Difluorobenzene	114	10.618	10.624	(1.000)	3242559	10.0000	
	49 Trichloroethene	95	10.981	10.986	(1.034)	14188	0.13255	0.13(a)
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	12.764	12.764	(0.865)	310155	1.74178	1.7
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.532	13.532	(0.917)	11753	0.09396	0.094(a)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.749	14.754	(1.000)	2876559	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	14.866	14.872	(1.008)	55534	0.14228	0.14(a)
	69 Xylene (m,p)	106	15.021	15.027	(1.018)	68087	0.45259	0.45(a)
M	70 Xylenes, Total	106				86307	0.57870	0.58
	71 Xylene (o)	106	15.550	15.550	(1.054)	18220	0.12611	0.13(a)
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	16.596	16.601	(1.125)	20464	0.04622	0.046(aM)
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	16.665	16.676	(1.130)	40832	0.11252	0.11(a)
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	17.103	17.108	(1.160)	92911	0.25820	0.26
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	17.428	17.439	(1.182)	141832	0.33473	0.33
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	bjxi006.d	Date:	25-FEB-2011 13:38
Client ID:	SCA-021511-02	Instrument:	B.i
Operator:	pad	Inj Vol:	100.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-3885-A-2		
Lab Sample ID:	200-3885-2		



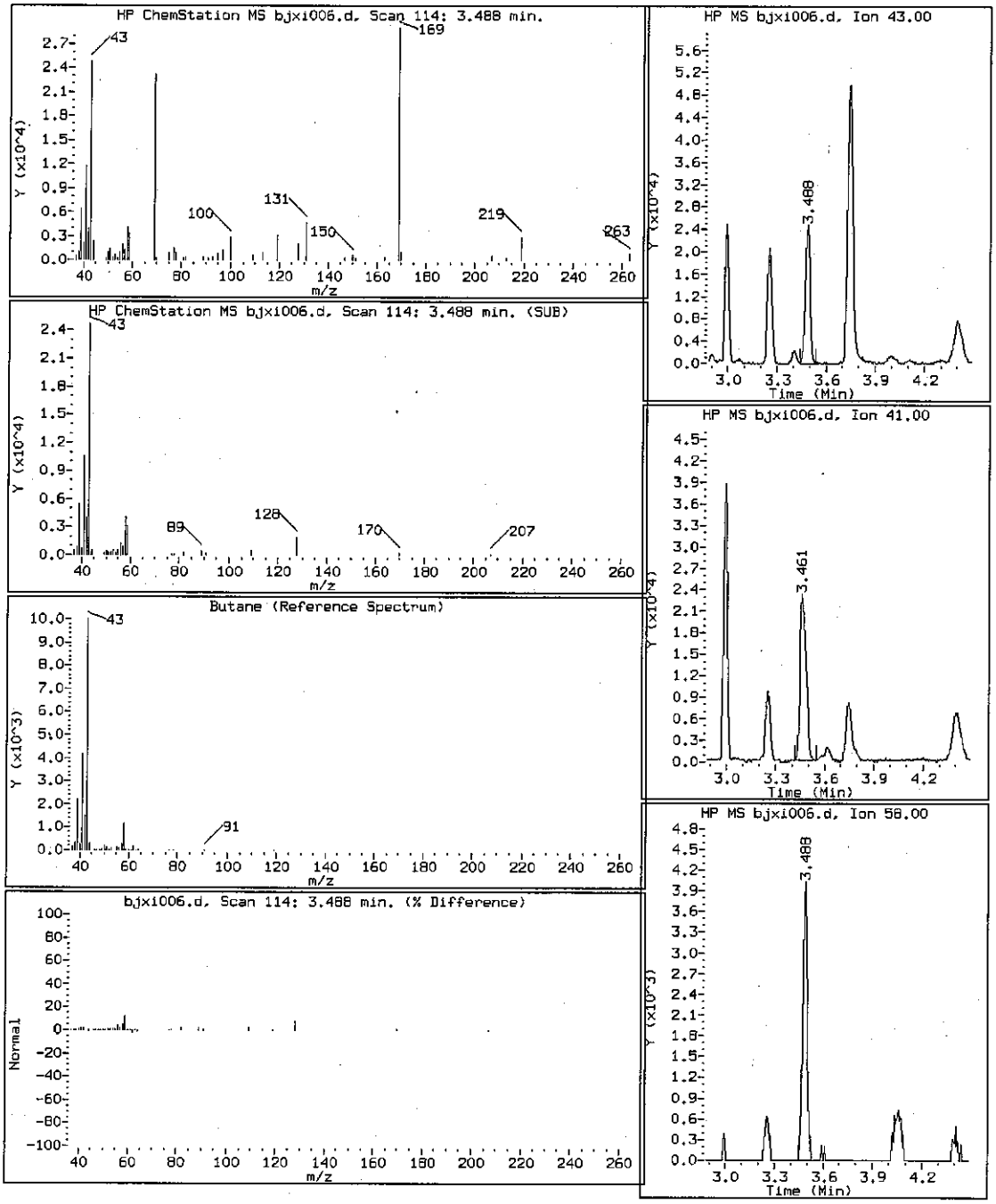
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

6 Butane



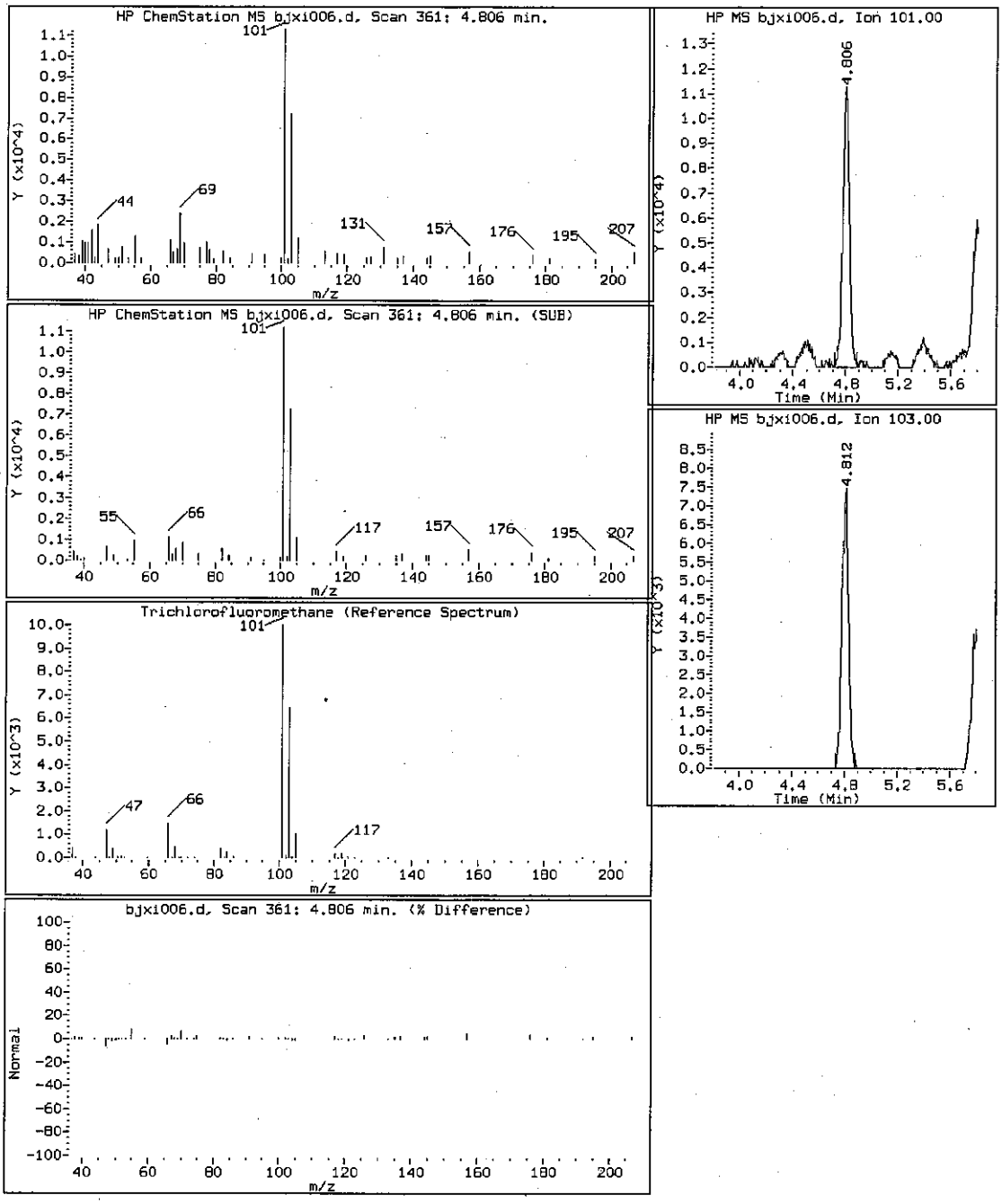
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

13 Trichlorofluoromethane



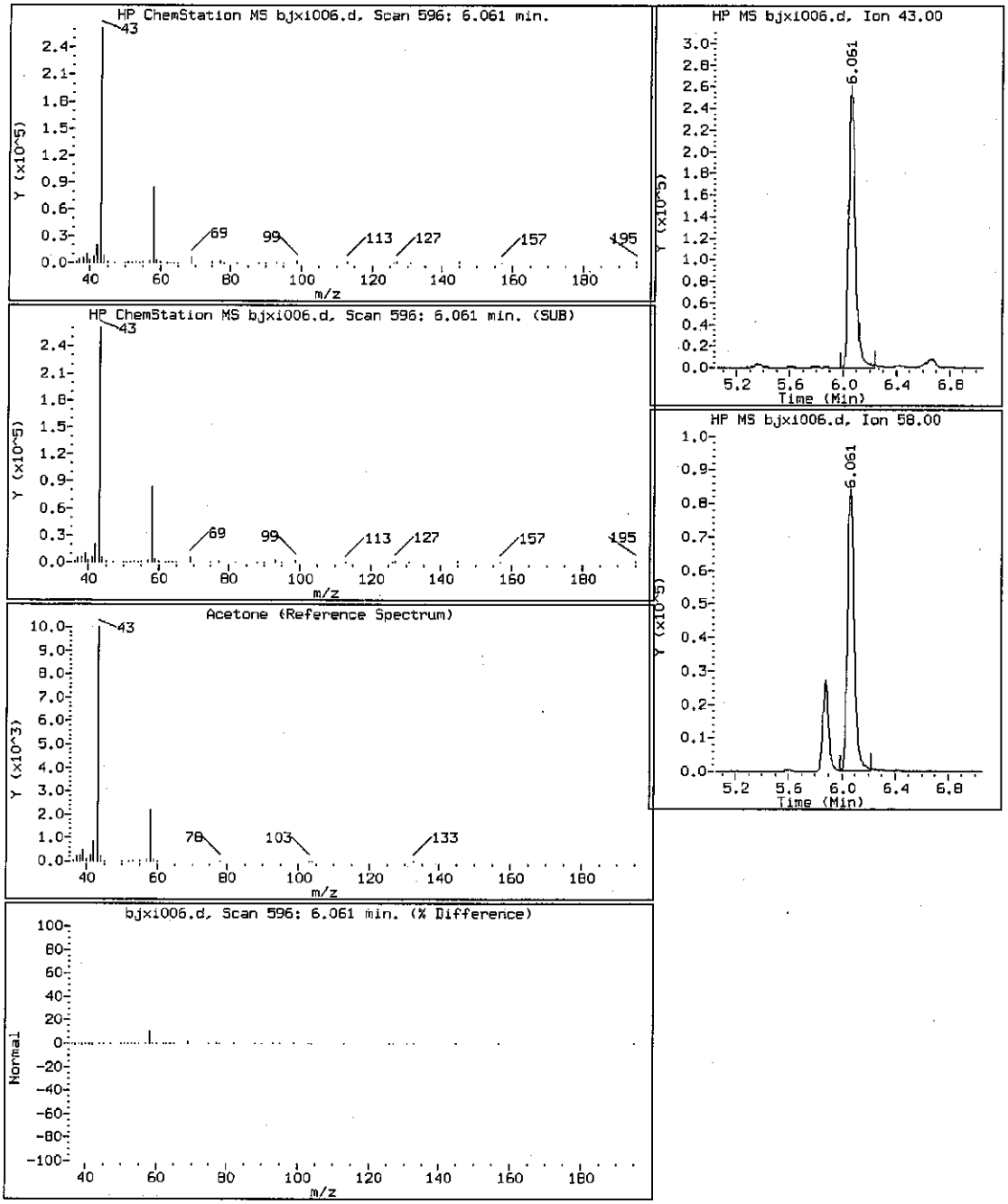
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

20 Acetone



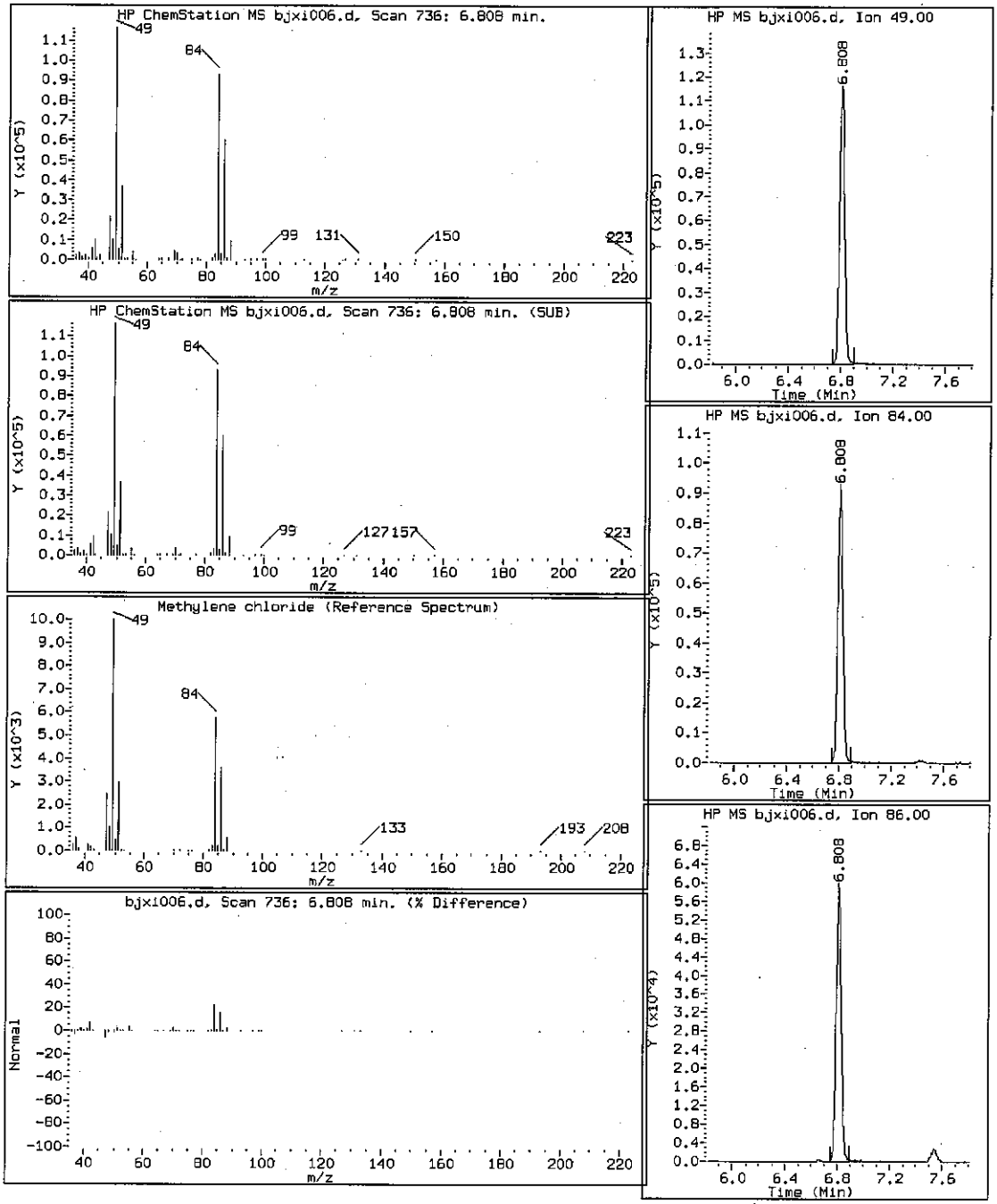
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

25 Methylene chloride



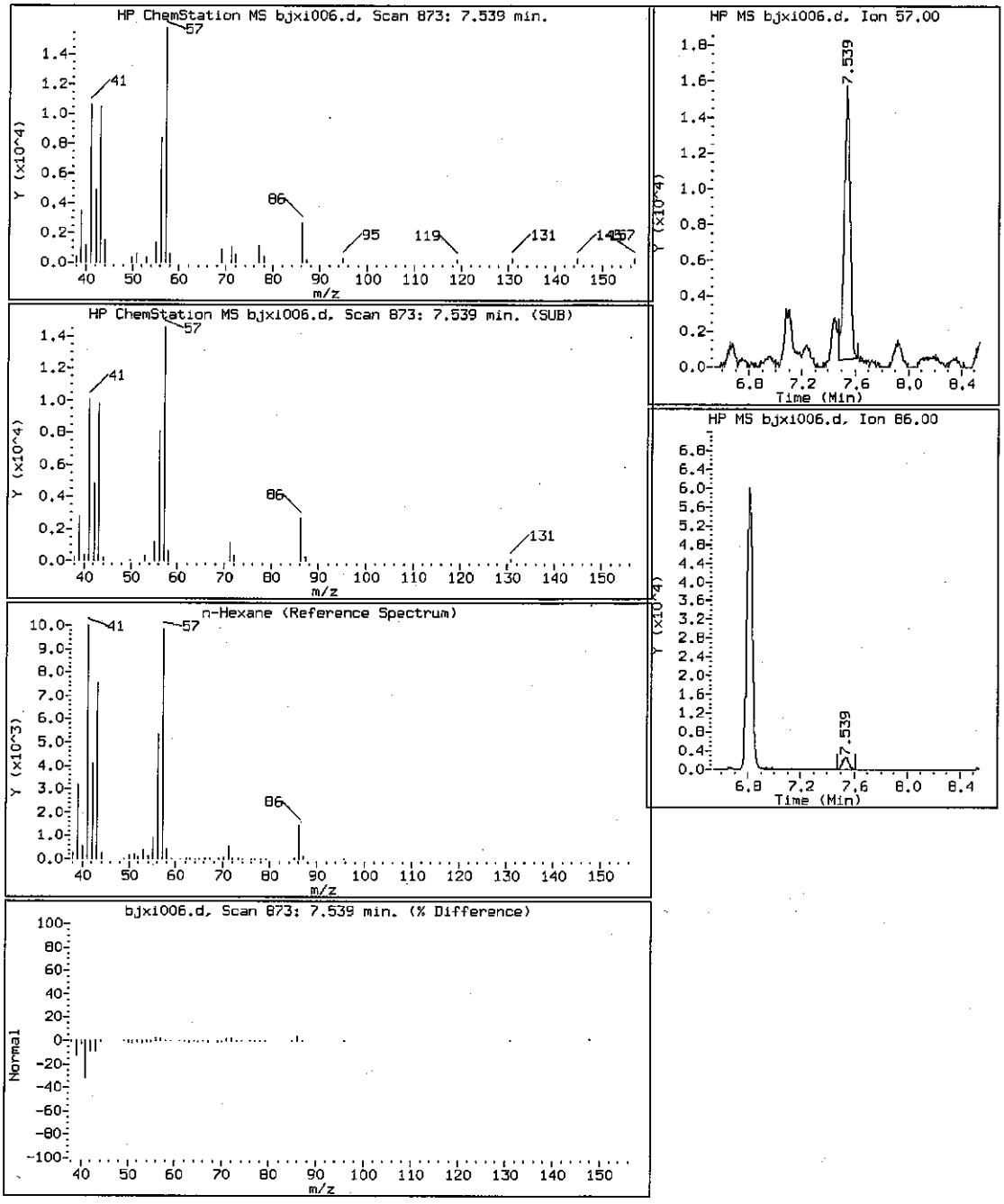
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

30 n-Hexane



Data File: bjxi006.d

Lab Sample ID: 200-3885-2

Client ID: SCA-021511-02

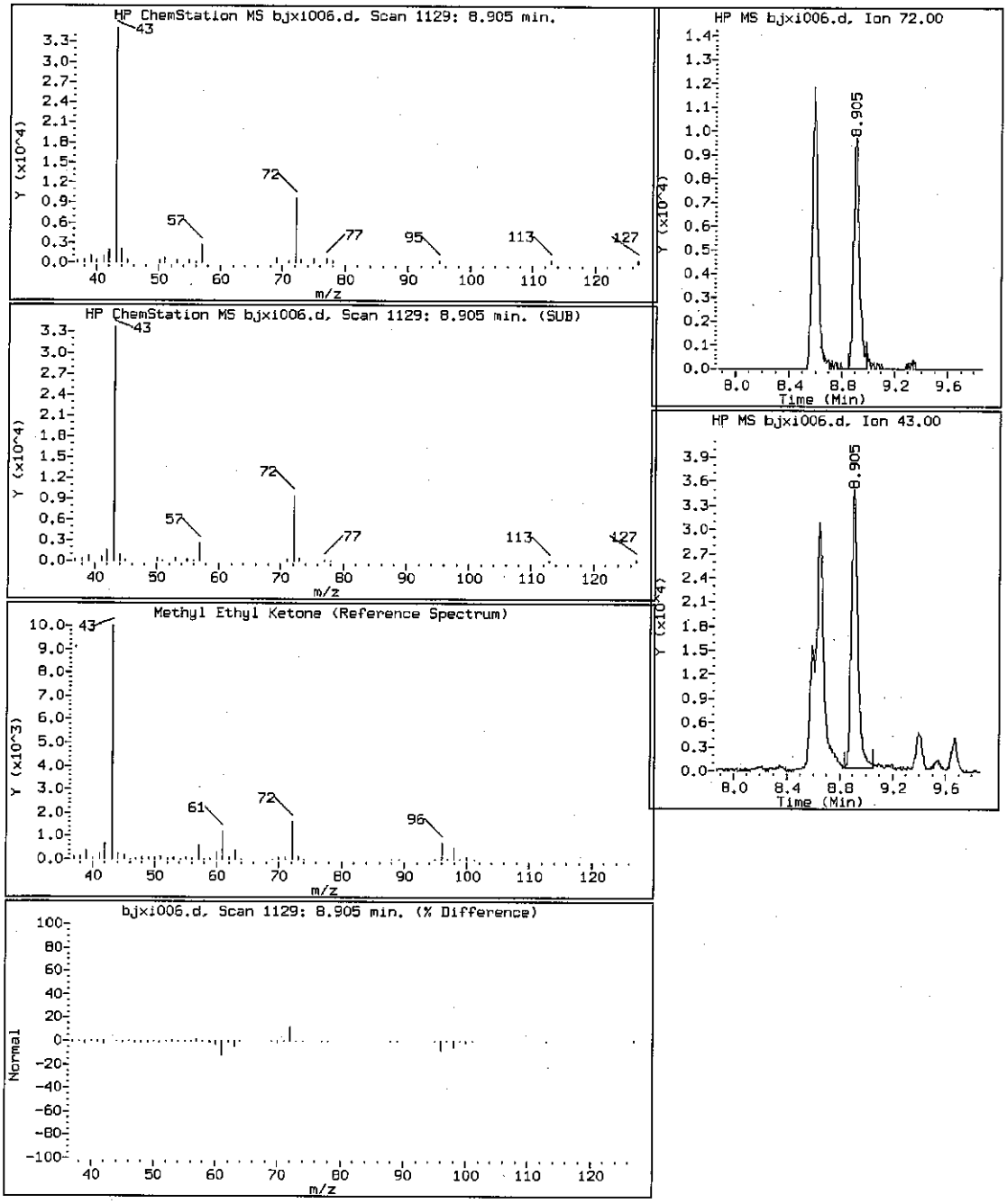
Sample Info: 200-3885-A-2

Date: 25-FEB-2011 13:38

Instrument: B.i

Operator: pad

36 Methyl Ethyl Ketone



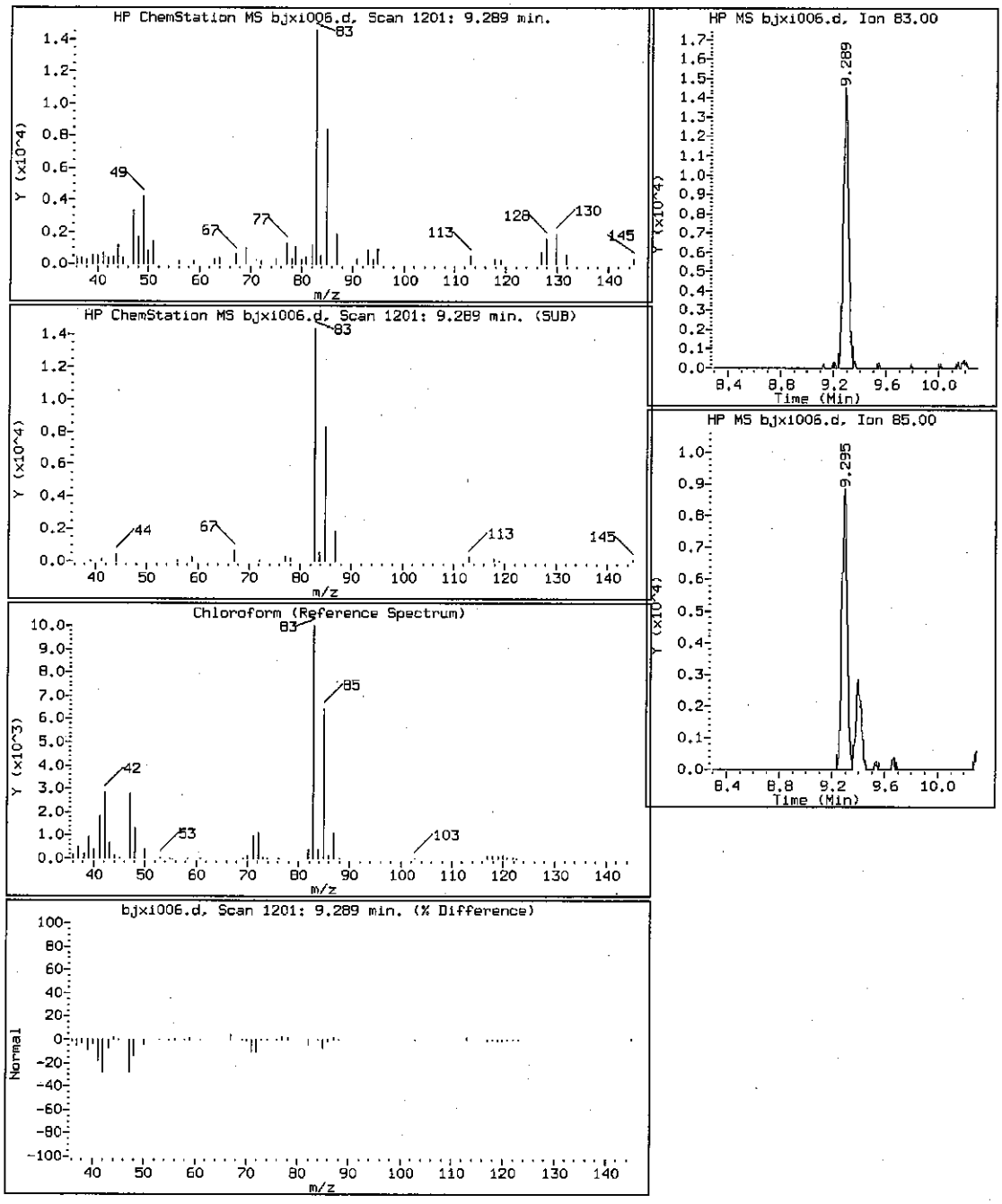
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

39 Chloroform



Data File: bjxi006.d

Lab Sample ID: 200-3885-2

Client ID: SCA-021511-02

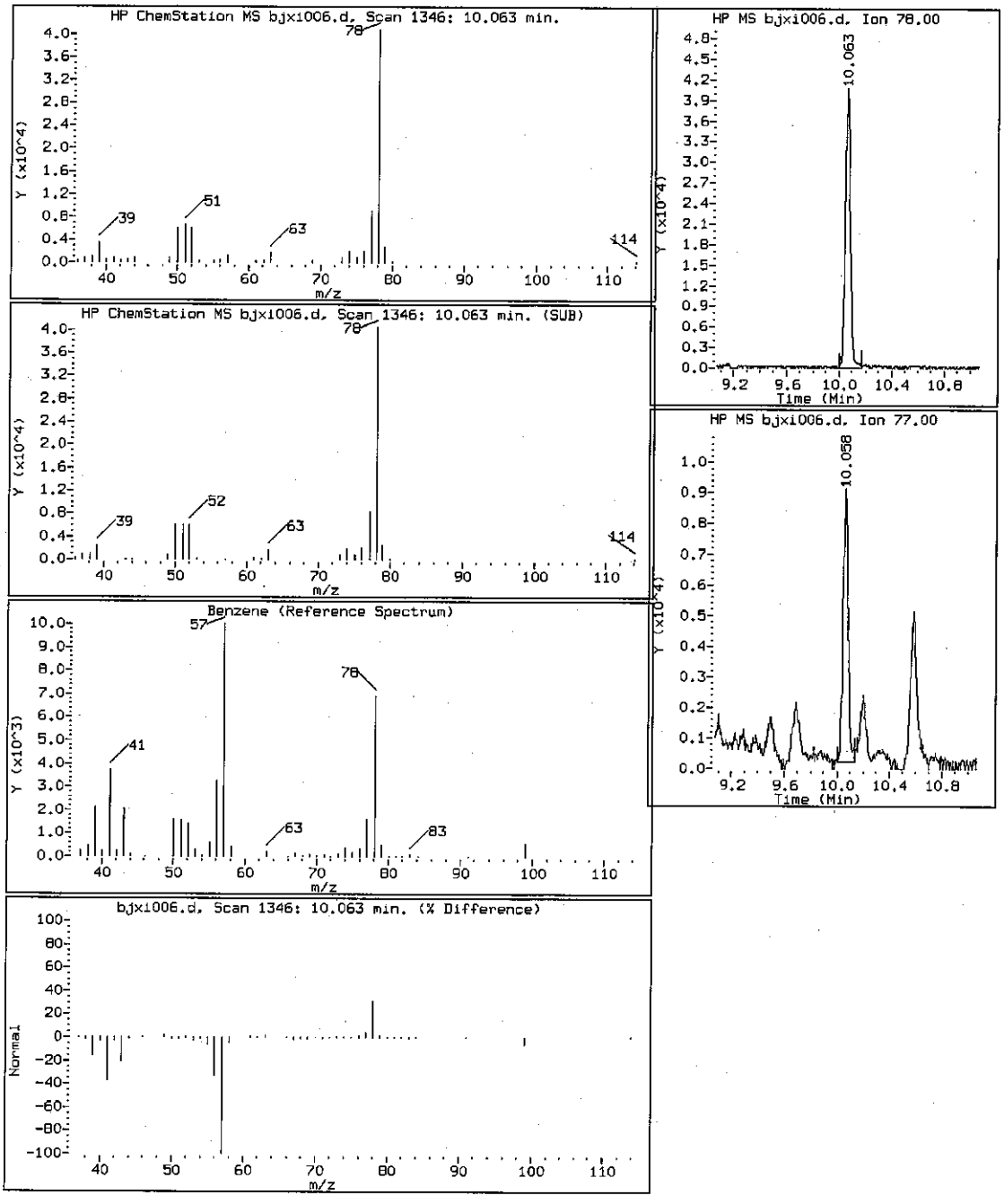
Sample Info: 200-3885-A-2

Date: 25-FEB-2011 13:38

Instrument: B.i

Operator: pad

44 Benzene



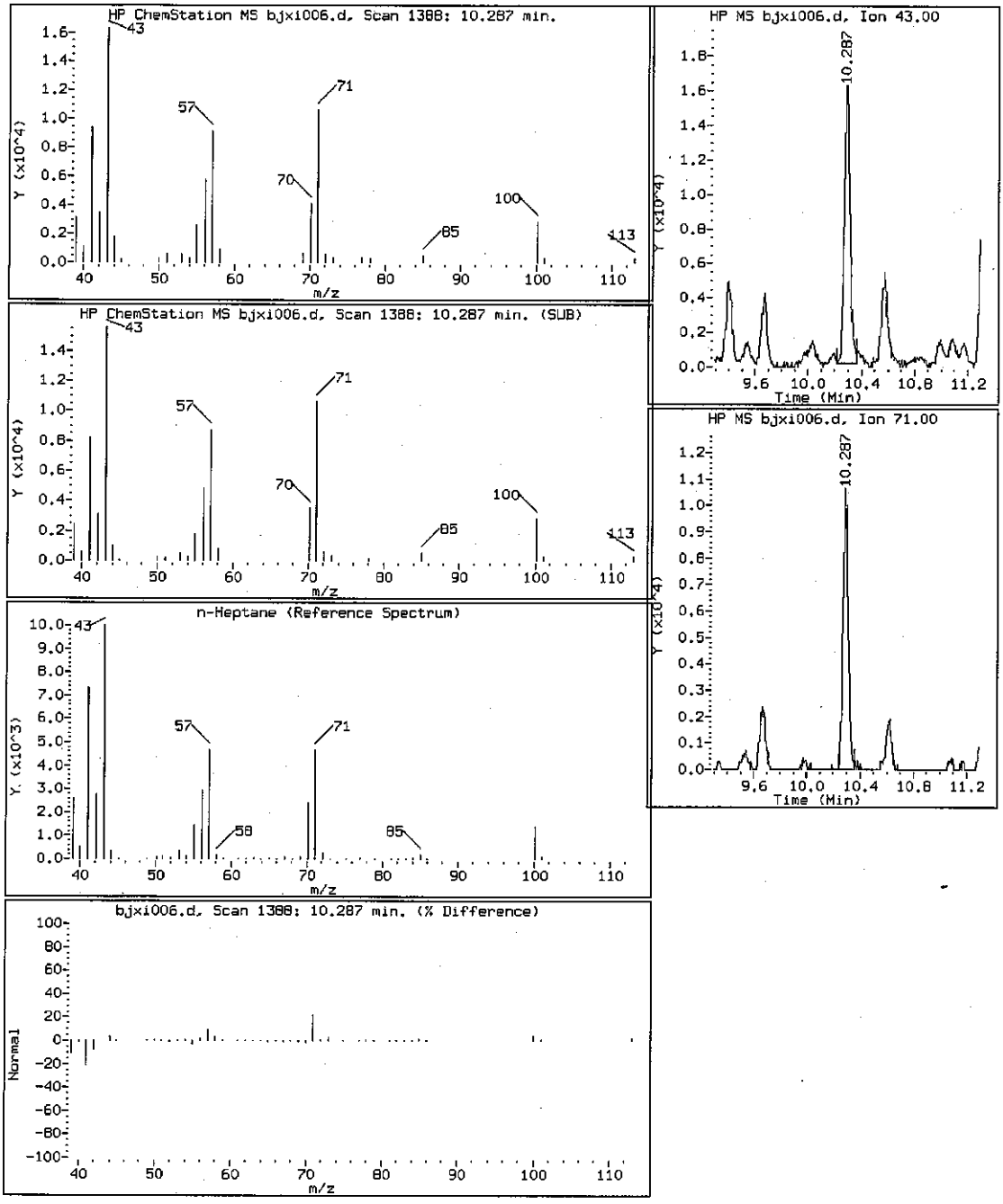
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

46 n-Heptane



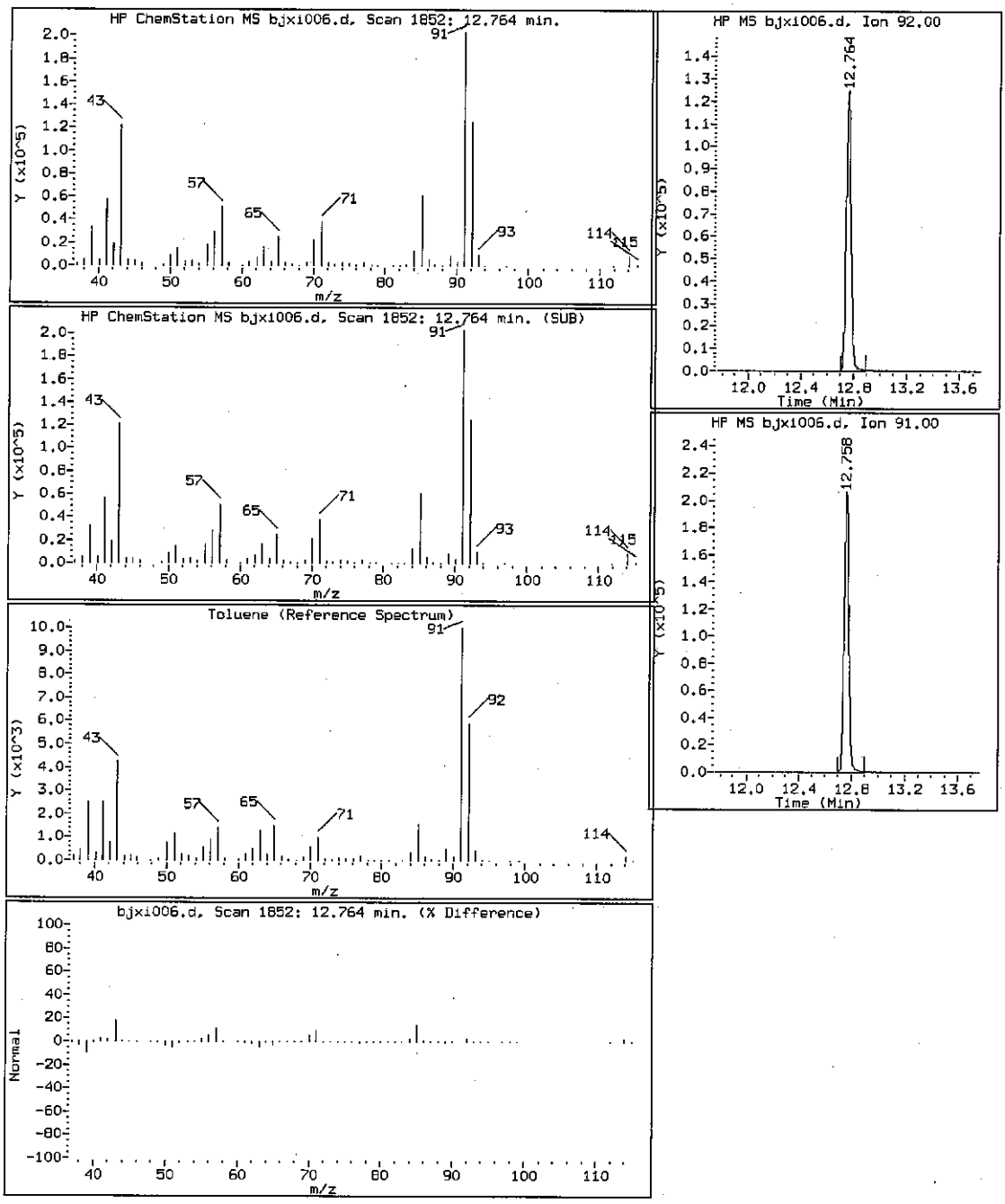
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

58 Toluene



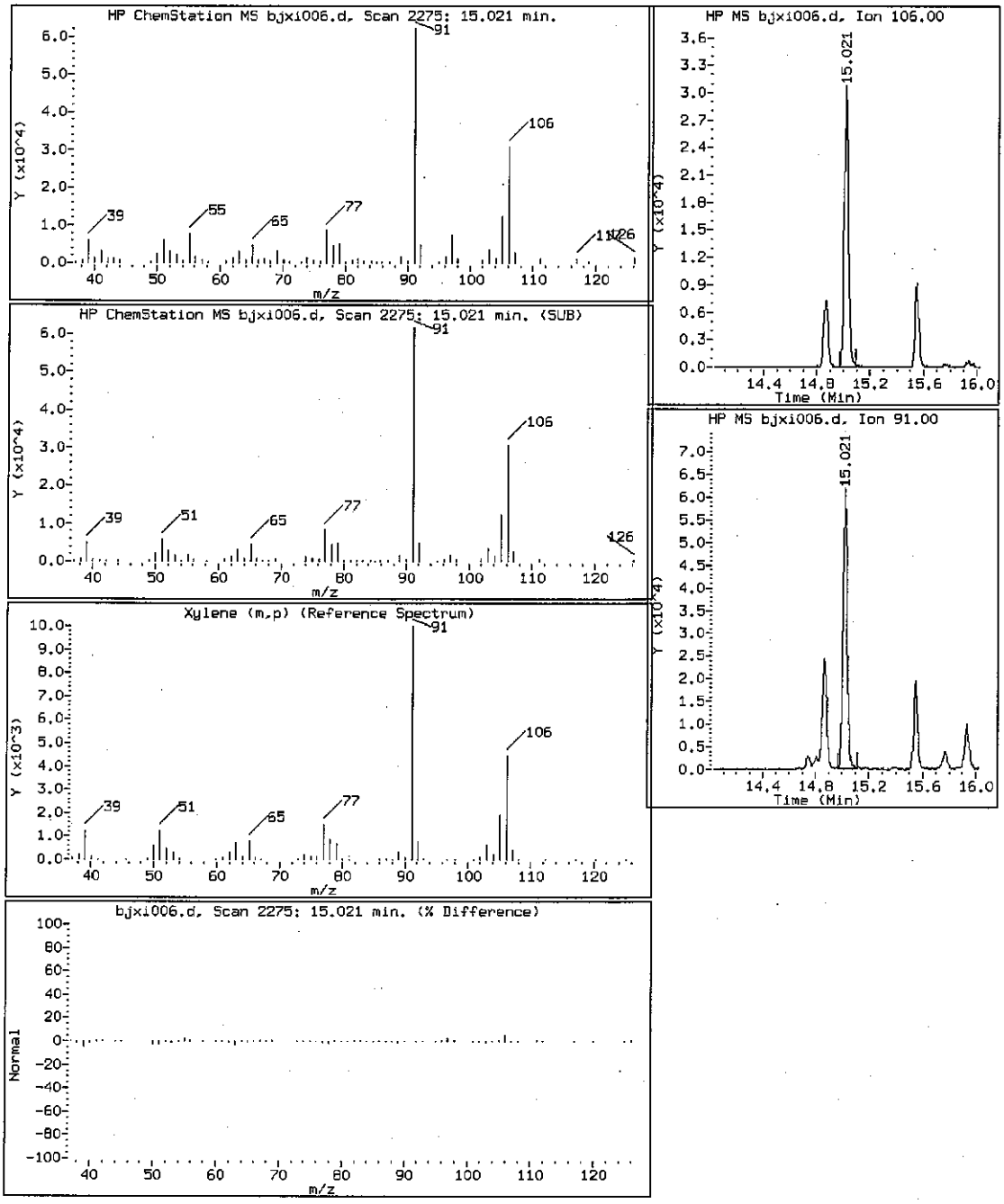
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

69 Xylene (m,p)



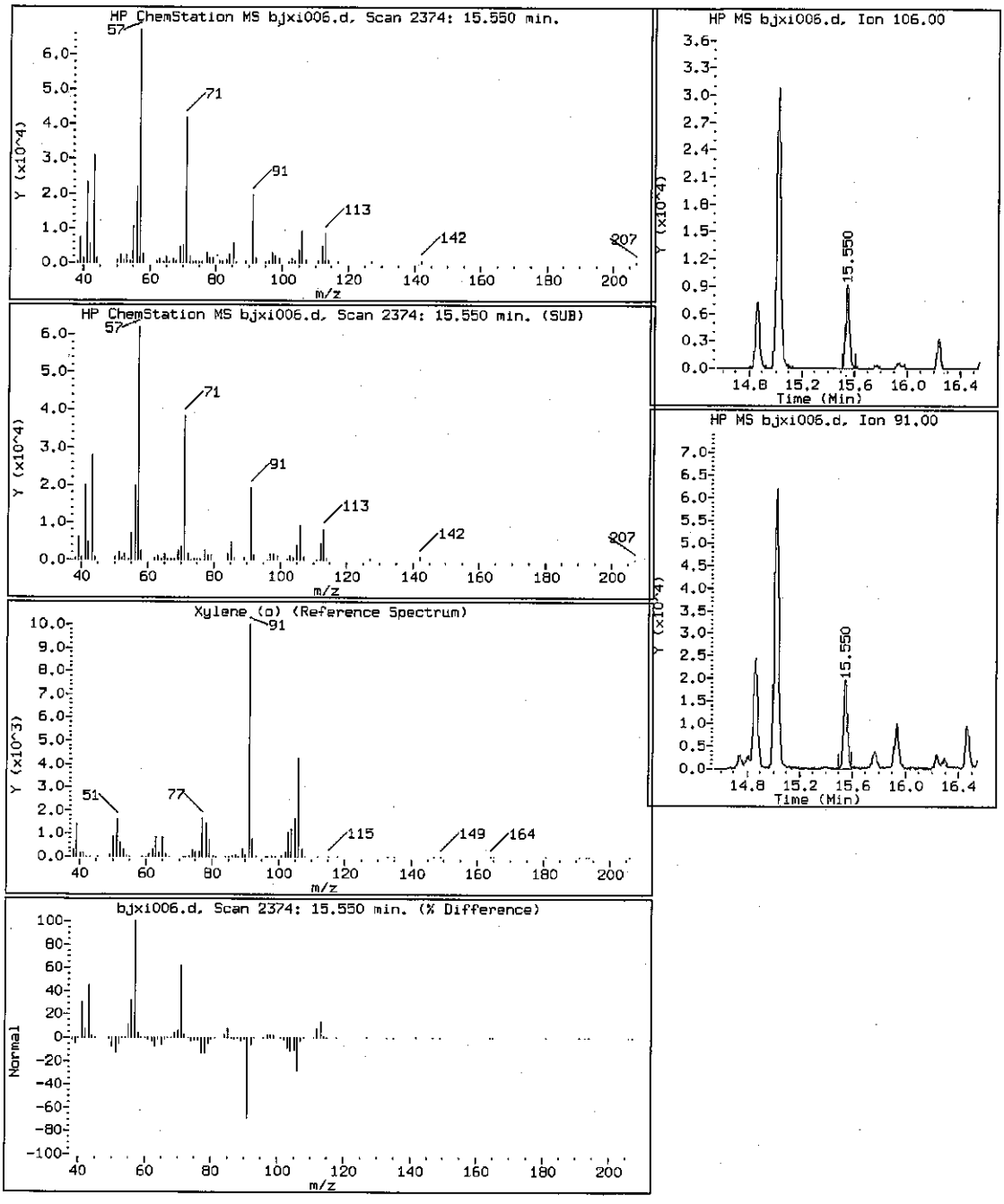
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

71 Xylene (o)



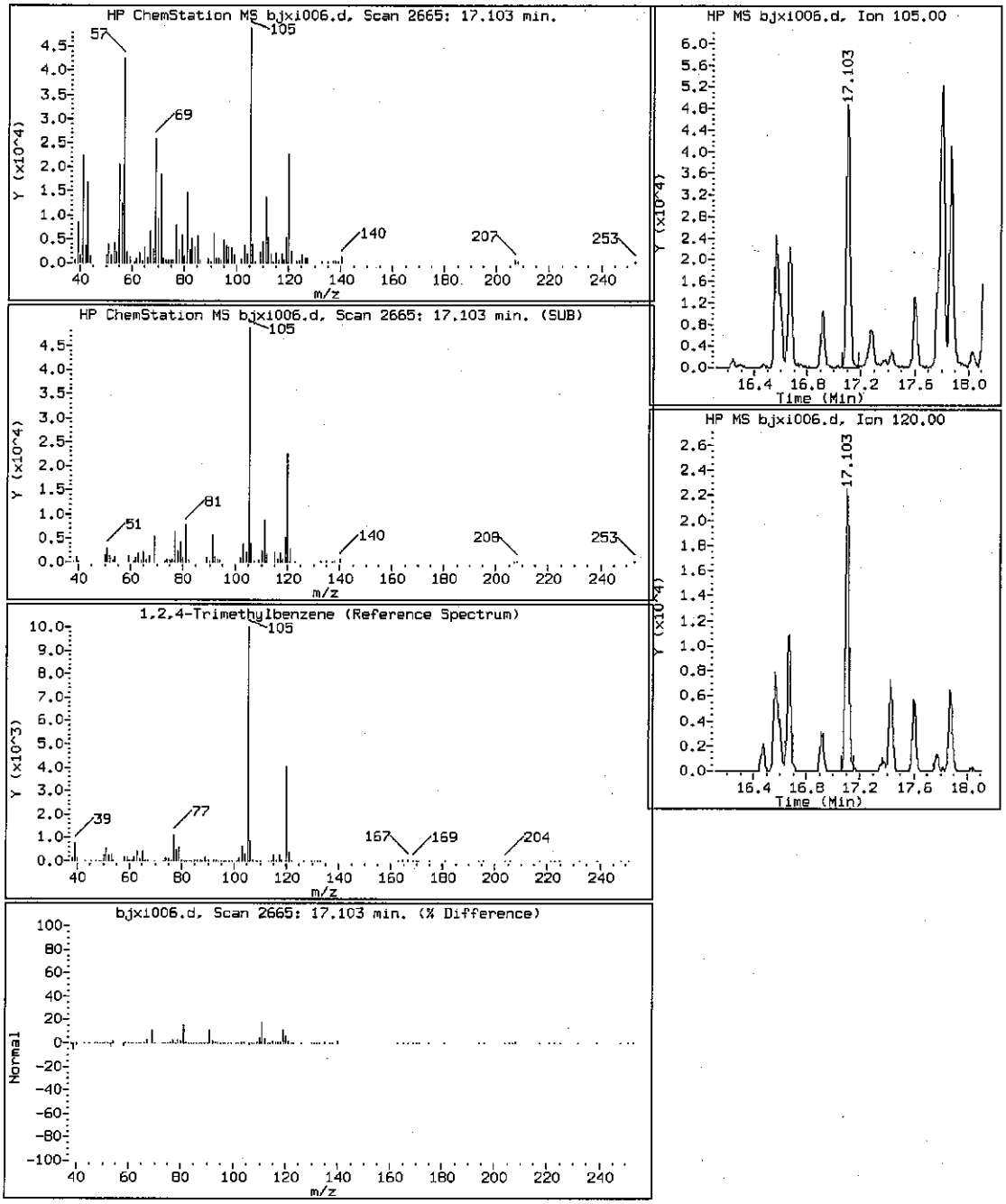
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

84 1,2,4-Trimethylbenzene



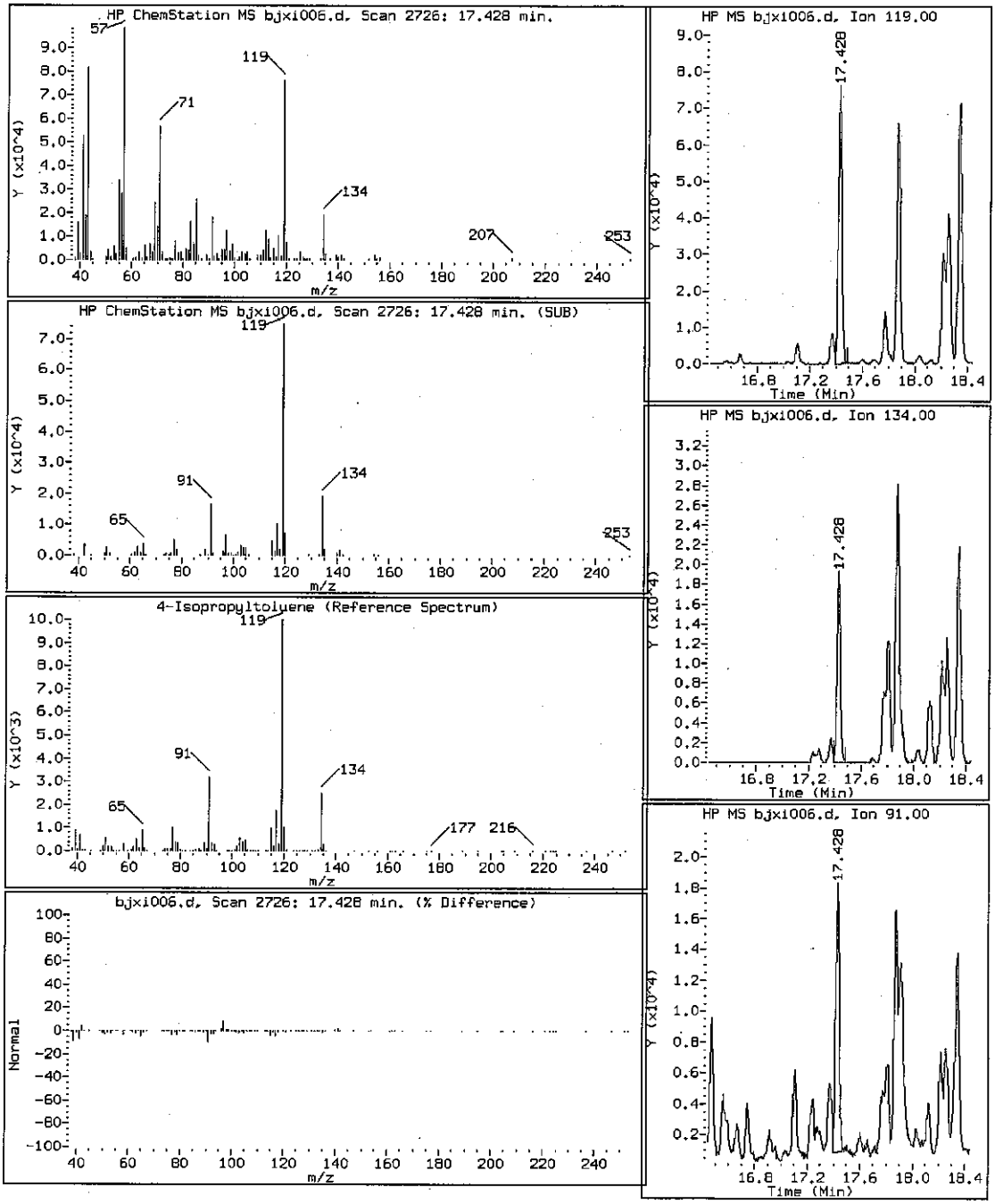
Data File: bjxi006.d

Lab Sample ID: 200-3885-2 Date: 25-FEB-2011 13:38

Client ID: SCA-021511-02 Instrument: B.i

Sample Info: 200-3885-A-2 Operator: pad

86 4-Isopropyltoluene



Manual Integration Report

Data File: bjxi006.d
Lab Sample ID: 200-3885-2
Inj. Date and Time: 25-FEB-2011 13:38
Instrument ID: B.i
Client ID: SCA-021511-02
Compound: 79 4-Ethyltoluene
CAS #: 622-96-8
Report Date: 02/27/2011

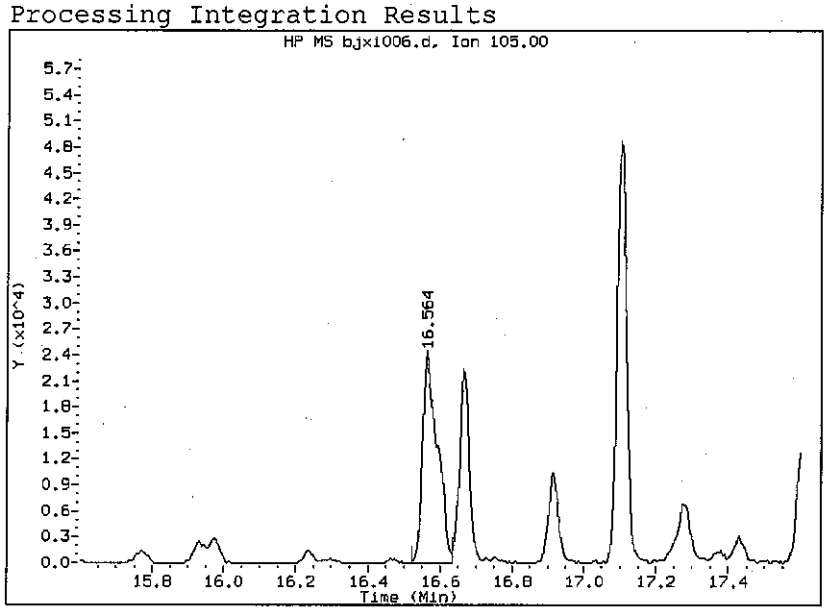
Processing Integration Results

RT: 16.56

Response: 69827

Amount: 0.157714

Conc: 0.157714



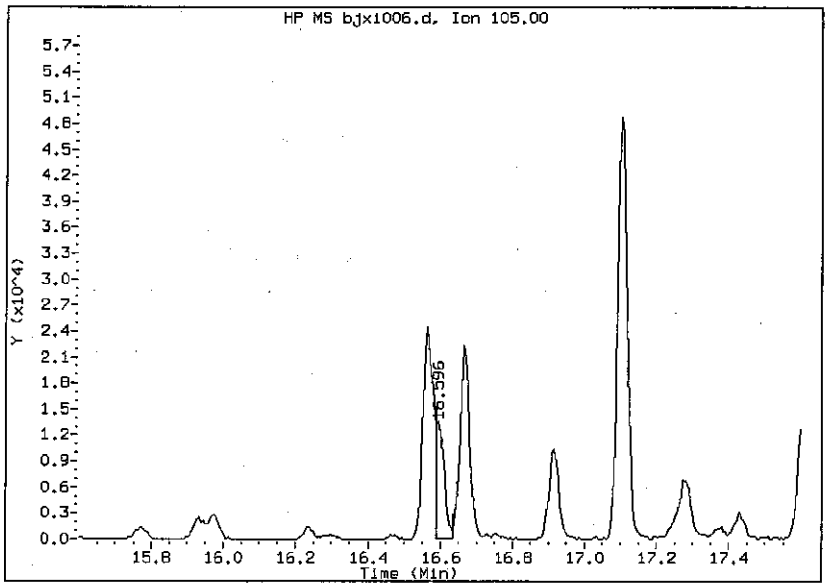
Manual Integration Results

RT: 16.60

Response: 20464

Amount: 0.046221

Conc: 0.046221



File Uploaded By: klp
Manual Integration Reason: Baseline event

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-03 Lab Sample ID: 200-3885-3

Matrix: Air Lab File ID: bjxi007.d

Analysis Method: TO-15 Date Collected: 02/15/2011 14:11

Sample wt/vol: 160(mL) Date Analyzed: 02/25/2011 14:32

Soil Aliquot Vol: Dilution Factor: 1.25

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.62	U	0.62	0.015
75-45-6	Freon 22	86.47	0.62	U	0.62	0.042
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.25	U	0.25	0.015
74-87-3	Chloromethane	50.49	0.62	U	0.62	0.026
106-97-8	n-Butane	58.12	2.9		0.62	0.11
75-01-4	Vinyl chloride	62.50	0.25	U	0.25	0.031
106-99-0	1,3-Butadiene	54.09	0.25	U	0.25	0.034
74-83-9	Bromomethane	94.94	0.25	U	0.25	0.018
75-00-3	Chloroethane	64.52	0.62	U	0.62	0.12
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.25	U	0.25	0.062
75-69-4	Trichlorofluoromethane	137.37	0.31		0.25	0.062
76-13-1	Freon TF	187.38	0.25	U	0.25	0.062
75-35-4	1,1-Dichloroethene	96.94	0.25	U	0.25	0.019
67-64-1	Acetone	58.08	49		6.2	1.2
67-63-0	Isopropyl alcohol	60.10	6.2	U	6.2	0.054
75-15-0	Carbon disulfide	76.14	0.62	U	0.62	0.062
107-05-1	3-Chloropropene	76.53	0.62	U	0.62	0.036
75-09-2	Methylene Chloride	84.93	3.8		0.62	0.038
75-65-0	tert-Butyl alcohol	74.12	6.2	U	6.2	0.12
1634-04-4	Methyl tert-butyl ether	88.15	0.25	U	0.25	0.016
156-60-5	trans-1,2-Dichloroethene	96.94	0.25	U	0.25	0.062
110-54-3	n-Hexane	86.17	1.1		0.25	0.029
75-34-3	1,1-Dichloroethane	98.96	0.25	U	0.25	0.016
78-93-3	Methyl Ethyl Ketone	72.11	8.1		0.62	0.080
156-59-2	cis-1,2-Dichloroethene	96.94	0.25	U	0.25	0.062
540-59-0	1,2-Dichloroethene, Total	96.94	0.25	U	0.25	0.12
67-66-3	Chloroform	119.38	0.25	U	0.25	0.062
109-99-9	Tetrahydrofuran	72.11	6.2	U	6.2	0.12
71-55-6	1,1,1-Trichloroethane	133.41	0.32		0.25	0.062
110-82-7	Cyclohexane	84.16	0.25	U	0.25	0.015
56-23-5	Carbon tetrachloride	153.81	0.25	U	0.25	0.062
540-84-1	2,2,4-Trimethylpentane	114.23	0.25	U	0.25	0.016
71-43-2	Benzene	78.11	0.93		0.25	0.062
107-06-2	1,2-Dichloroethane	98.96	0.25	U	0.25	0.019
142-82-5	n-Heptane	100.21	0.84		0.25	0.034

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-03 | Lab Sample ID: 200-3885-3

Matrix: Air | Lab File ID: bjxi007.d

Analysis Method: TO-15 | Date Collected: 02/15/2011 14:11

Sample wt/vol: 160(mL) | Date Analyzed: 02/25/2011 14:32

Soil Aliquot Vol: | Dilution Factor: 1.25

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 14275 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	0.29		0.25	0.018
80-62-6	Methyl methacrylate	100.12	0.62	U	0.62	0.12
78-87-5	1,2-Dichloropropane	112.99	0.25	U	0.25	0.020
123-91-1	1,4-Dioxane	88.11	6.2	U	6.2	0.044
75-27-4	Bromodichloromethane	163.83	0.25	U	0.25	0.062
10061-01-5	cis-1,3-Dichloropropene	110.97	0.25	U	0.25	0.062
108-10-1	methyl isobutyl ketone	100.16	0.62	U	0.62	0.080
108-88-3	Toluene	92.14	1.6		0.25	0.062
10061-02-6	trans-1,3-Dichloropropene	110.97	0.25	U	0.25	0.080
79-00-5	1,1,2-Trichloroethane	133.41	0.25	U	0.25	0.062
127-18-4	Tetrachloroethene	165.83	0.35		0.25	0.021
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.62	U	0.62	0.035
124-48-1	Dibromochloromethane	208.29	0.25	U	0.25	0.062
106-93-4	1,2-Dibromoethane	187.87	0.25	U	0.25	0.015
108-90-7	Chlorobenzene	112.30	0.25	U	0.25	0.062
100-41-4	Ethylbenzene	106.17	0.25	U	0.25	0.018
179601-23-1	m,p-Xylene	106.17	0.62	U	0.62	0.029
95-47-6	Xylene, o-	106.17	0.25	U	0.25	0.062
1330-20-7	Xylene (total)	106.17	0.78		0.25	0.19
100-42-5	Styrene	104.15	0.25	U	0.25	0.062
75-25-2	Bromoform	252.75	0.25	U	0.25	0.062
98-82-8	Cumene	120.19	0.25	U	0.25	0.062
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.25	U	0.25	0.062
103-65-1	n-Propylbenzene	120.19	0.25	U	0.25	0.080
622-96-8	4-Ethyltoluene	120.20	0.25	U	0.25	0.080
108-67-8	1,3,5-Trimethylbenzene	120.20	0.25	U	0.25	0.080
95-49-8	2-Chlorotoluene	126.59	0.25	U	0.25	0.080
98-06-6	tert-Butylbenzene	134.22	0.25	U	0.25	0.062
95-63-6	1,2,4-Trimethylbenzene	120.20	0.34		0.25	0.080
135-98-8	sec-Butylbenzene	134.22	0.25	U	0.25	0.028
99-87-6	4-Isopropyltoluene	134.22	0.25	U	0.25	0.016
541-73-1	1,3-Dichlorobenzene	147.00	0.25	U	0.25	0.022
106-46-7	1,4-Dichlorobenzene	147.00	0.25	U	0.25	0.026
100-44-7	Benzyl chloride	126.58	0.25	U	0.25	0.028
104-51-8	n-Butylbenzene	134.22	0.25	U	0.25	0.080

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-03 Lab Sample ID: 200-3885-3

Matrix: Air Lab File ID: bjxi007.d

Analysis Method: TO-15 Date Collected: 02/15/2011 14:11

Sample wt/vol: 160(mL) Date Analyzed: 02/25/2011 14:32

Soil Aliquot Vol: Dilution Factor: 1.25

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	0.25	U	0.25	0.021
120-82-1	1,2,4-Trichlorobenzene	181.45	0.62	U	0.62	0.040
87-68-3	Hexachlorobutadiene	260.76	0.25	U	0.25	0.028
91-20-3	Naphthalene	128.17	0.62	U	0.62	0.051

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-03 Lab Sample ID: 200-3885-3

Matrix: Air Lab File ID: bjxi007.d

Analysis Method: TO-15 Date Collected: 02/15/2011 14:11

Sample wt/vol: 160(mL) Date Analyzed: 02/25/2011 14:32

Soil Aliquot Vol: Dilution Factor: 1.25

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	3.1	U	3.1	0.074
75-45-6	Freon 22	86.47	2.2	U	2.2	0.15
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.7	U	1.7	0.10
74-87-3	Chloromethane	50.49	1.3	U	1.3	0.054
106-97-8	n-Butane	58.12	6.8		1.5	0.25
75-01-4	Vinyl chloride	62.50	0.64	U	0.64	0.080
106-99-0	1,3-Butadiene	54.09	0.55	U	0.55	0.075
74-83-9	Bromomethane	94.94	0.97	U	0.97	0.068
75-00-3	Chloroethane	64.52	1.6	U	1.6	0.33
593-60-2	Bromoethene(Vinyl Bromide)	106.96	1.1	U	1.1	0.27
75-69-4	Trichlorofluoromethane	137.37	1.8		1.4	0.35
76-13-1	Freon TF	187.38	1.9	U	1.9	0.48
75-35-4	1,1-Dichloroethene	96.94	0.99	U	0.99	0.074
67-64-1	Acetone	58.08	120		15	2.9
67-63-0	Isopropyl alcohol	60.10	15	U	15	0.13
75-15-0	Carbon disulfide	76.14	1.9	U	1.9	0.19
107-05-1	3-Chloropropene	76.53	2.0	U	2.0	0.11
75-09-2	Methylene Chloride	84.93	13		2.2	0.13
75-65-0	tert-Butyl alcohol	74.12	19	U	19	0.38
1634-04-4	Methyl tert-butyl ether	88.15	0.90	U	0.90	0.059
156-60-5	trans-1,2-Dichloroethene	96.94	0.99	U	0.99	0.25
110-54-3	n-Hexane	86.17	3.8		0.88	0.10
75-34-3	1,1-Dichloroethane	98.96	1.0	U	1.0	0.066
78-93-3	Methyl Ethyl Ketone	72.11	24		1.8	0.24
156-59-2	cis-1,2-Dichloroethene	96.94	0.99	U	0.99	0.25
540-59-0	1,2-Dichloroethene, Total	96.94	0.99	U	0.99	0.50
67-66-3	Chloroform	119.38	1.2	U	1.2	0.31
109-99-9	Tetrahydrofuran	72.11	18	U	18	0.37
71-55-6	1,1,1-Trichloroethane	133.41	1.7		1.4	0.34
110-82-7	Cyclohexane	84.16	0.86	U	0.86	0.052
56-23-5	Carbon tetrachloride	153.81	1.6	U	1.6	0.39
540-84-1	2,2,4-Trimethylpentane	114.23	1.2	U	1.2	0.076
71-43-2	Benzene	78.11	3.0		0.80	0.20
107-06-2	1,2-Dichloroethane	98.96	1.0	U	1.0	0.076
142-82-5	n-Heptane	100.21	3.4		1.0	0.14

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-03 Lab Sample ID: 200-3885-3

Matrix: Air Lab File ID: bjxi007.d

Analysis Method: TO-15 Date Collected: 02/15/2011 14:11

Sample wt/vol: 160(mL) Date Analyzed: 02/25/2011 14:32

Soil Aliquot Vol: Dilution Factor: 1.25

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	1.6		1.3	0.094
80-62-6	Methyl methacrylate	100.12	2.6	U	2.6	0.51
78-87-5	1,2-Dichloropropane	112.99	1.2	U	1.2	0.092
123-91-1	1,4-Dioxane	88.11	23	U	23	0.16
75-27-4	Bromodichloromethane	163.83	1.7	U	1.7	0.42
10061-01-5	cis-1,3-Dichloropropene	110.97	1.1	U	1.1	0.28
108-10-1	methyl isobutyl ketone	100.16	2.6	U	2.6	0.33
108-88-3	Toluene	92.14	6.0		0.94	0.24
10061-02-6	trans-1,3-Dichloropropene	110.97	1.1	U	1.1	0.36
79-00-5	1,1,2-Trichloroethane	133.41	1.4	U	1.4	0.34
127-18-4	Tetrachloroethene	165.83	2.4		1.7	0.14
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.6	U	2.6	0.14
124-48-1	Dibromochloromethane	208.29	2.1	U	2.1	0.53
106-93-4	1,2-Dibromoethane	187.87	1.9	U	1.9	0.12
108-90-7	Chlorobenzene	112.30	1.1	U	1.1	0.29
100-41-4	Ethylbenzene	106.17	1.1	U	1.1	0.076
179601-23-1	m,p-Xylene	106.17	2.7	U	2.7	0.12
95-47-6	Xylene, o-	106.17	1.1	U	1.1	0.27
1330-20-7	Xylene (total)	106.17	3.4		1.1	0.81
100-42-5	Styrene	104.15	1.1	U	1.1	0.27
75-25-2	Bromoform	252.75	2.6	U	2.6	0.65
98-82-8	Cumene	120.19	1.2	U	1.2	0.31
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.7	U	1.7	0.43
103-65-1	n-Propylbenzene	120.19	1.2	U	1.2	0.39
622-96-8	4-Ethyltoluene	120.20	1.2	U	1.2	0.39
108-67-8	1,3,5-Trimethylbenzene	120.20	1.2	U	1.2	0.39
95-49-8	2-Chlorotoluene	126.59	1.3	U	1.3	0.41
98-06-6	tert-Butylbenzene	134.22	1.4	U	1.4	0.34
95-63-6	1,2,4-Trimethylbenzene	120.20	1.7		1.2	0.39
135-98-8	sec-Butylbenzene	134.22	1.4	U	1.4	0.15
99-87-6	4-Isopropyltoluene	134.22	1.4	U	1.4	0.089
541-73-1	1,3-Dichlorobenzene	147.00	1.5	U	1.5	0.14
106-46-7	1,4-Dichlorobenzene	147.00	1.5	U	1.5	0.16
100-44-7	Benzyl chloride	126.58	1.3	U	1.3	0.14
104-51-8	n-Butylbenzene	134.22	1.4	U	1.4	0.44

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SDG No.: 200-3885

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Matrix: Air Lab File ID: bjxi007.d

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% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	1.5	U	1.5	0.13
120-82-1	1,2,4-Trichlorobenzene	181.45	4.6	U	4.6	0.30
87-68-3	Hexachlorobutadiene	260.76	2.7	U	2.7	0.29
91-20-3	Naphthalene	128.17	3.3	U	3.3	0.27

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-3885-3
Client Smp ID: SCA-021511-03
Inj Date : 25-FEB-2011 14:32
Operator : pad Inst ID: B.i
Smp Info : 200-3885-A-3
Misc Info : 160,1.25, all74
Comment :
Method : /chem/B.i/Bsvr.p/bjxito15.b/to15v5.m
Meth Date : 27-Feb-2011 09:51 klp Quant Type: ISTD
Cal Date : 09-FEB-2011 20:19 Cal File: bjx011.d
Als bottle: 6
Dil Factor: 1.25000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.25000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	160.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	3.040	3.045	(0.330)	46139	0.43381	0.54(a)
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	3.333	3.344	(0.362)	4429	0.17241	0.22(a)
6 Butane	43	3.483	3.488	(0.378)	101066	2.29676	2.9(Q)
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	4.806	4.806	(0.522)	43910	0.24975	0.31
17 1,1,2-Trichloro-1,2,2-trifluo	101	5.794	5.804	(0.629)	23897	0.19265	0.24(a)
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.039	6.055	(0.656)	3777900	38.8023	49

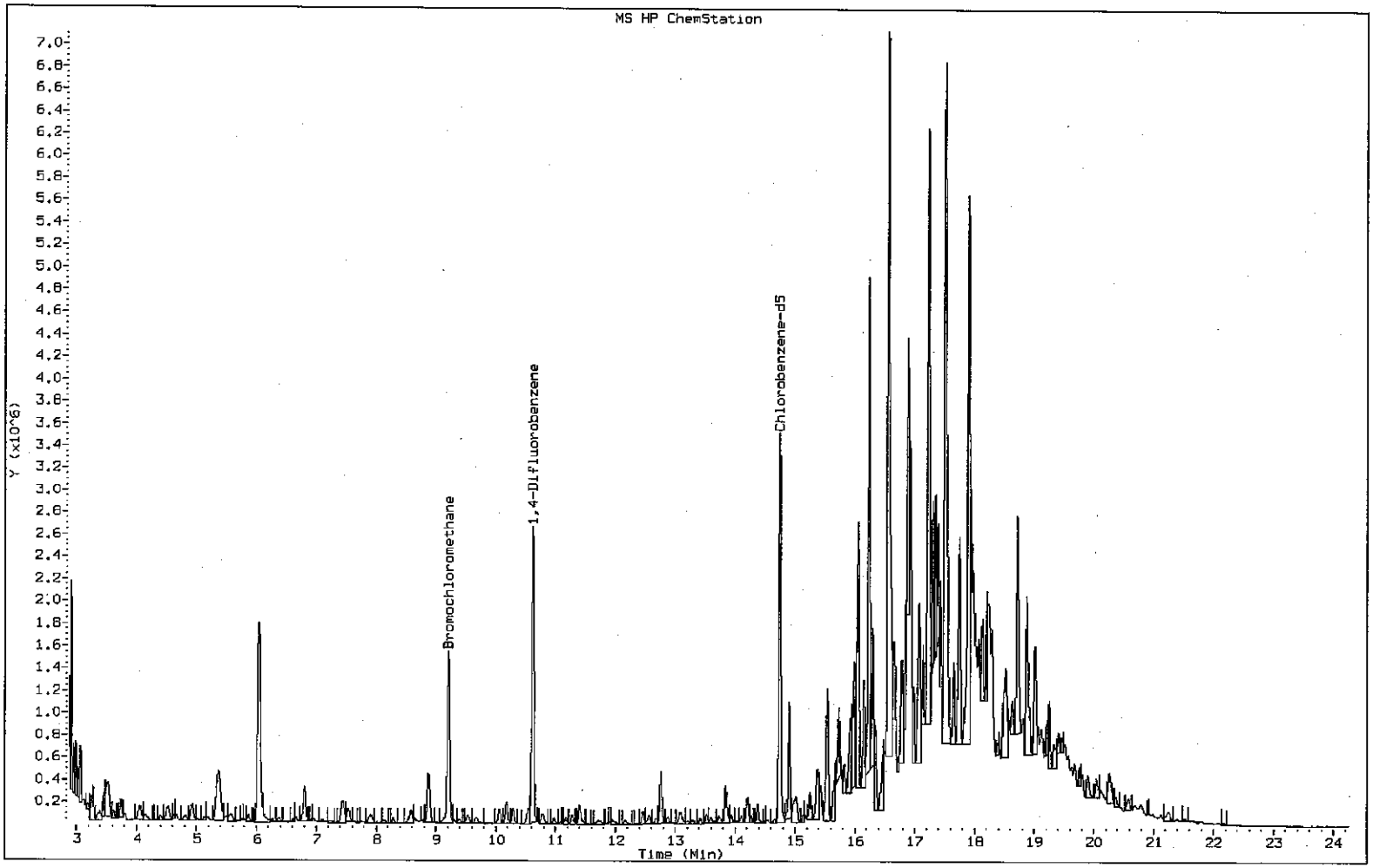
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	21 Carbon disulfide	76	6.274	6.279	(0.681)	48904	0.24474	0.31(a)
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.808	6.813	(0.739)	223606	3.05881	3.8
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.534	7.544	(0.818)	99330	0.86472	1.1
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61				5821	0.08373	0.10(a)
	34 1,2-Dichloroethene (cis)	96	8.841	8.852	(0.960)	5821	0.08373	0.10(a)
	36 Methyl Ethyl Ketone	72	8.878	8.868	(0.964)	222179	6.49542	8.1(Q)
*	37 Bromochloromethane	128	9.209	9.215	(1.000)	559639	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	9.289	9.295	(1.009)	8602	0.05950	0.074(a)
	40 Cyclohexane	84	9.540	9.551	(0.898)	15233	0.14733	0.18(aQ)
	41 1,1,1-Trichloroethane	97	9.535	9.540	(0.898)	37825	0.25436	0.32
	42 Carbon tetrachloride	117	9.743	9.743	(0.918)	6539	0.04504	0.056(aQ)
	43 2,2,4-Trimethylpentane	57	10.015	10.037	(0.943)	21216	0.05978	0.075(aQM)
	44 Benzene	78	10.063	10.069	(0.948)	167426	0.74310	0.93
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	10.293	10.293	(0.969)	86097	0.67247	0.84
*	47 1,4-Difluorobenzene	114	10.618	10.624	(1.000)	2891748	10.0000	
	49 Trichloroethene	95	10.981	10.986	(1.034)	22291	0.23351	0.29
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	12.561	12.529	(1.183)	67809	0.45902	0.57(a)
	58 Toluene	92	12.758	12.764	(0.865)	202165	1.26856	1.6
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.532	13.532	(0.917)	31281	0.27944	0.35
	62 2-Hexanone	43	13.735	13.708	(0.931)	49916	0.35692	0.45(aH)
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.749	14.754	(1.000)	2574429	10.0000	
	66 Chlorobenzene	112	14.786	14.792	(1.003)	24581	0.11579	0.14(a)
	68 Ethylbenzene	91	14.866	14.872	(1.008)	50047	0.14327	0.18(a)
	69 Xylene (m,p)	106	15.016	15.027	(1.018)	62431	0.46369	0.58(a)
M	70 Xylenes, Total	106				83055	0.62319	0.78
	71 Xylene (o)	106	15.550	15.550	(1.054)	20624	0.15950	0.20(aH)
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	15.971	15.982	(1.083)	16717	0.04446	0.056(aQ)
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
76 n-Propylbenzene	91	16.468	16.473	(1.117)	36483	0.07802	0.098(a)
79 4-Ethyltoluene	105	16.596	16.601	(1.125)	27654	0.06979	0.087(a)
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	16.670	16.676	(1.130)	30956	0.09532	0.12(a)
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	17.103	17.108	(1.160)	88262	0.27406	0.34
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	17.433	17.439	(1.182)	35907	0.09469	0.12(a)
87 1,3-Dichlorobenzene	146	17.498	17.498	(1.186)	11701	0.05608	0.070(aQH)
88 1,4-Dichlorobenzene	146	17.604	17.610	(1.194)	16653	0.07873	0.098(aQ)
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	18.063	18.058	(1.225)	9737	0.04896	0.061(aQ)
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	bjxi007.d	Date:	25-FEB-2011 14:32
Client ID:	SCA-021511-03	Instrument:	B.i
Operator:	pad	Inj Vol:	100.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-3885-A-3		
Lab Sample ID:	200-3885-3		



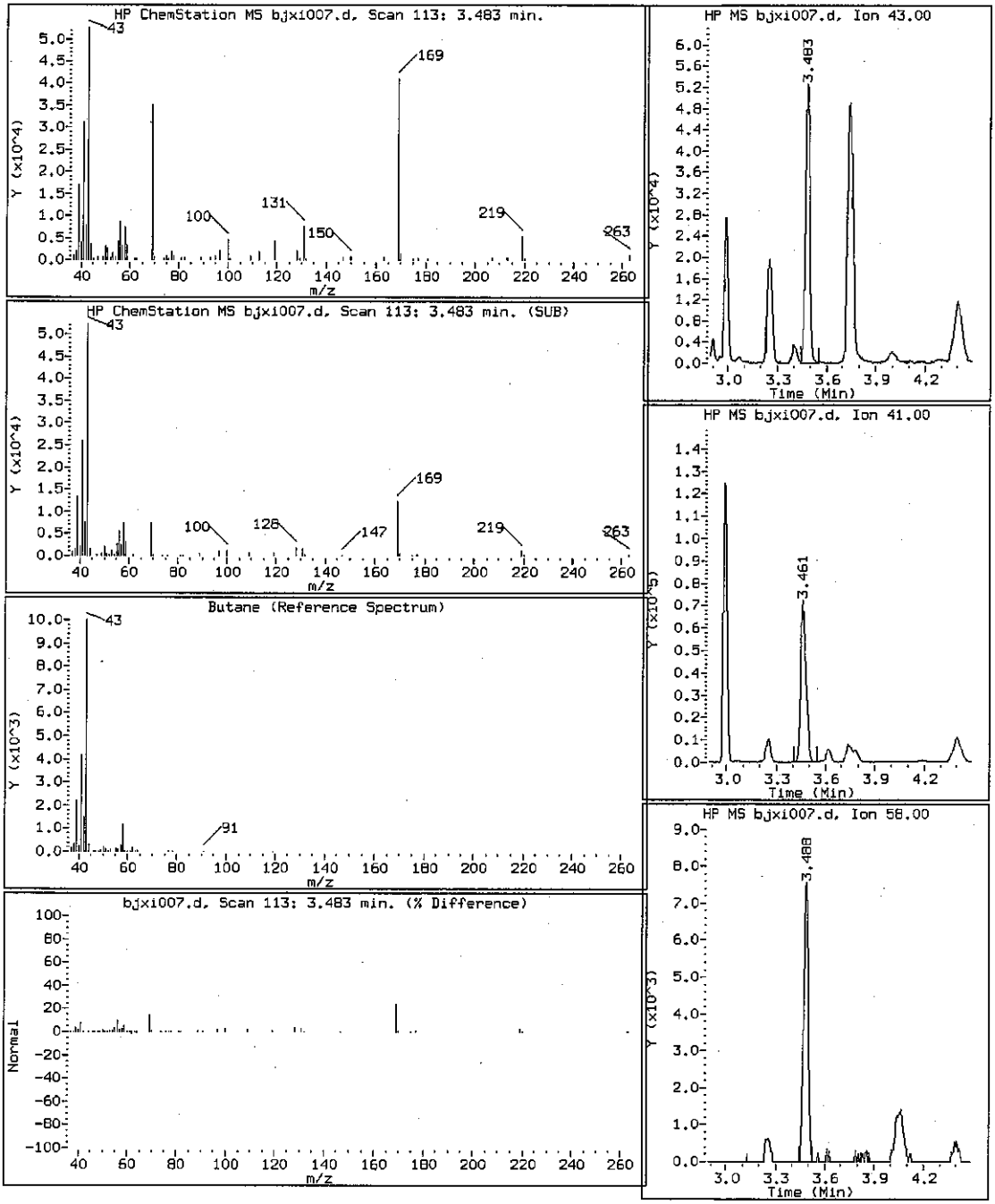
Data File: bjxi007.d

Lab Sample ID: 200-3885-3 Date: 25-FEB-2011 14:32

Client ID: SCA-021511-03 Instrument: B.i

Sample Info: 200-3885-A-3 Operator: pad

6 Butane



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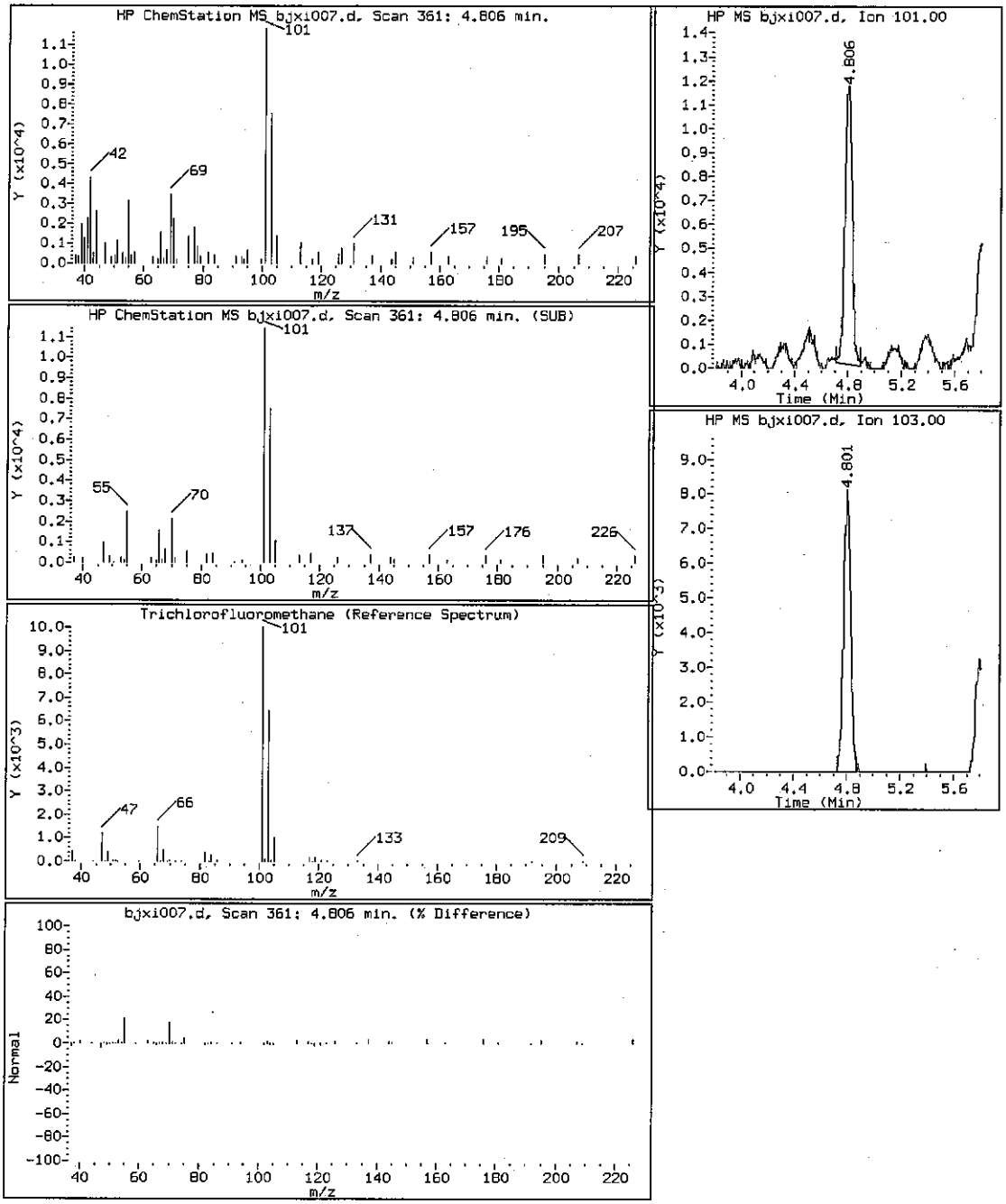
Lab Sample ID: 200-3885-3 Date: 25-FEB-2011 14:32

Client ID: SCA-021511-03 Instrument: B.i

Sample Info: 200-3885-A-3 Operator: pad

13 Trichlorofluoromethane



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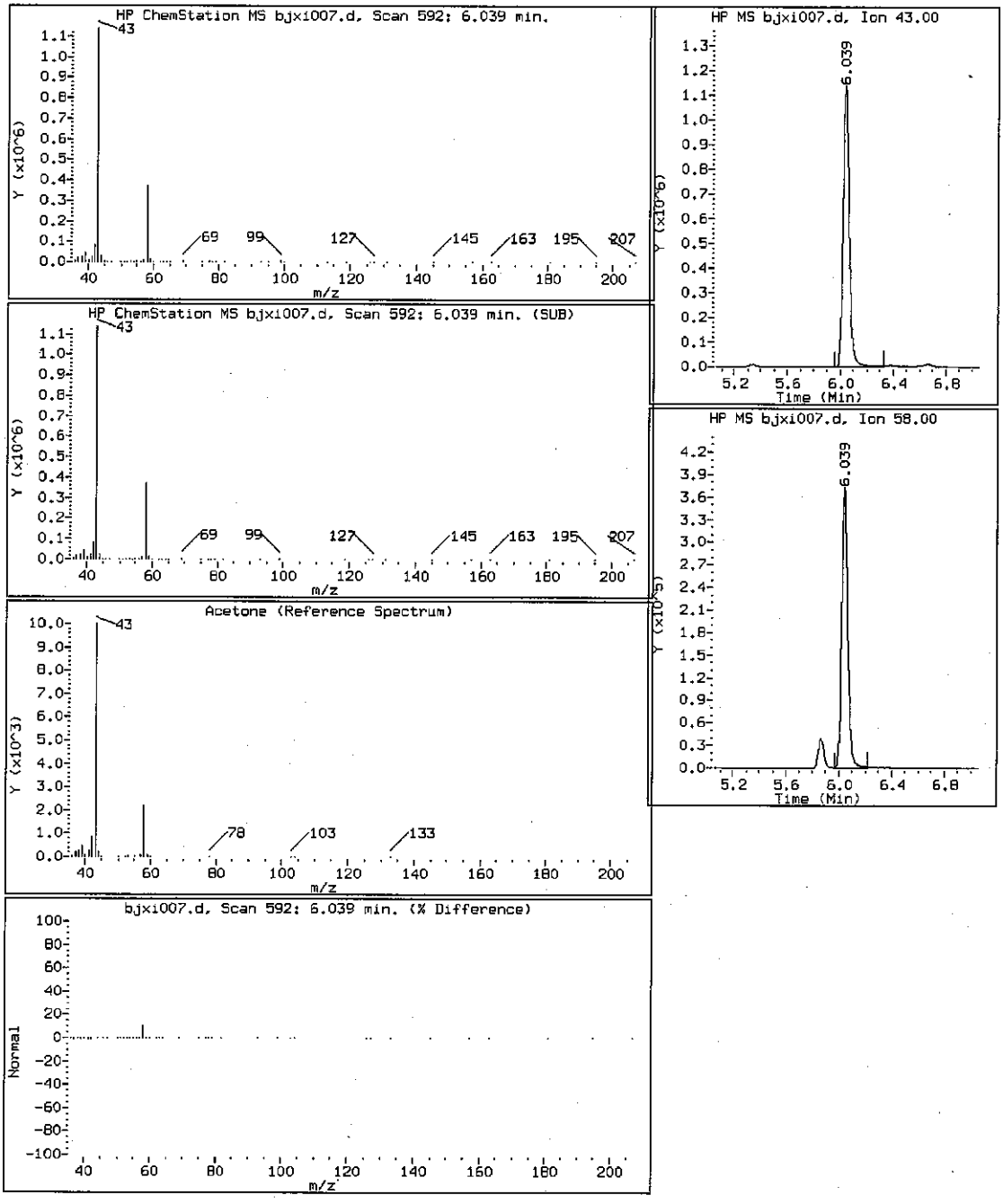
Sample Info: 200-3885-A-3 Operator: pad

20 Acetone



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Lab Sample ID: 200-3885-3 Date: 25-FEB-2011 14:32

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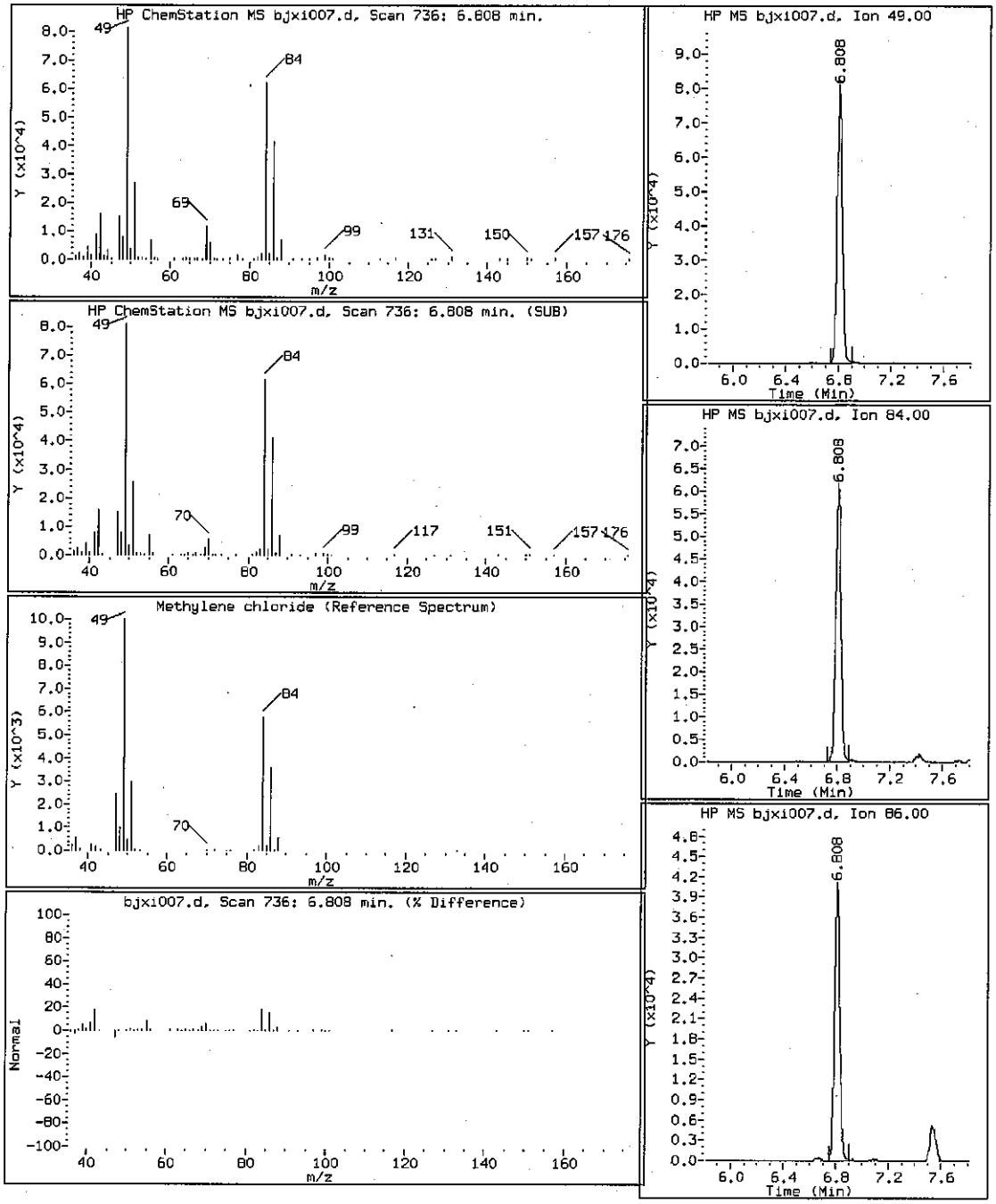
Sample Info: 200-3885-A-3 Operator: pad

25 Methylene chloride



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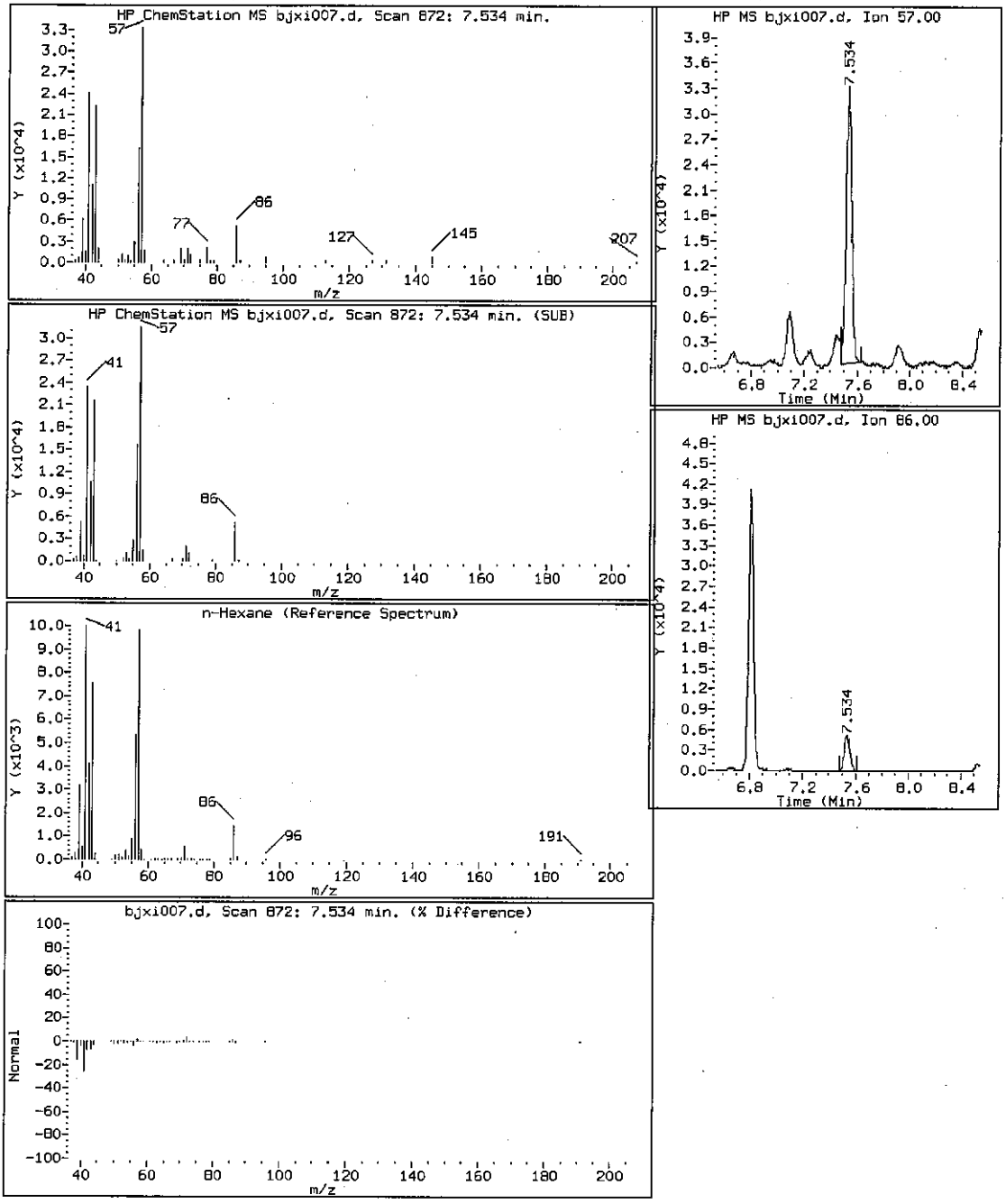
Lab Sample ID: 200-3885-3 Date: 25-FEB-2011 14:32

Client ID: SCA-021511-03 Instrument: B.i

Sample Info: 200-3885-A-3 Operator: pad

30 n-Hexane



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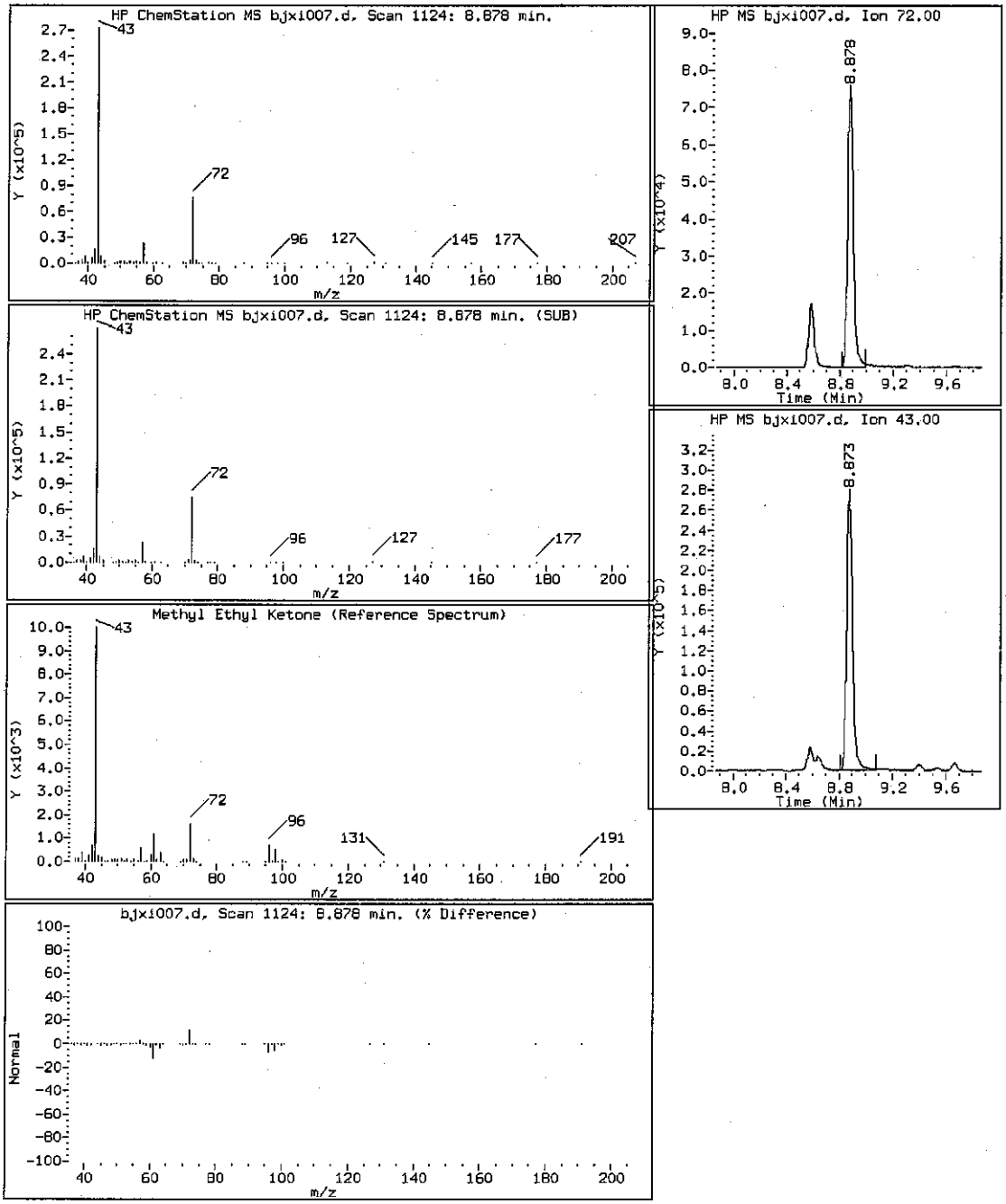
Lab Sample ID: 200-3885-3 Date: 25-FEB-2011 14:32

Client ID: SCA-021511-03 Instrument: B.i

Sample Info: 200-3885-A-3 Operator: pad

36 Methyl Ethyl Ketone



Data File: bjxi007.d

Lab Sample ID: 200-3885-3

Client ID: SCA-021511-03

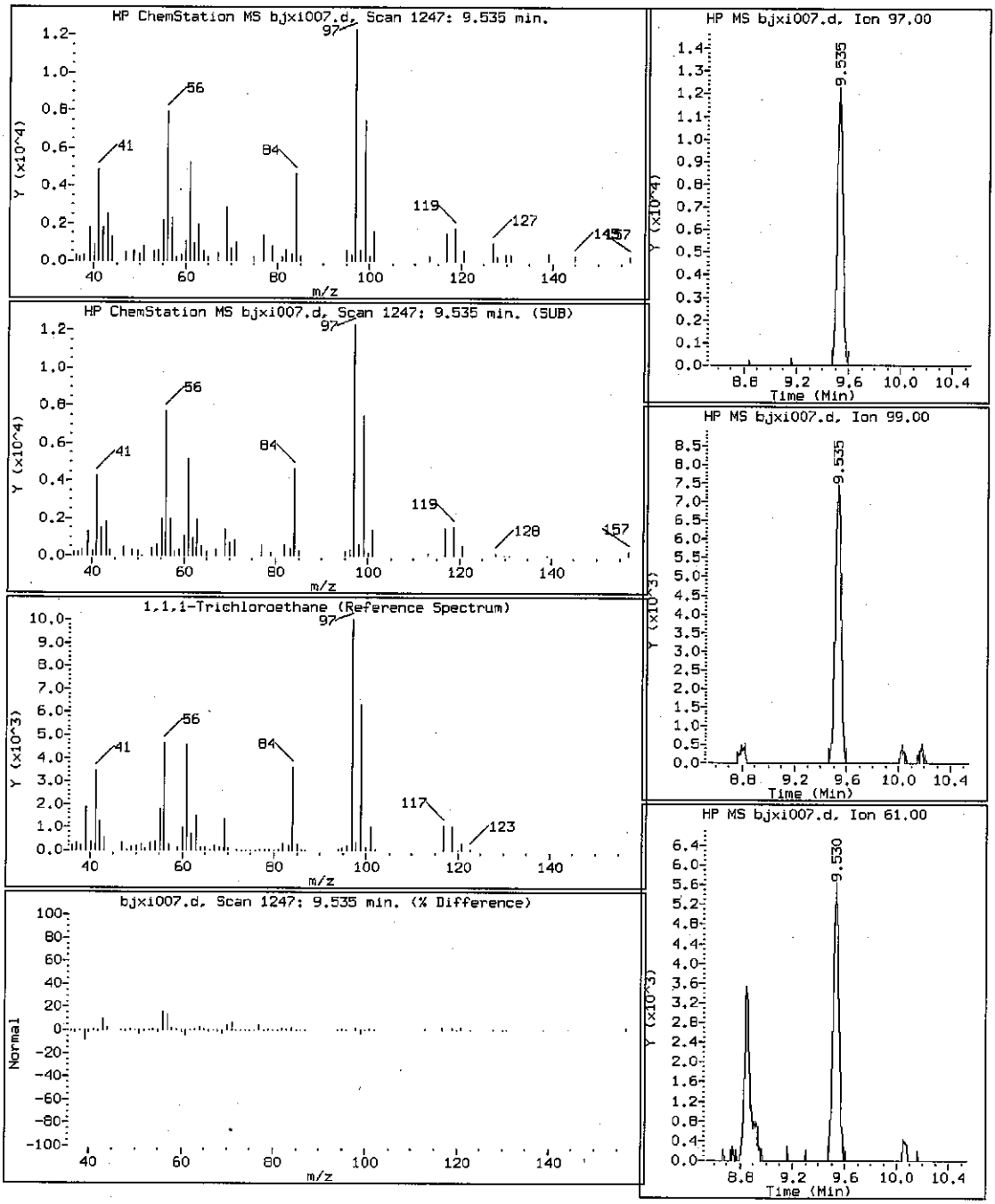
Sample Info: 200-3885-A-3

Date: 25-FEB-2011 14:32

Instrument: B.i

Operator: pad

41 1,1,1-Trichloroethane



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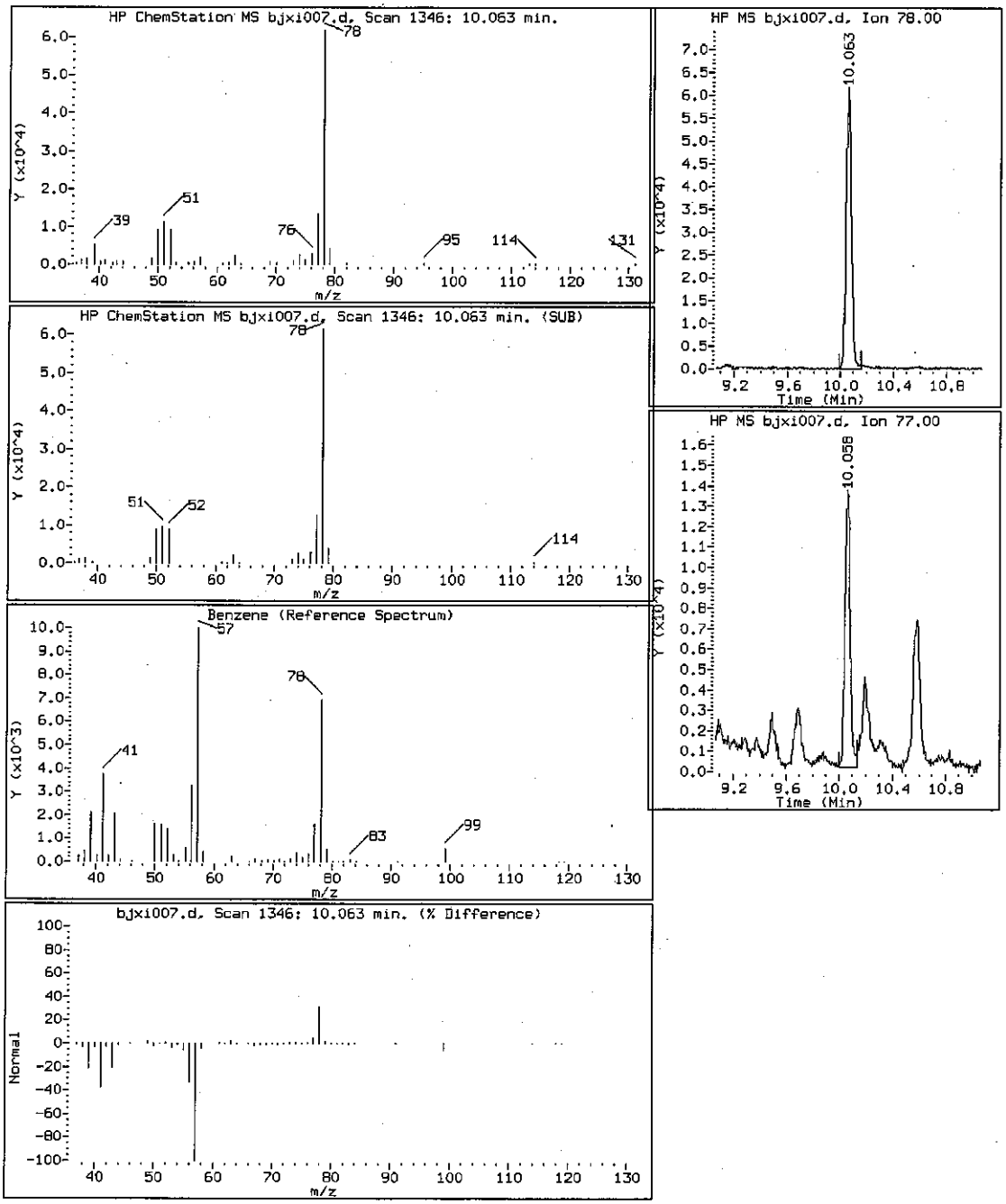
Lab Sample ID: 200-3885-3 Date: 25-FEB-2011 14:32

Client ID: SCA-021511-03 Instrument: B.i

Sample Info: 200-3885-A-3 Operator: pad

44 Benzene



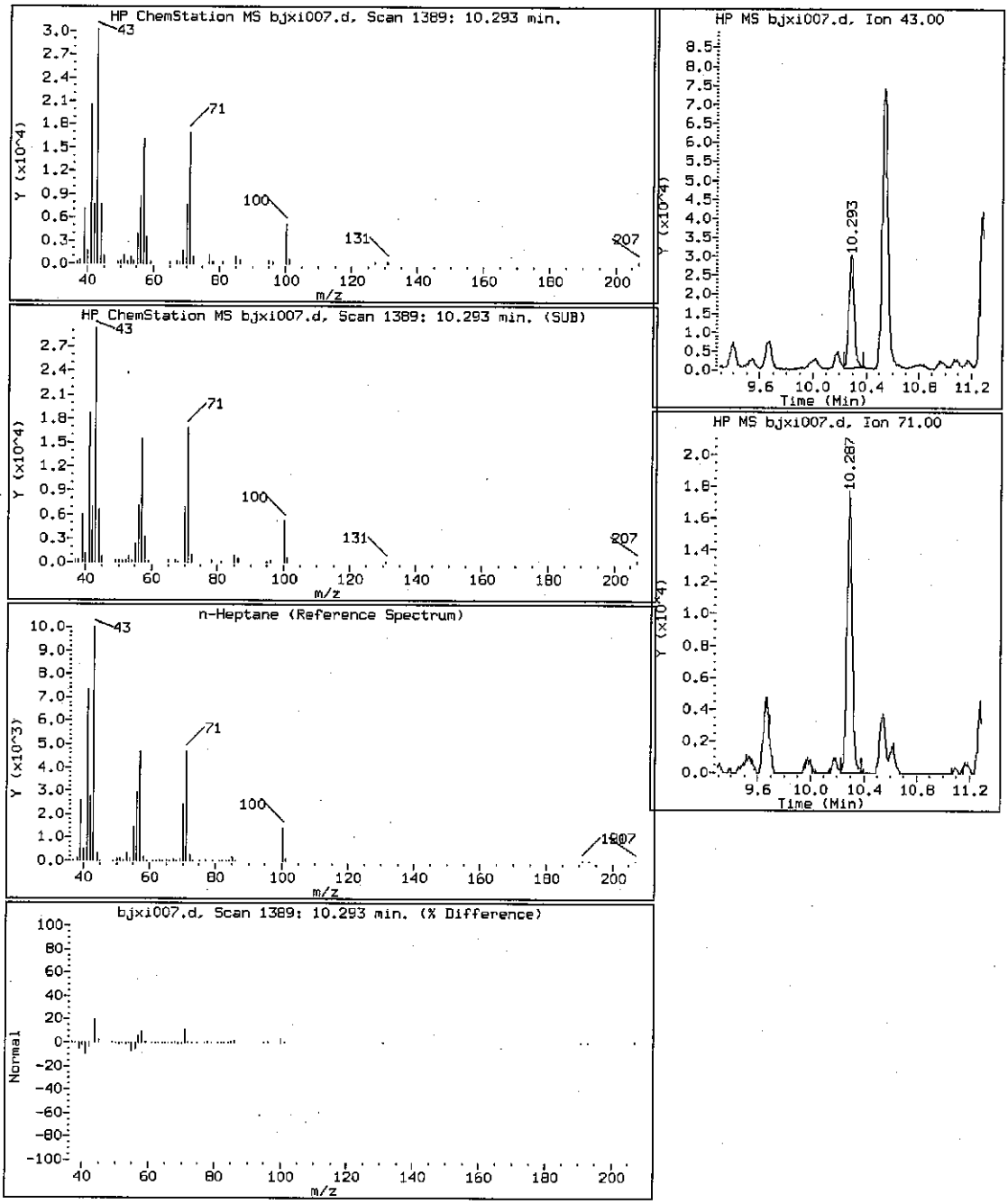
Data File: bjxi007.d

Lab Sample ID: 200-3885-3 Date: 25-FEB-2011 14:32

Client ID: SCA-021511-03 Instrument: B.i

Sample Info: 200-3885-A-3 Operator: pad

46 n-Heptane



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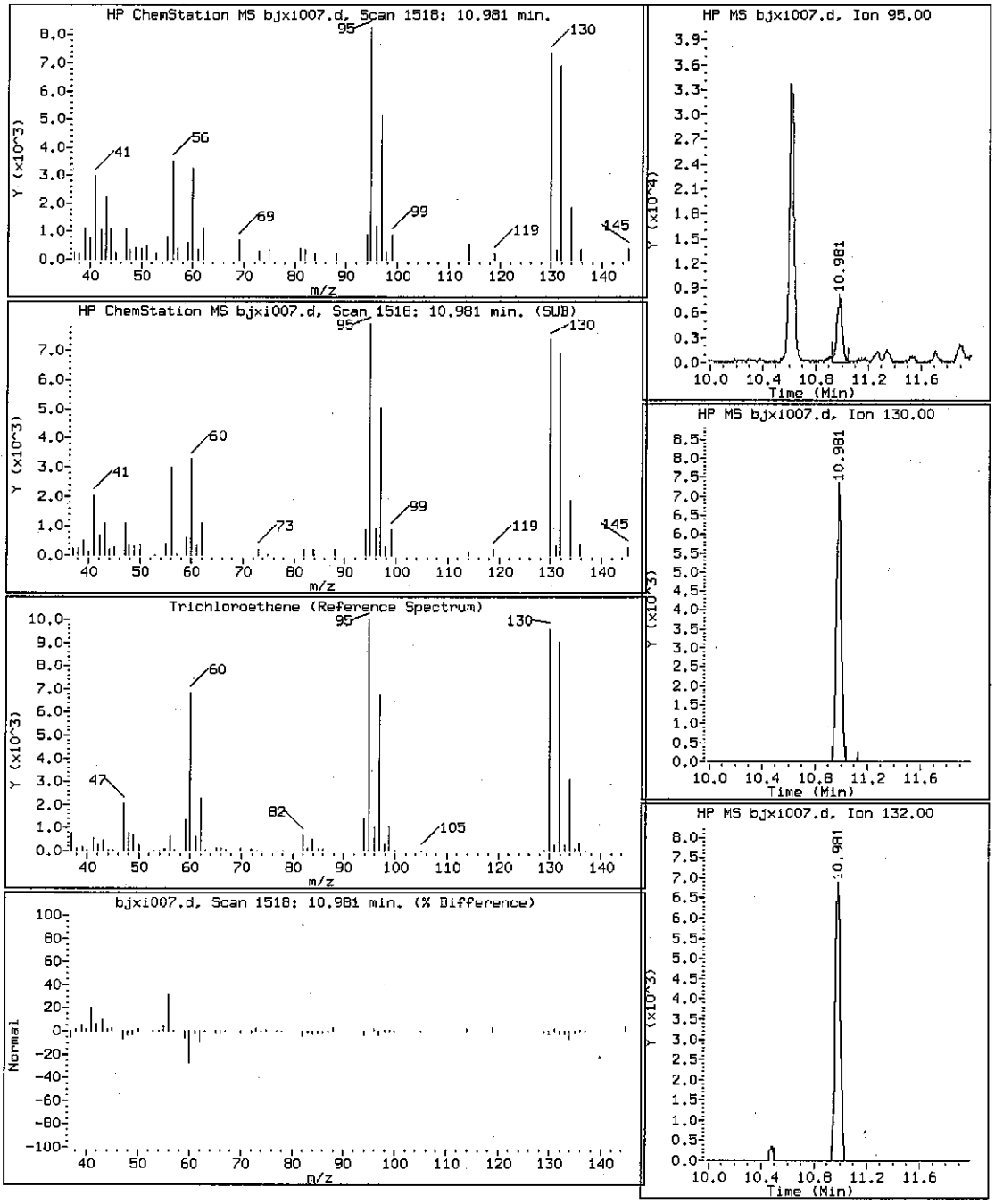
Client ID: SCA-021511-03 Instrument: B.i

Sample Info: 200-3885-A-3 Operator: pad

49 Trichloroethene



Data File: bjxi007.d

Lab Sample ID: 200-3885-3

Date: 25-FEB-2011 14:32

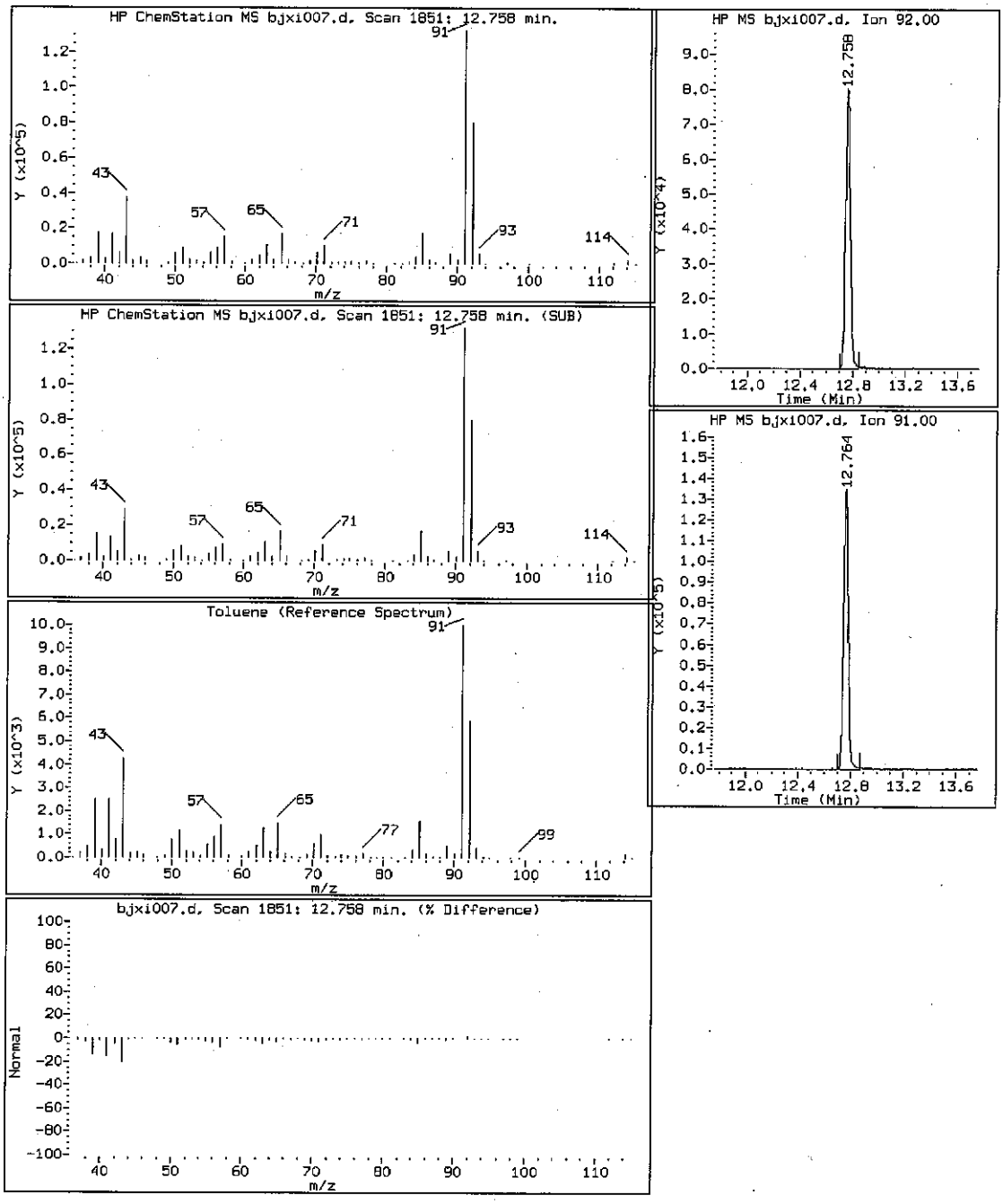
Client ID: SCA-021511-03

Instrument: B.i

Sample Info: 200-3885-A-3

Operator: pad

58 Toluene



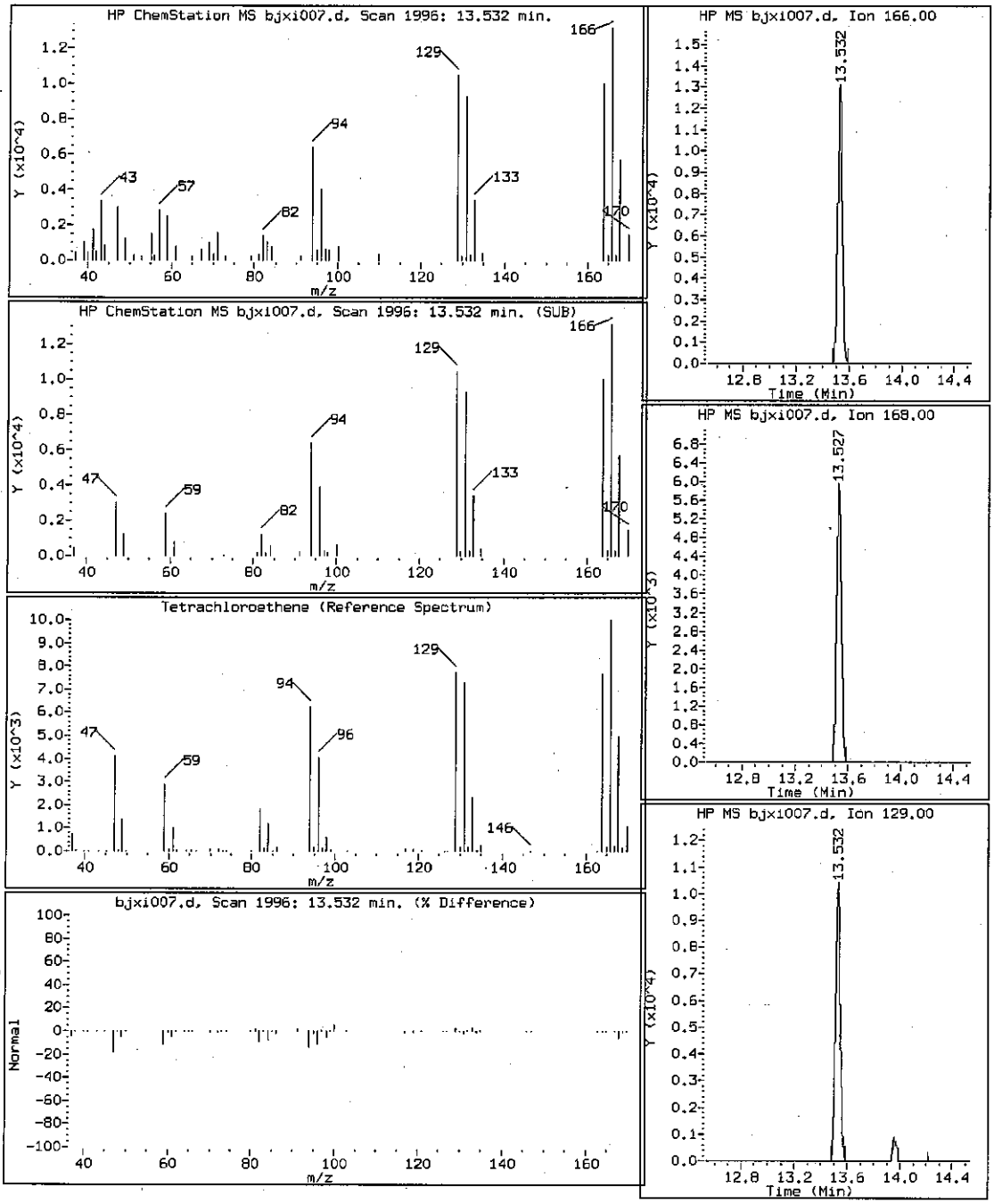
Data File: bjxi007.d

Lab Sample ID: 200-3885-3 Date: 25-FEB-2011 14:32

Client ID: SCA-021511-03 Instrument: B.i

Sample Info: 200-3885-A-3 Operator: pad

61 Tetrachloroethene



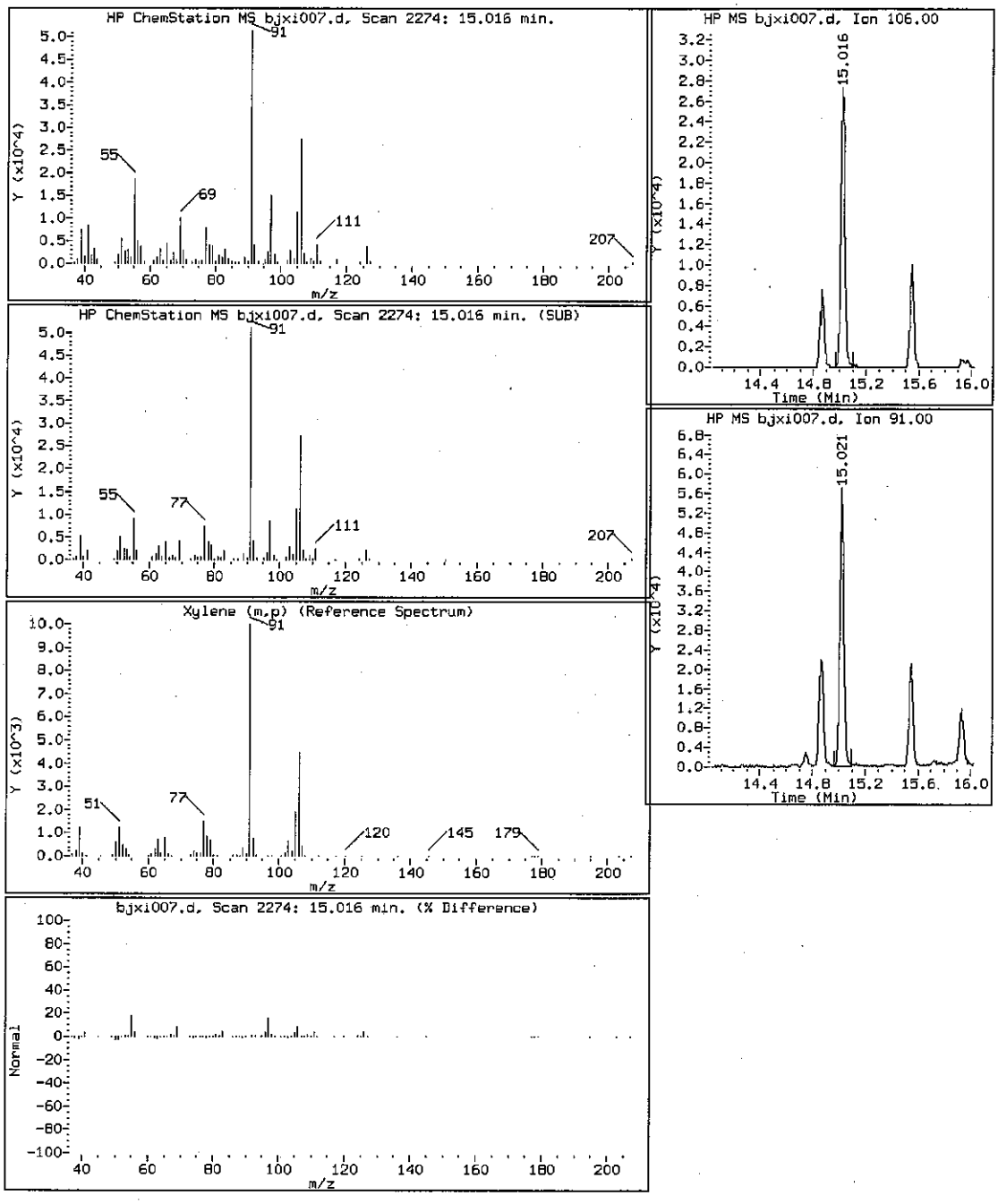
Data File: bjxi007.d

Lab Sample ID: 200-3885-3 Date: 25-FEB-2011 14:32

Client ID: SCA-021511-03 Instrument: B.i

Sample Info: 200-3885-A-3 Operator: pad

69 Xylene (m,p)



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Lab Sample ID: 200-3885-3 Date: 25-FEB-2011 14:32

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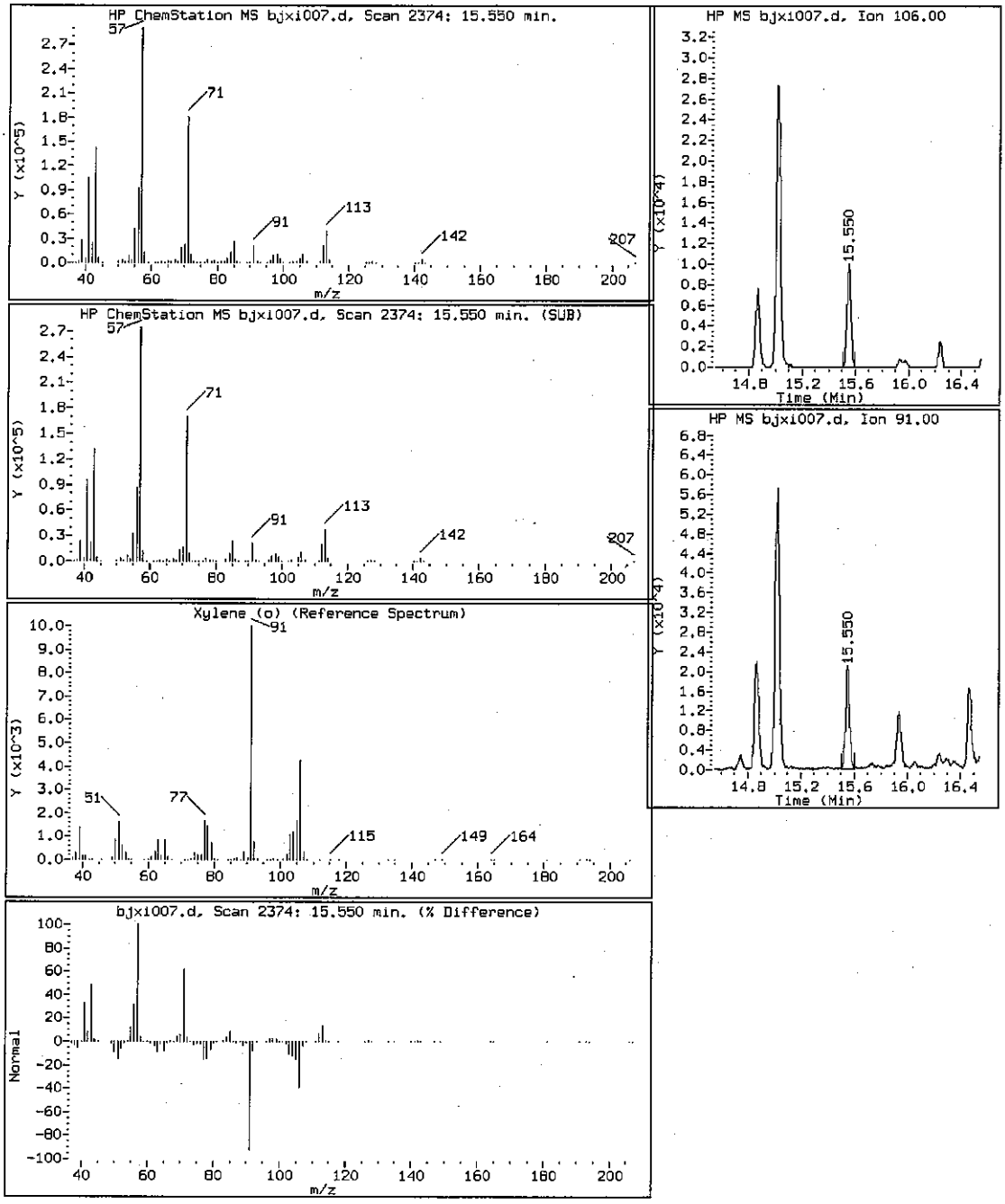
Sample Info: 200-3885-A-3 Operator: pad

71 Xylene (o)



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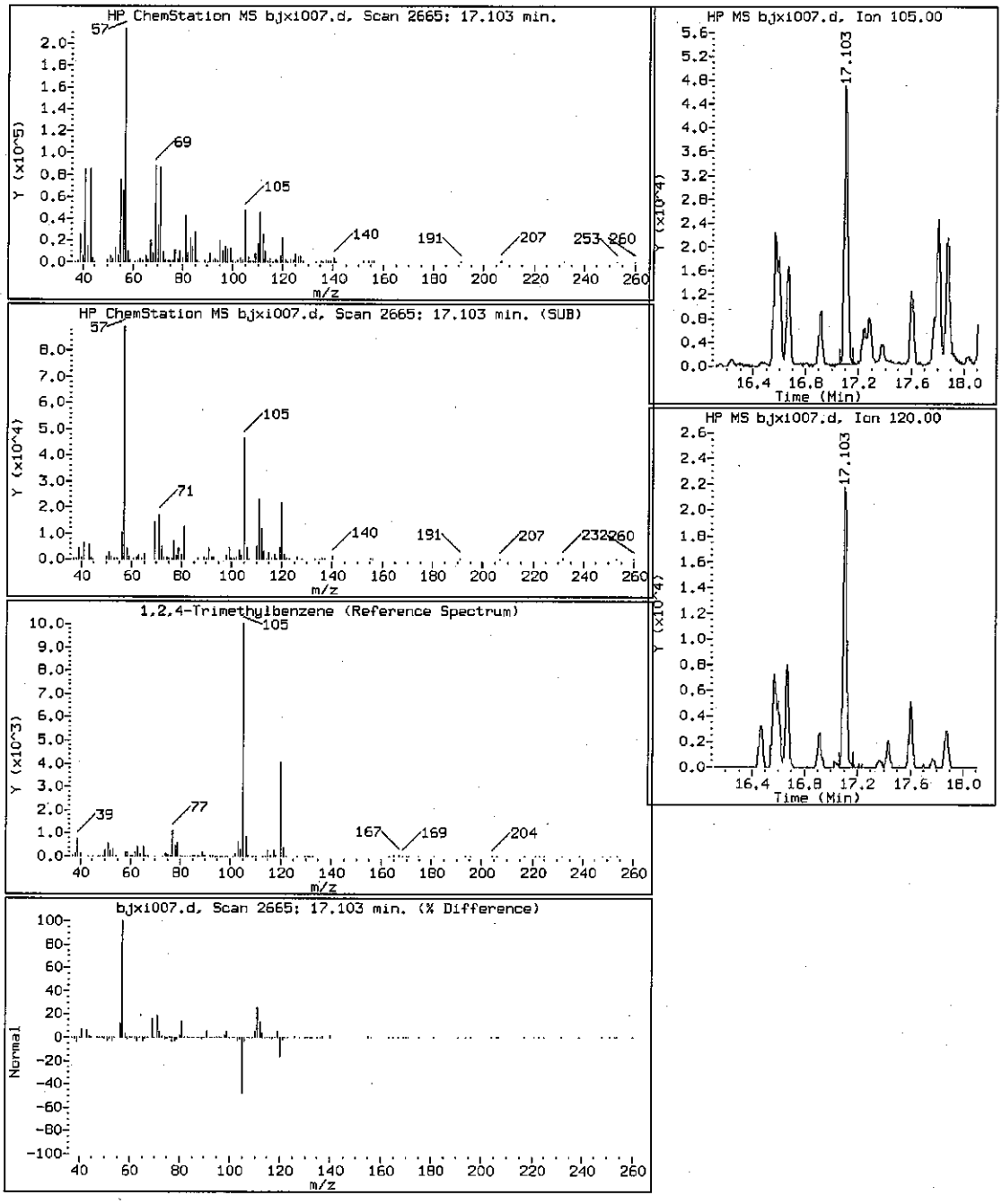
Sample Info: 200-3885-A-3 Operator: pad

84 1,2,4-Trimethylbenzene



Manual Integration Report

Data File: bjxi007.d
Lab Sample ID: 200-3885-3
Inj. Date and Time: 25-FEB-2011 14:32
Instrument ID: B.i
Client ID: SCA-021511-03
Compound: 43 2,2,4-Trimethylpentane
CAS #: 540-84-1
Report Date: 02/27/2011

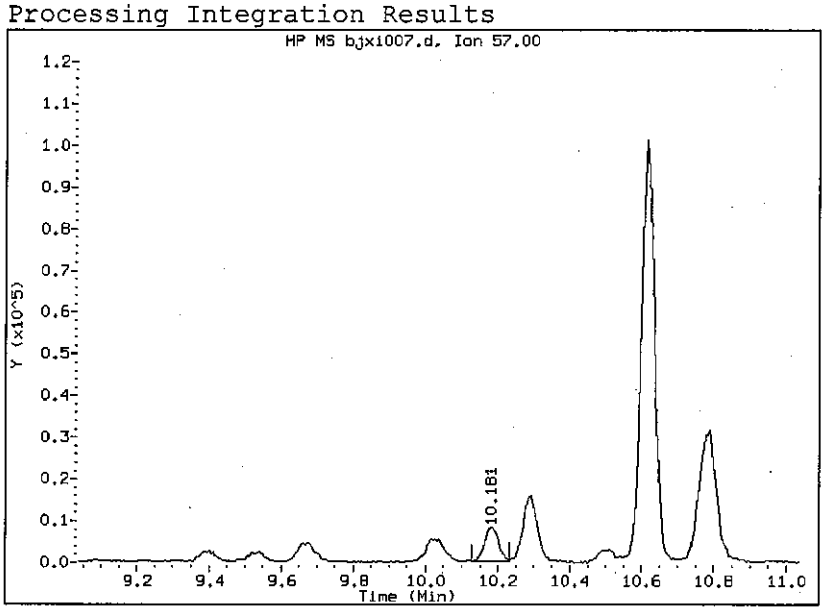
Processing Integration Results

RT: 10.18

Response: 23121

Amount: 0.065149

Conc: 0.081436



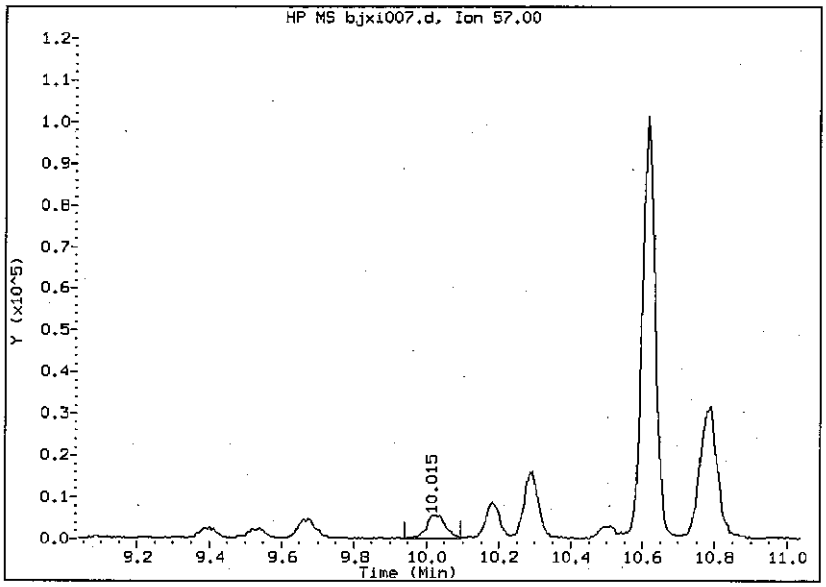
Manual Integration Results

RT: 10.02

Response: 21216

Amount: 0.059781

Conc: 0.074727



File Uploaded By: klp
Manual Integration Reason: Peak not found by the data system

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-04 Lab Sample ID: 200-3885-4

Matrix: Air Lab File ID: bjxi025.d

Analysis Method: TO-15 Date Collected: 02/15/2011 14:42

Sample wt/vol: 50(mL) Date Analyzed: 02/26/2011 06:32

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.0	U	2.0	0.048
75-45-6	Freon 22	86.47	2.0	U	2.0	0.14
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.80	U	0.80	0.048
74-87-3	Chloromethane	50.49	2.0	U	2.0	0.084
106-97-8	n-Butane	58.12	49		2.0	0.34
75-01-4	Vinyl chloride	62.50	0.80	U	0.80	0.10
106-99-0	1,3-Butadiene	54.09	0.80	U	0.80	0.11
74-83-9	Bromomethane	94.94	0.80	U	0.80	0.056
75-00-3	Chloroethane	64.52	2.0	U	2.0	0.40
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.80	U	0.80	0.20
75-69-4	Trichlorofluoromethane	137.37	1.0		0.80	0.20
76-13-1	Freon TF	187.38	5.4		0.80	0.20
75-35-4	1,1-Dichloroethene	96.94	0.80	U	0.80	0.060
67-64-1	Acetone	58.08	150		20	4.0
67-63-0	Isopropyl alcohol	60.10	20	U	20	0.17
75-15-0	Carbon disulfide	76.14	2.0	U	2.0	0.20
107-05-1	3-Chloropropene	76.53	2.0	U	2.0	0.12
75-09-2	Methylene Chloride	84.93	6.2		2.0	0.12
75-65-0	tert-Butyl alcohol	74.12	20	U	20	0.40
1634-04-4	Methyl tert-butyl ether	88.15	0.80	U	0.80	0.052
156-60-5	trans-1,2-Dichloroethene	96.94	0.80	U	0.80	0.20
110-54-3	n-Hexane	86.17	23		0.80	0.092
75-34-3	1,1-Dichloroethane	98.96	0.80	U	0.80	0.052
78-93-3	Methyl Ethyl Ketone	72.11	16		2.0	0.26
156-59-2	cis-1,2-Dichloroethene	96.94	0.80	U	0.80	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.80	U	0.80	0.40
67-66-3	Chloroform	119.38	0.80	U	0.80	0.20
109-99-9	Tetrahydrofuran	72.11	20	U	20	0.40
71-55-6	1,1,1-Trichloroethane	133.41	0.80	U	0.80	0.20
110-82-7	Cyclohexane	84.16	1.9		0.80	0.048
56-23-5	Carbon tetrachloride	153.81	0.80	U	0.80	0.20
540-84-1	2,2,4-Trimethylpentane	114.23	1.8		0.80	0.052
71-43-2	Benzene	78.11	5.1		0.80	0.20
107-06-2	1,2-Dichloroethane	98.96	0.80	U	0.80	0.060
142-82-5	n-Heptane	100.21	19		0.80	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-04 | Lab Sample ID: 200-3885-4

Matrix: Air | Lab File ID: bjxi025.d

Analysis Method: TO-15 | Date Collected: 02/15/2011 14:42

Sample wt/vol: 50(mL) | Date Analyzed: 02/26/2011 06:32

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 14275 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	0.80	U	0.80	0.056
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.40
78-87-5	1,2-Dichloropropane	112.99	0.80	U	0.80	0.064
123-91-1	1,4-Dioxane	88.11	20	U	20	0.14
75-27-4	Bromodichloromethane	163.83	0.80	U	0.80	0.20
10061-01-5	cis-1,3-Dichloropropene	110.97	0.80	U	0.80	0.20
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.26
108-88-3	Toluene	92.14	14		0.80	0.20
10061-02-6	trans-1,3-Dichloropropene	110.97	0.80	U	0.80	0.26
79-00-5	1,1,2-Trichloroethane	133.41	0.80	U	0.80	0.20
127-18-4	Tetrachloroethene	165.83	0.80	U	0.80	0.068
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.11
124-48-1	Dibromochloromethane	208.29	0.80	U	0.80	0.20
106-93-4	1,2-Dibromoethane	187.87	0.80	U	0.80	0.048
108-90-7	Chlorobenzene	112.30	0.92		0.80	0.20
100-41-4	Ethylbenzene	106.17	0.80	U	0.80	0.056
179601-23-1	m,p-Xylene	106.17	2.4		2.0	0.092
95-47-6	Xylene, o-	106.17	0.80	U	0.80	0.20
1330-20-7	Xylene (total)	106.17	3.0		0.80	0.60
100-42-5	Styrene	104.15	0.80	U	0.80	0.20
75-25-2	Bromoform	252.75	0.80	U	0.80	0.20
98-82-8	Cumene	120.19	0.80	U	0.80	0.20
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.80	U	0.80	0.20
103-65-1	n-Propylbenzene	120.19	0.80	U	0.80	0.26
622-96-8	4-Ethyltoluene	120.20	3.3		0.80	0.26
108-67-8	1,3,5-Trimethylbenzene	120.20	6.7		0.80	0.26
95-49-8	2-Chlorotoluene	126.59	0.80	U	0.80	0.26
98-06-6	tert-Butylbenzene	134.22	0.80	U	0.80	0.20
95-63-6	1,2,4-Trimethylbenzene	120.20	10		0.80	0.26
135-98-8	sec-Butylbenzene	134.22	0.80	U	0.80	0.088
99-87-6	4-Isopropyltoluene	134.22	20		0.80	0.052
541-73-1	1,3-Dichlorobenzene	147.00	0.80	U	0.80	0.072
106-46-7	1,4-Dichlorobenzene	147.00	0.80	U	0.80	0.084
100-44-7	Benzyl chloride	126.58	0.80	U	0.80	0.088
104-51-8	n-Butylbenzene	134.22	0.80	U	0.80	0.26

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-04 Lab Sample ID: 200-3885-4

Matrix: Air Lab File ID: bjxi025.d

Analysis Method: TO-15 Date Collected: 02/15/2011 14:42

Sample wt/vol: 50(mL) Date Analyzed: 02/26/2011 06:32

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	0.80	U	0.80	0.068
120-82-1	1,2,4-Trichlorobenzene	181.45	2.0	U	2.0	0.13
87-68-3	Hexachlorobutadiene	260.76	0.80	U	0.80	0.088
91-20-3	Naphthalene	128.17	2.0	U	2.0	0.16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-04 | Lab Sample ID: 200-3885-4

Matrix: Air | Lab File ID: bjxi025.d

Analysis Method: TO-15 | Date Collected: 02/15/2011 14:42

Sample wt/vol: 50(mL) | Date Analyzed: 02/26/2011 06:32

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 14275 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	9.9	U	9.9	0.24
75-45-6	Freon 22	86.47	7.1	U	7.1	0.48
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	5.6	U	5.6	0.34
74-87-3	Chloromethane	50.49	4.1	U	4.1	0.17
106-97-8	n-Butane	58.12	120		4.8	0.81
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	0.26
106-99-0	1,3-Butadiene	54.09	1.8	U	1.8	0.24
74-83-9	Bromomethane	94.94	3.1	U	3.1	0.22
75-00-3	Chloroethane	64.52	5.3	U	5.3	1.1
593-60-2	Bromoethene(Vinyl Bromide)	106.96	3.5	U	3.5	0.87
75-69-4	Trichlorofluoromethane	137.37	5.8		4.5	1.1
76-13-1	Freon TF	187.38	42		6.1	1.5
75-35-4	1,1-Dichloroethene	96.94	3.2	U	3.2	0.24
67-64-1	Acetone	58.08	350		48	9.4
67-63-0	Isopropyl alcohol	60.10	49	U	49	0.42
75-15-0	Carbon disulfide	76.14	6.2	U	6.2	0.62
107-05-1	3-Chloropropene	76.53	6.3	U	6.3	0.36
75-09-2	Methylene Chloride	84.93	21		6.9	0.42
75-65-0	tert-Butyl alcohol	74.12	61	U	61	1.2
1634-04-4	Methyl tert-butyl ether	88.15	2.9	U	2.9	0.19
156-60-5	trans-1,2-Dichloroethene	96.94	3.2	U	3.2	0.79
110-54-3	n-Hexane	86.17	81		2.8	0.32
75-34-3	1,1-Dichloroethane	98.96	3.2	U	3.2	0.21
78-93-3	Methyl Ethyl Ketone	72.11	46		5.9	0.76
156-59-2	cis-1,2-Dichloroethene	96.94	3.2	U	3.2	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	3.2	U	3.2	1.6
67-66-3	Chloroform	119.38	3.9	U	3.9	0.98
109-99-9	Tetrahydrofuran	72.11	59	U	59	1.2
71-55-6	1,1,1-Trichloroethane	133.41	4.4	U	4.4	1.1
110-82-7	Cyclohexane	84.16	6.7		2.8	0.17
56-23-5	Carbon tetrachloride	153.81	5.0	U	5.0	1.3
540-84-1	2,2,4-Trimethylpentane	114.23	8.3		3.7	0.24
71-43-2	Benzene	78.11	16		2.6	0.64
107-06-2	1,2-Dichloroethane	98.96	3.2	U	3.2	0.24
142-82-5	n-Heptane	100.21	77		3.3	0.44

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-04 Lab Sample ID: 200-3885-4

Matrix: Air Lab File ID: bjxi025.d

Analysis Method: TO-15 Date Collected: 02/15/2011 14:42

Sample wt/vol: 50(mL) Date Analyzed: 02/26/2011 06:32

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	4.3	U	4.3	0.30
80-62-6	Methyl methacrylate	100.12	8.2	U	8.2	1.6
78-87-5	1,2-Dichloropropane	112.99	3.7	U	3.7	0.30
123-91-1	1,4-Dioxane	88.11	72	U	72	0.50
75-27-4	Bromodichloromethane	163.83	5.4	U	5.4	1.3
10061-01-5	cis-1,3-Dichloropropene	110.97	3.6	U	3.6	0.91
108-10-1	methyl isobutyl ketone	100.16	8.2	U	8.2	1.0
108-88-3	Toluene	92.14	52		3.0	0.75
10061-02-6	trans-1,3-Dichloropropene	110.97	3.6	U	3.6	1.2
79-00-5	1,1,2-Trichloroethane	133.41	4.4	U	4.4	1.1
127-18-4	Tetrachloroethene	165.83	5.4	U	5.4	0.46
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	8.2	U	8.2	0.46
124-48-1	Dibromochloromethane	208.29	6.8	U	6.8	1.7
106-93-4	1,2-Dibromoethane	187.87	6.1	U	6.1	0.37
108-90-7	Chlorobenzene	112.30	4.2		3.7	0.92
100-41-4	Ethylbenzene	106.17	3.5	U	3.5	0.24
179601-23-1	m,p-Xylene	106.17	10		8.7	0.40
95-47-6	Xylene, o-	106.17	3.5	U	3.5	0.87
1330-20-7	Xylene (total)	106.17	13		3.5	2.6
100-42-5	Styrene	104.15	3.4	U	3.4	0.85
75-25-2	Bromoform	252.75	8.3	U	8.3	2.1
98-82-8	Cumene	120.19	3.9	U	3.9	0.98
79-34-5	1,1,2,2-Tetrachloroethane	167.85	5.5	U	5.5	1.4
103-65-1	n-Propylbenzene	120.19	3.9	U	3.9	1.3
622-96-8	4-Ethyltoluene	120.20	16		3.9	1.3
108-67-8	1,3,5-Trimethylbenzene	120.20	33		3.9	1.3
95-49-8	2-Chlorotoluene	126.59	4.1	U	4.1	1.3
98-06-6	tert-Butylbenzene	134.22	4.4	U	4.4	1.1
95-63-6	1,2,4-Trimethylbenzene	120.20	49		3.9	1.3
135-98-8	sec-Butylbenzene	134.22	4.4	U	4.4	0.48
99-87-6	4-Isopropyltoluene	134.22	110		4.4	0.29
541-73-1	1,3-Dichlorobenzene	147.00	4.8	U	4.8	0.43
106-46-7	1,4-Dichlorobenzene	147.00	4.8	U	4.8	0.51
100-44-7	Benzyl chloride	126.58	4.1	U	4.1	0.46
104-51-8	n-Butylbenzene	134.22	4.4	U	4.4	1.4

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: SCA-021511-04 Lab Sample ID: 200-3885-4

Matrix: Air Lab File ID: bjxi025.d

Analysis Method: TO-15 Date Collected: 02/15/2011 14:42

Sample wt/vol: 50(mL) Date Analyzed: 02/26/2011 06:32

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	4.8	U	4.8	0.41
120-82-1	1,2,4-Trichlorobenzene	181.45	15	U	15	0.95
87-68-3	Hexachlorobutadiene	260.76	8.5	U	8.5	0.94
91-20-3	Naphthalene	128.17	10	U	10	0.86

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-3885-4
Client Smp ID: SCA-021511-04
Inj Date : 26-FEB-2011 06:32
Operator : pad Inst ID: B.i
Smp Info : 200-3885-A-4
Misc Info : 50,4, all74
Comment :
Method : /chem/B.i/Bsvr.p/bjxito15.b/to15v5.m
Meth Date : 27-Feb-2011 09:51 klp Quant Type: ISTD
Cal Date : 09-FEB-2011 20:19 Cal File: bjx011.d
Als bottle: 8
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: all74.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	4.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	50.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
2 Dichlorodifluoromethane	85	3.040	3.045	(0.330)	18171	0.23478	0.94(a)
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	3.488	3.488	(0.379)	394479	12.3190	49(Q)
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	4.796	4.806	(0.521)	33017	0.25806	1.0
17 1,1,2-Trichloro-1,2,2-trifluo	101	5.794	5.804	(0.629)	122577	1.35791	5.4
19 1,1-Dichloroethene	96	Compound Not Detected.					
20 Acetone	43	6.045	6.055	(0.656)	2578445	36.3921	150
21 Carbon disulfide	76	Compound Not Detected.					

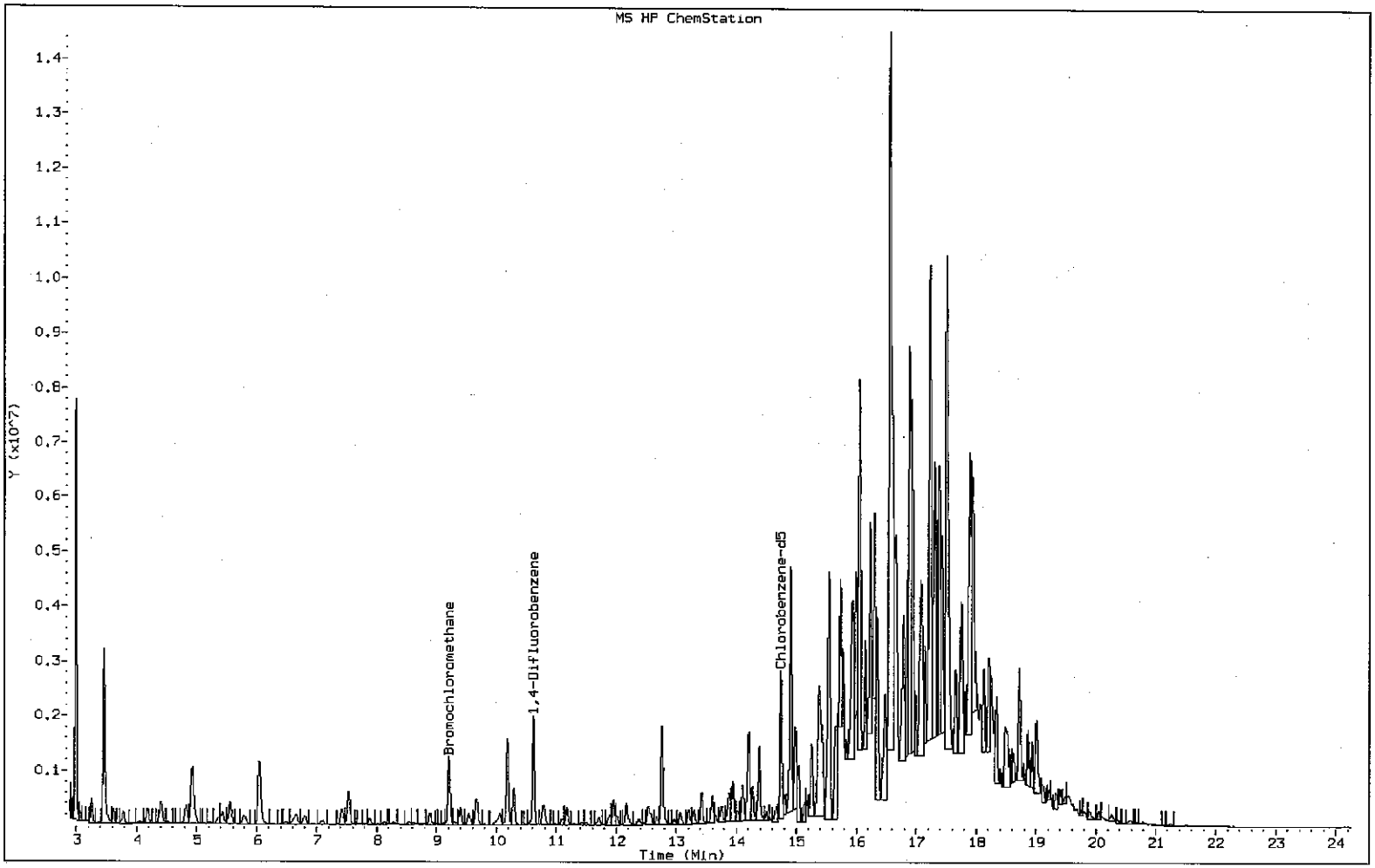
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	6.808	6.813	(0.739)	81908	1.53971	6.2
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	7.534	7.544	(0.818)	479548	5.73679	23
	31 1,1-Dichloroethane	63	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61				5669	0.11205	0.45(a)
	34 1,2-Dichloroethene (cis)	96	8.852	8.852	(0.961)	5669	0.11205	0.45(a)
	36 Methyl Ethyl Ketone	72	8.889	8.868	(0.965)	98093	3.94080	16(Q)
*	37 Bromochloromethane	128	9.209	9.215	(1.000)	407254	10.0000	(Q)
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	9.546	9.551	(0.899)	35345	0.48345	1.9(Q)
	41 1,1,1-Trichloroethane	97	9.535	9.540	(0.898)	9046	0.08603	0.34(aM)
	42 Carbon tetrachloride	117	9.732	9.743	(0.917)	6080	0.05922	0.24(a)
	43 2,2,4-Trimethylpentane	57	10.031	10.037	(0.885)	111923	0.44601	1.8(QMH)
	44 Benzene	78	10.063	10.069	(0.948)	203981	1.28036	5.1
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	10.287	10.293	(0.969)	426030	4.70591	19
*	47 1,4-Difluorobenzene	114	10.618	10.624	(1.000)	2044752	10.0000	
	49 Trichloroethene	95	10.976	10.986	(1.034)	12841	0.19023	0.76(aQ)
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	11.419	11.419	(1.075)	9849	0.18038	0.72(aQ)
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	12.758	12.764	(0.865)	403092	3.45307	14
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	13.527	13.532	(0.917)	14303	0.17443	0.70(a)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.749	14.754	(1.000)	1885755	10.0000	
	66 Chlorobenzene	112	14.792	14.792	(1.003)	35905	0.23089	0.92(M)
	68 Ethylbenzene	91	14.866	14.872	(1.008)	40812	0.15950	0.64(a)
	69 Xylene (m,p)	106	15.021	15.027	(1.018)	58008	0.58819	2.4
M	70 Xylenes, Total	106				73211	0.74870	3.0
	71 Xylene (o)	106	15.555	15.550	(1.055)	15203	0.16051	0.64(aQH)
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
79 4-Ethyltoluene	105	16.596	16.601	(1.125)	236748	0.81569	3.3(M)
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	16.670	16.676	(1.130)	400231	1.68240	6.7
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	17.108	17.108	(1.160)	589788	2.50018	10
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	17.433	17.439	(1.182)	1408375	5.07026	20
87 1,3-Dichlorobenzene	146	17.503	17.498	(1.187)	10239	0.06699	0.27(aQH)
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	18.058	18.058	(1.224)	18641	0.12796	0.51(aQH)
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File:	bjxi025.d	Date:	26-FEB-2011 06:32
Client ID:	SCA-021511-04	Instrument:	B.i
Operator:	pad	Inj Vol:	100.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-3885-A-4		
Lab Sample ID:	200-3885-4		



Data File: bjxi025.d

Lab Sample ID: 200-3885-4

Client ID: SCA-021511-04

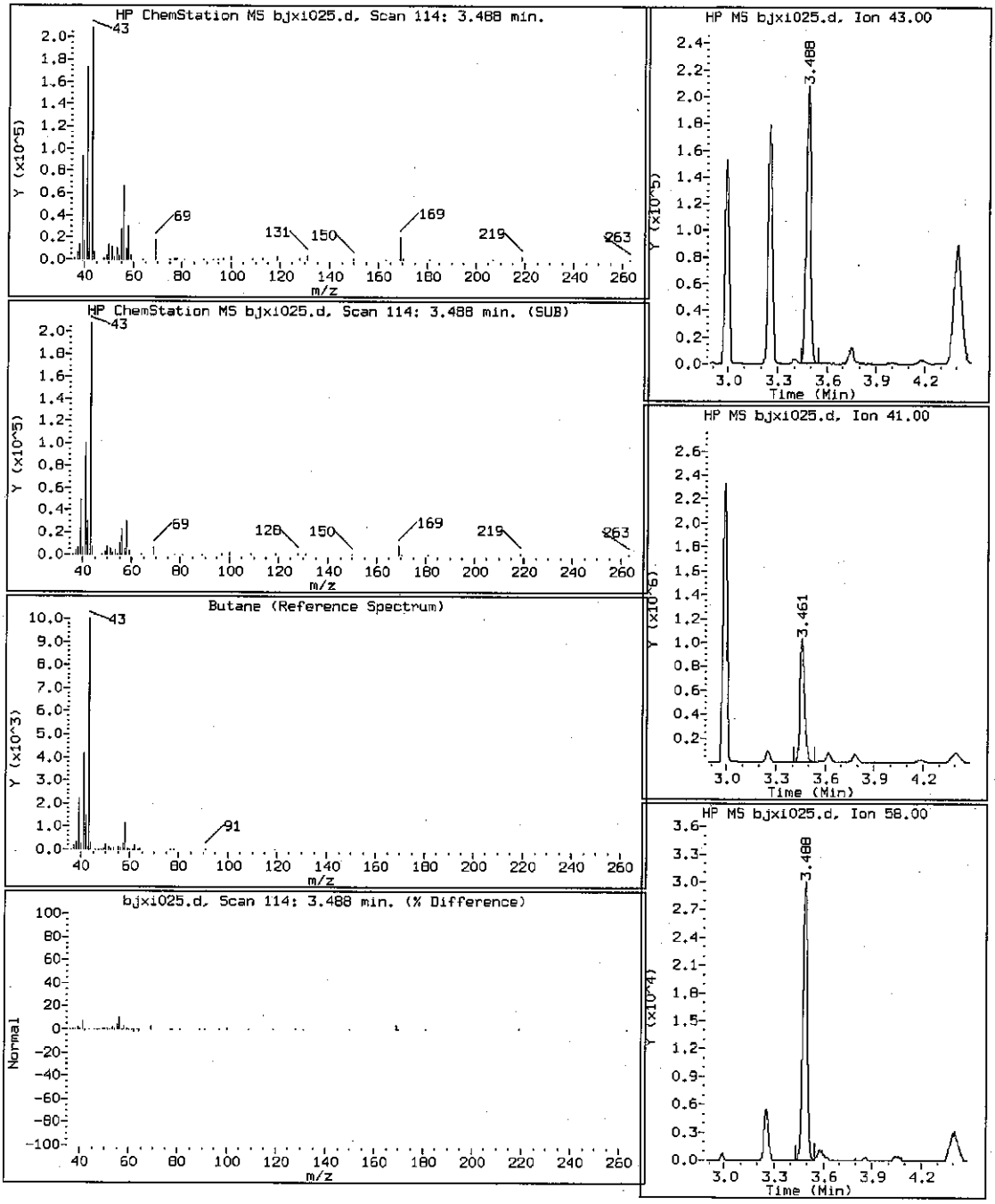
Sample Info: 200-3885-A-4

Date: 26-FEB-2011 06:32

Instrument: B.i

Operator: pad

6 Butane



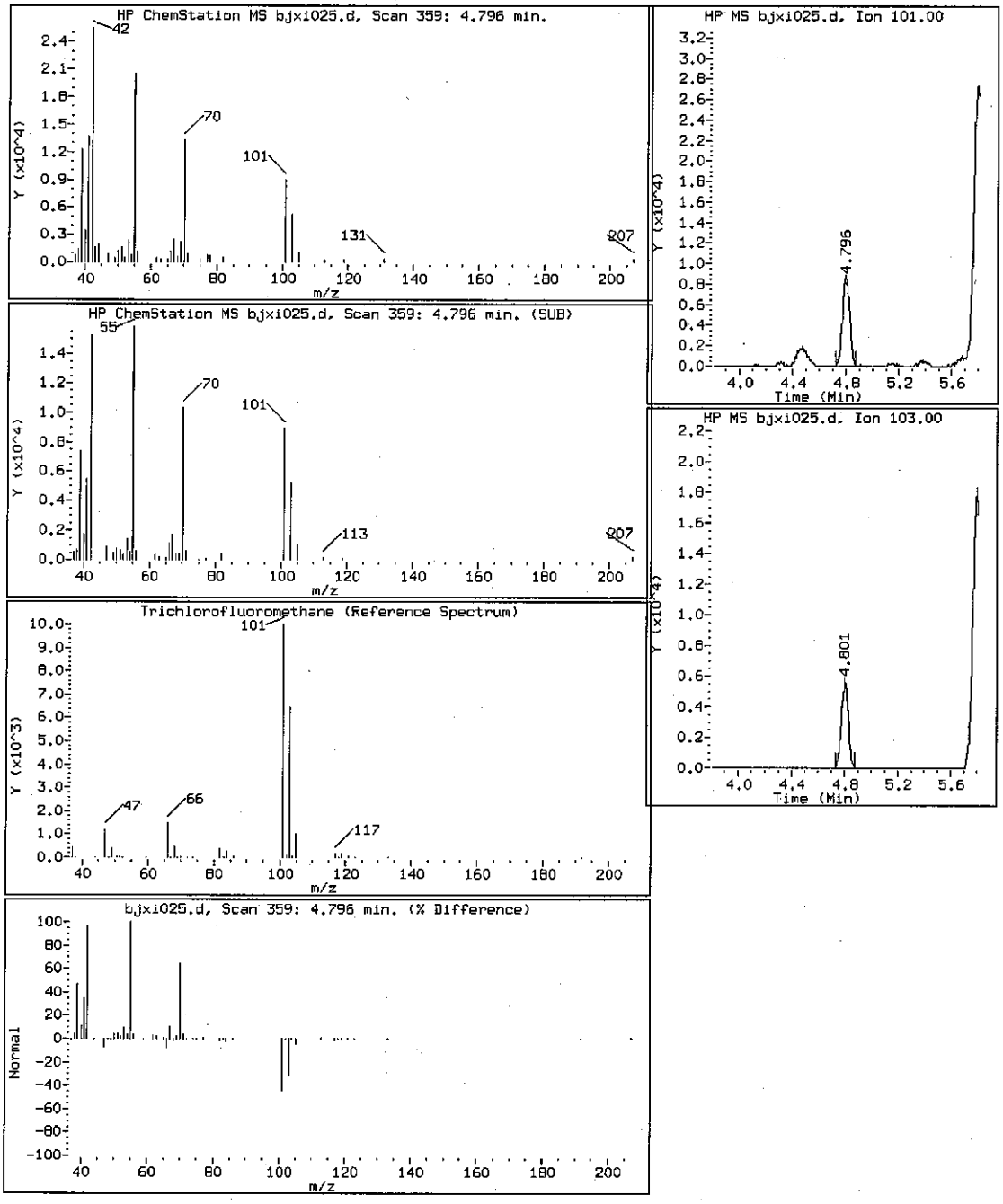
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

13 Trichlorofluoromethane



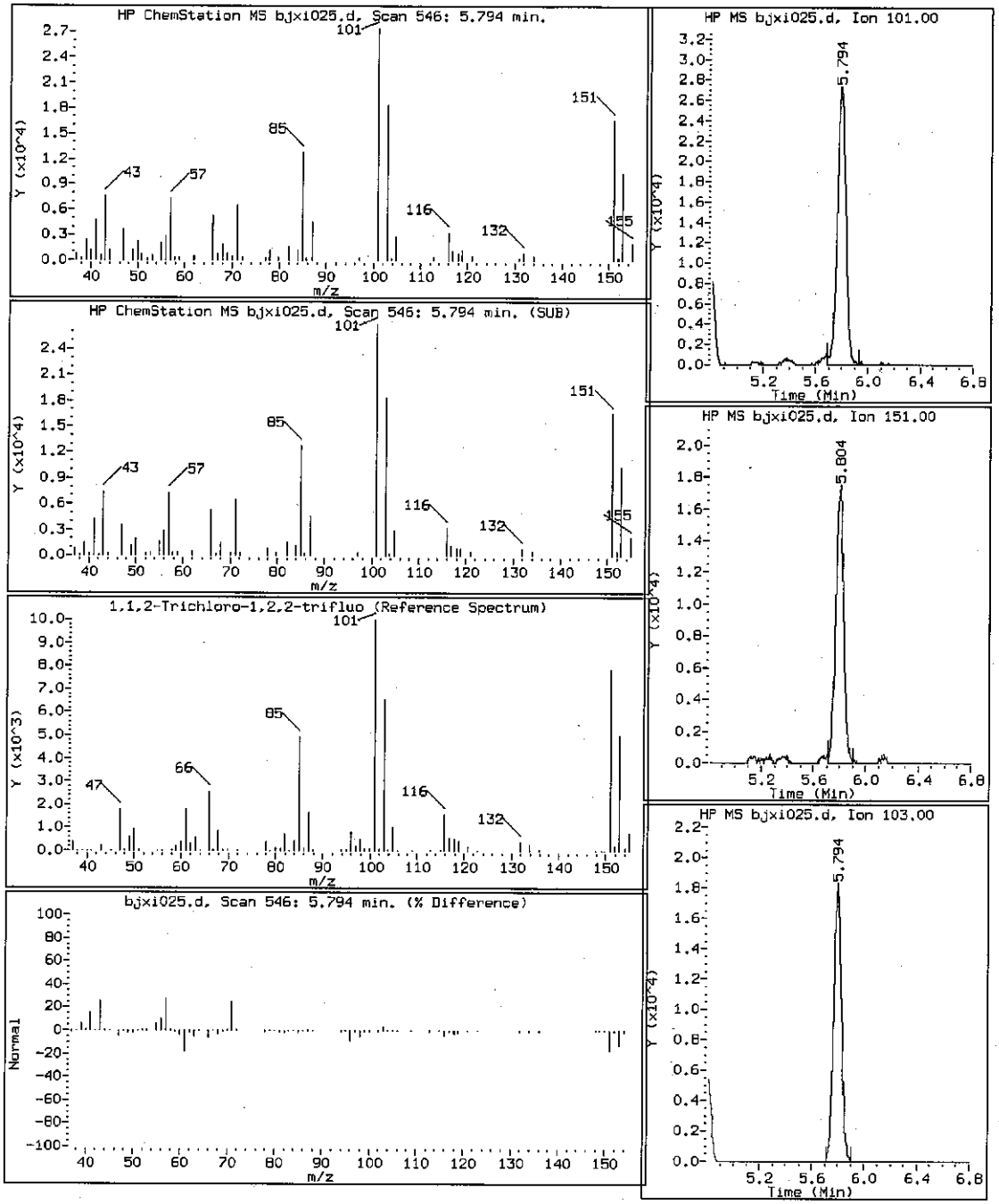
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

17 1,1,2-Trichloro-1,2,2-trifluo



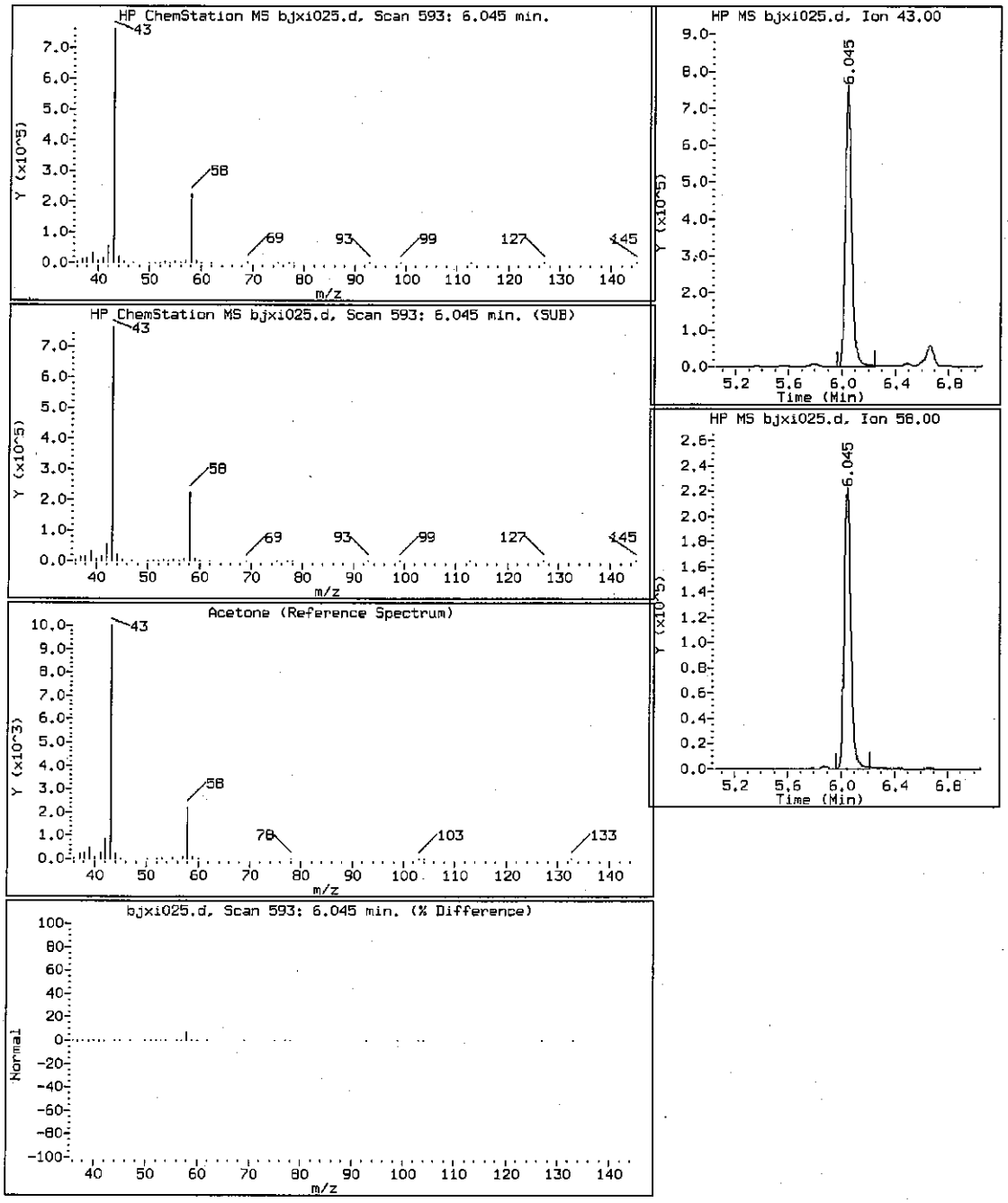
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

20 Acetone



Data File: bjxi025.d

Lab Sample ID: 200-3885-4

Date: 26-FEB-2011 06:32

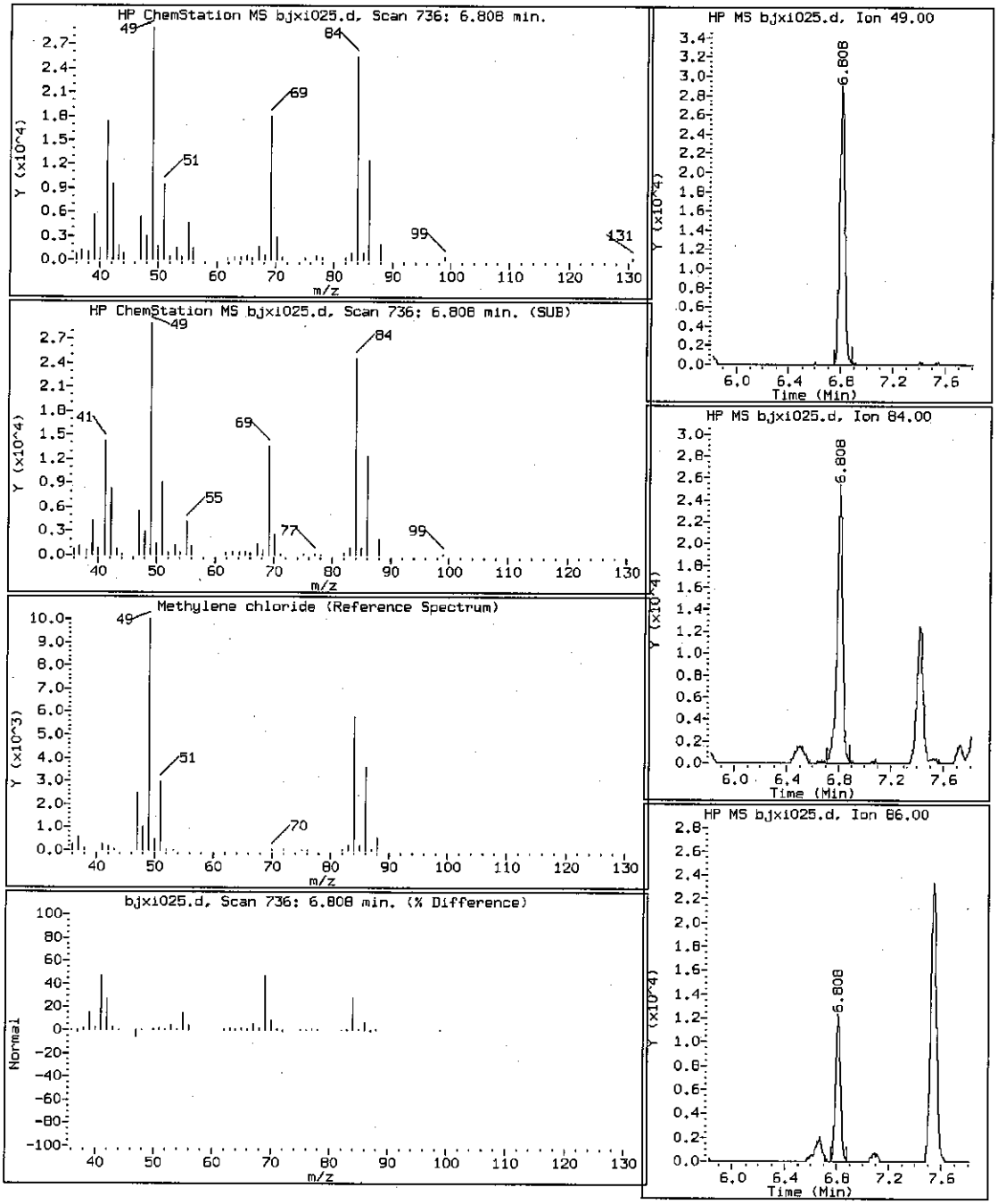
Client ID: SCA-021511-04

Instrument: B.i

Sample Info: 200-3885-A-4

Operator: pad

25 Methylene chloride



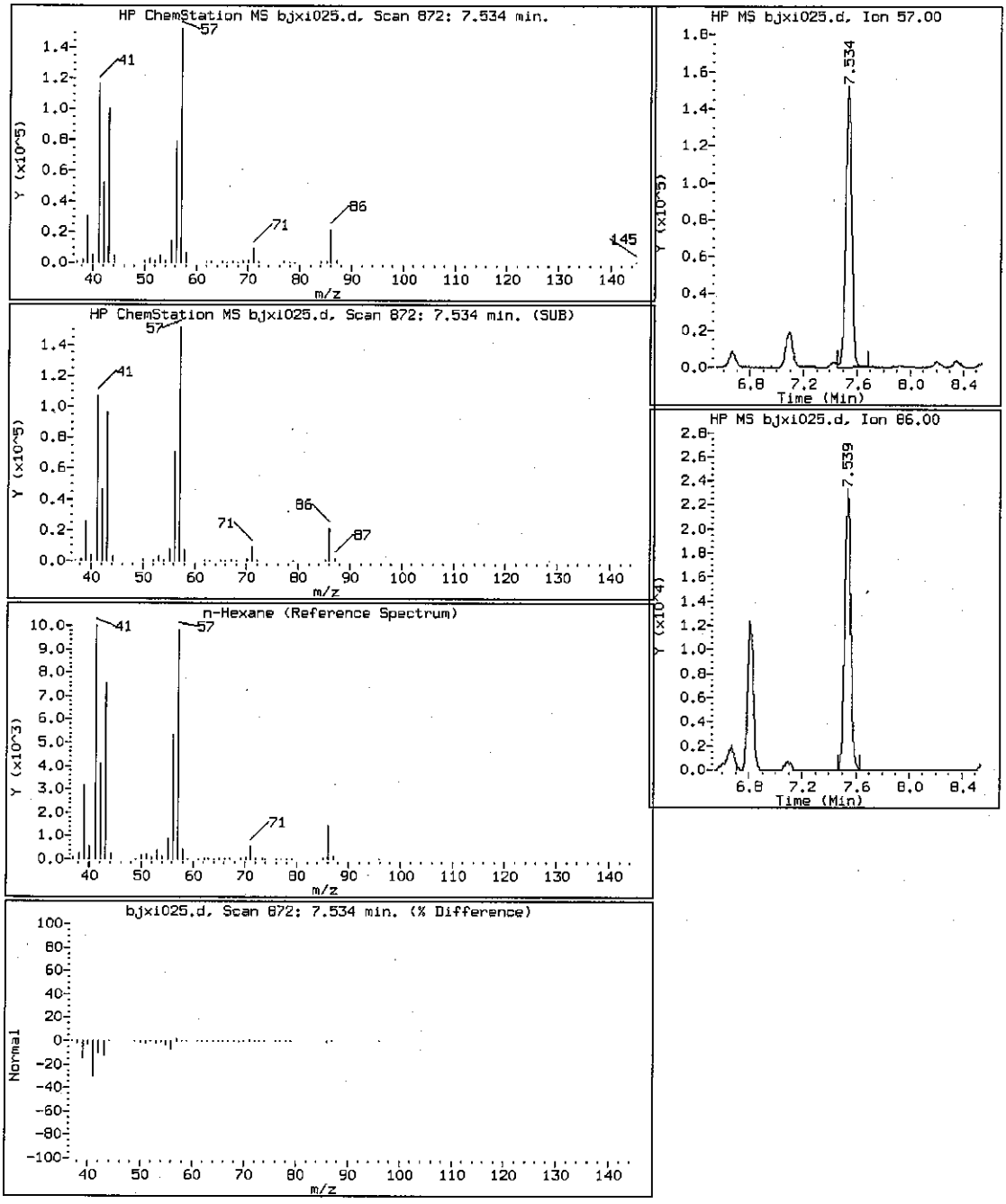
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

30 n-Hexane



Data File: bjxi025.d

Lab Sample ID: 200-3885-4

Date: 26-FEB-2011 06:32

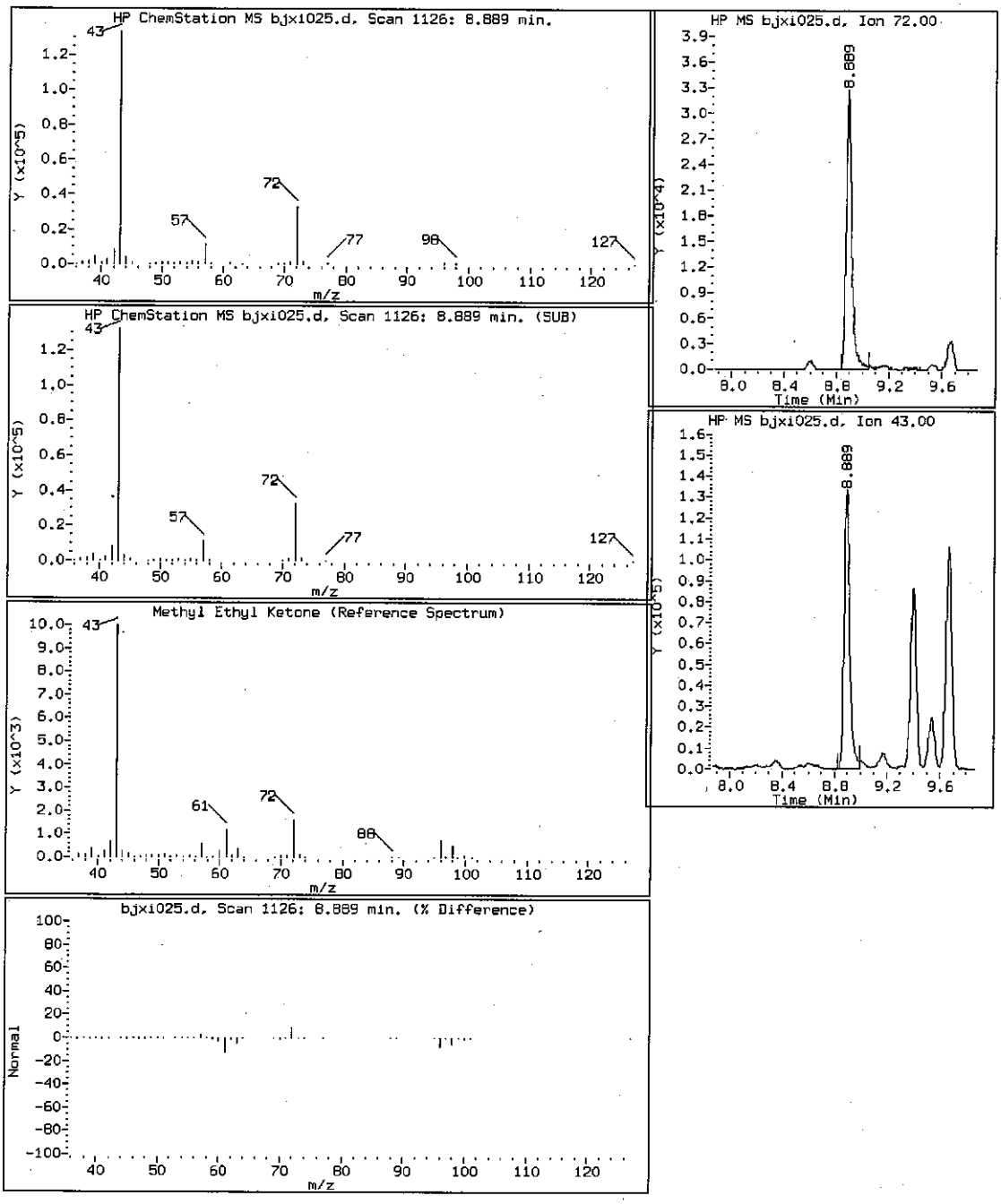
Client ID: SCA-021511-04

Instrument: B.i

Sample Info: 200-3885-A-4

Operator: pad

36 Methyl Ethyl Ketone



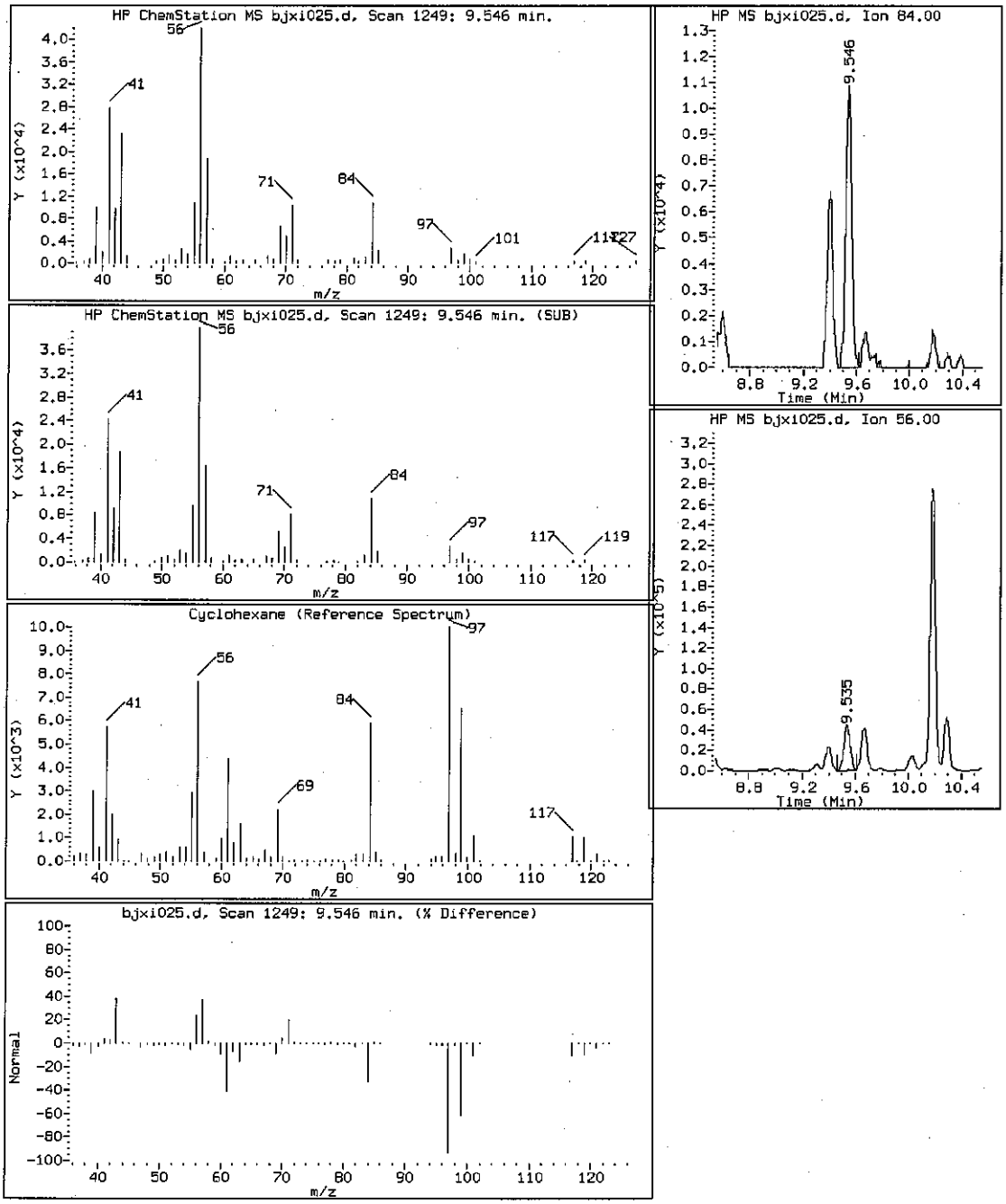
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

40 Cyclohexane



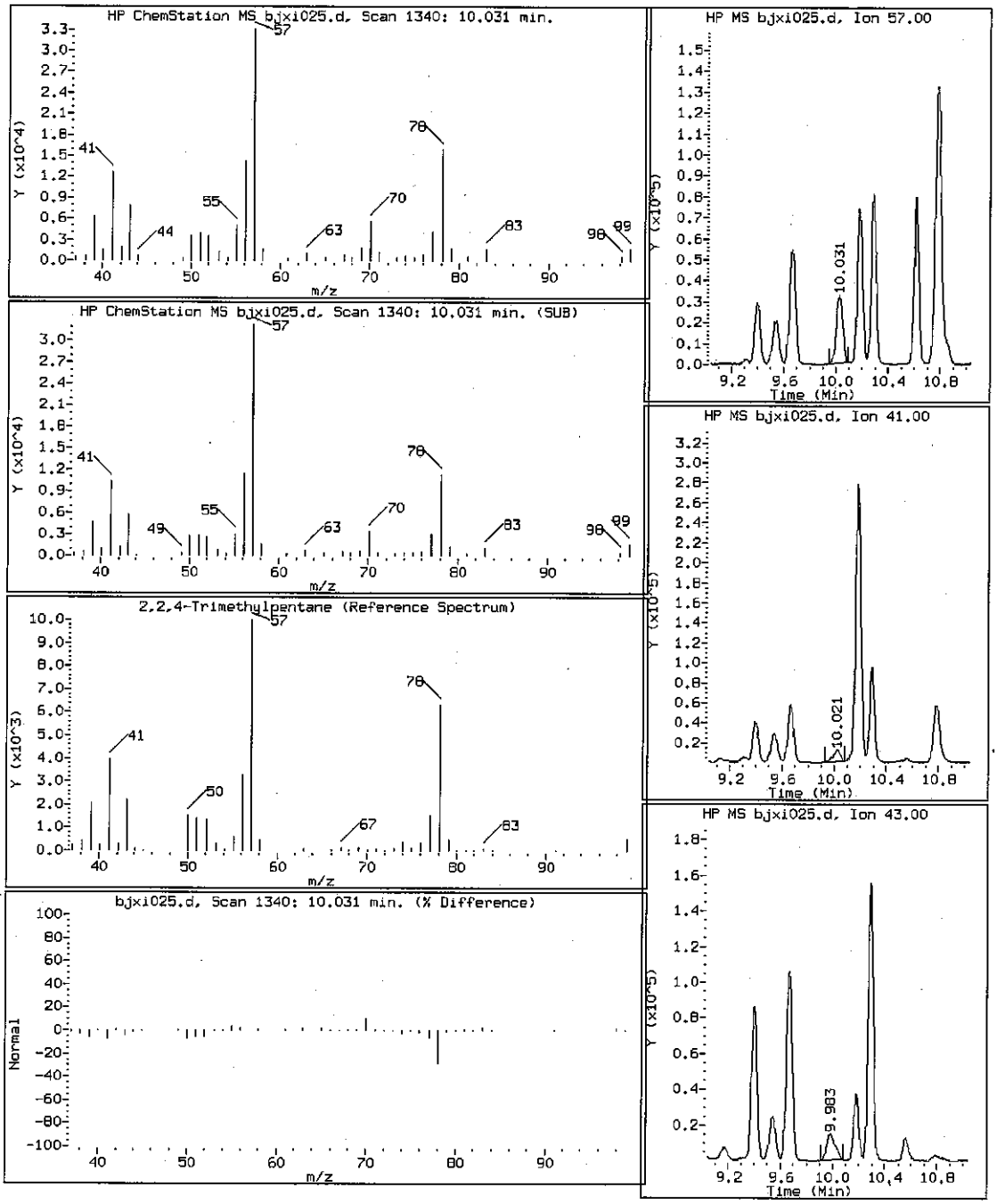
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

43 2,2,4-Trimethylpentane



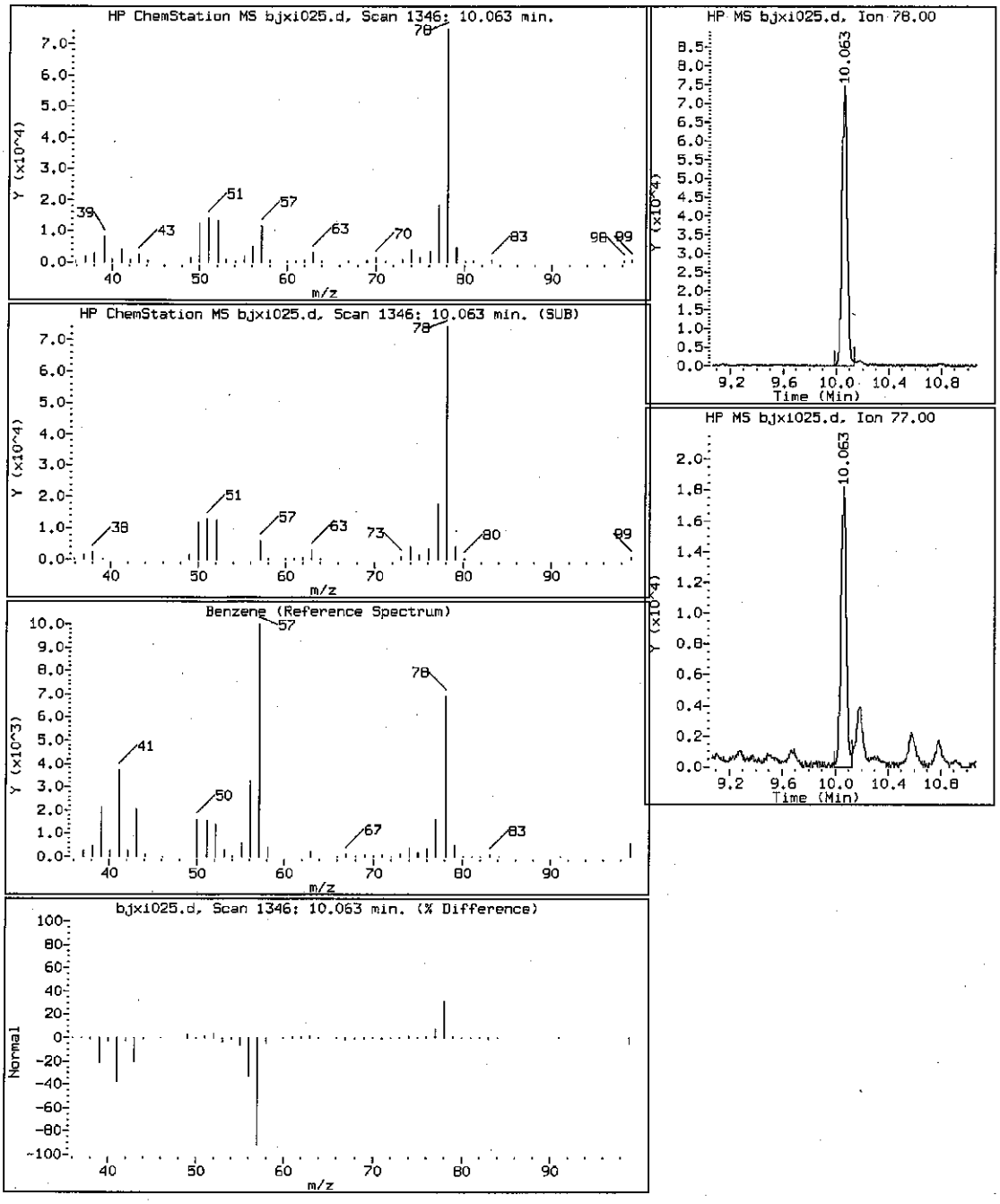
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

44 Benzene



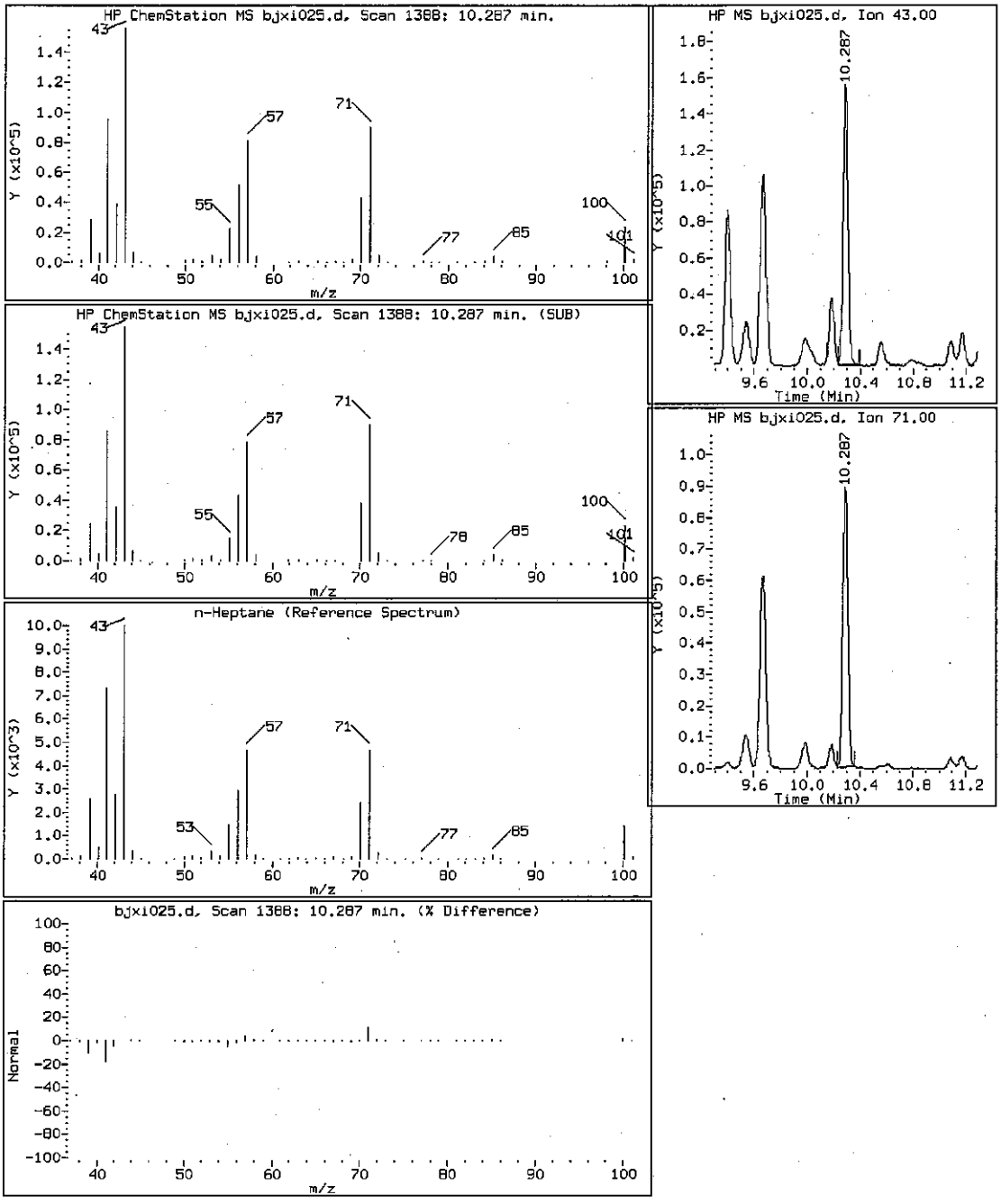
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

46 n-Heptane



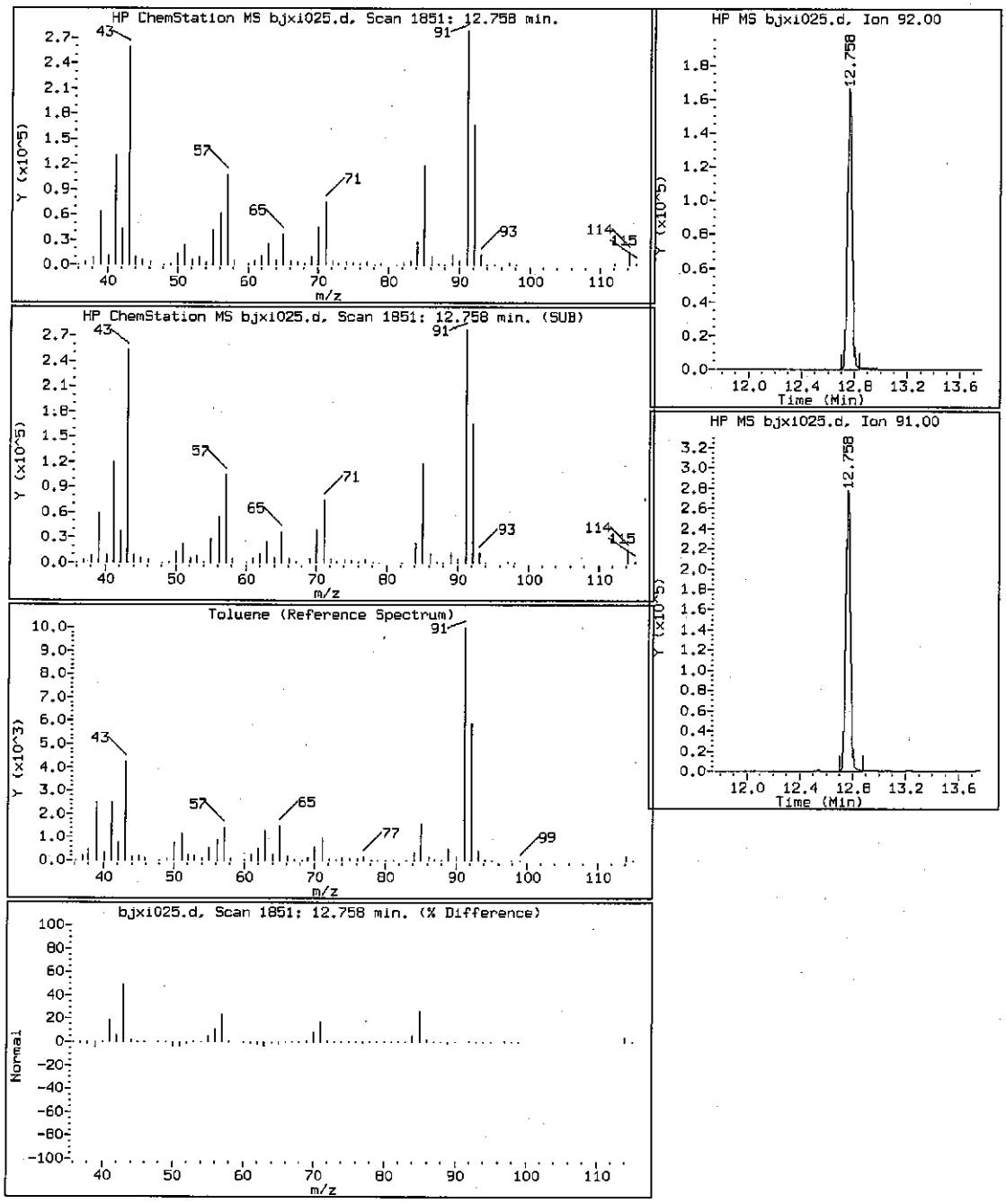
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

58 Toluene



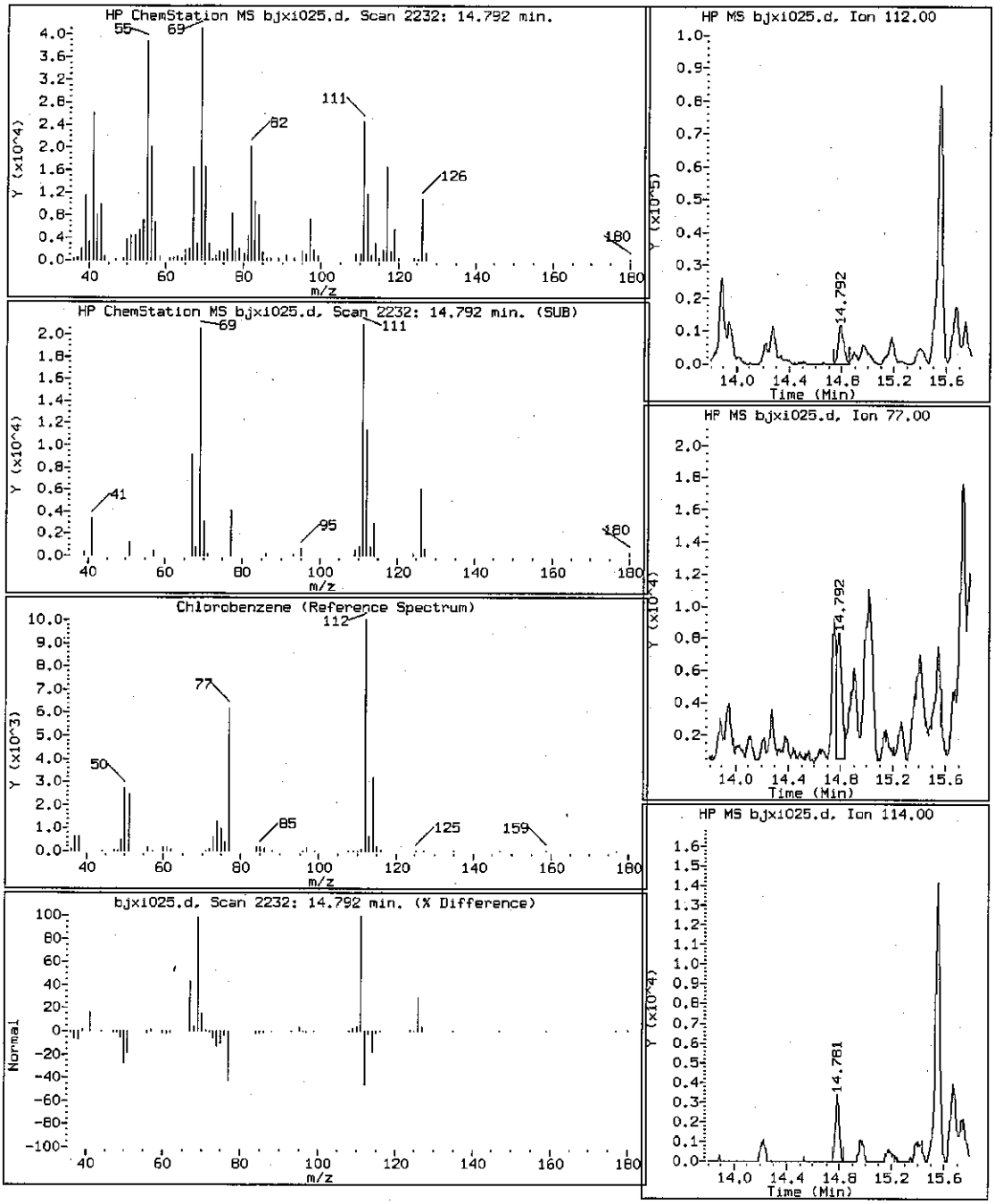
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

66 Chlorobenzene



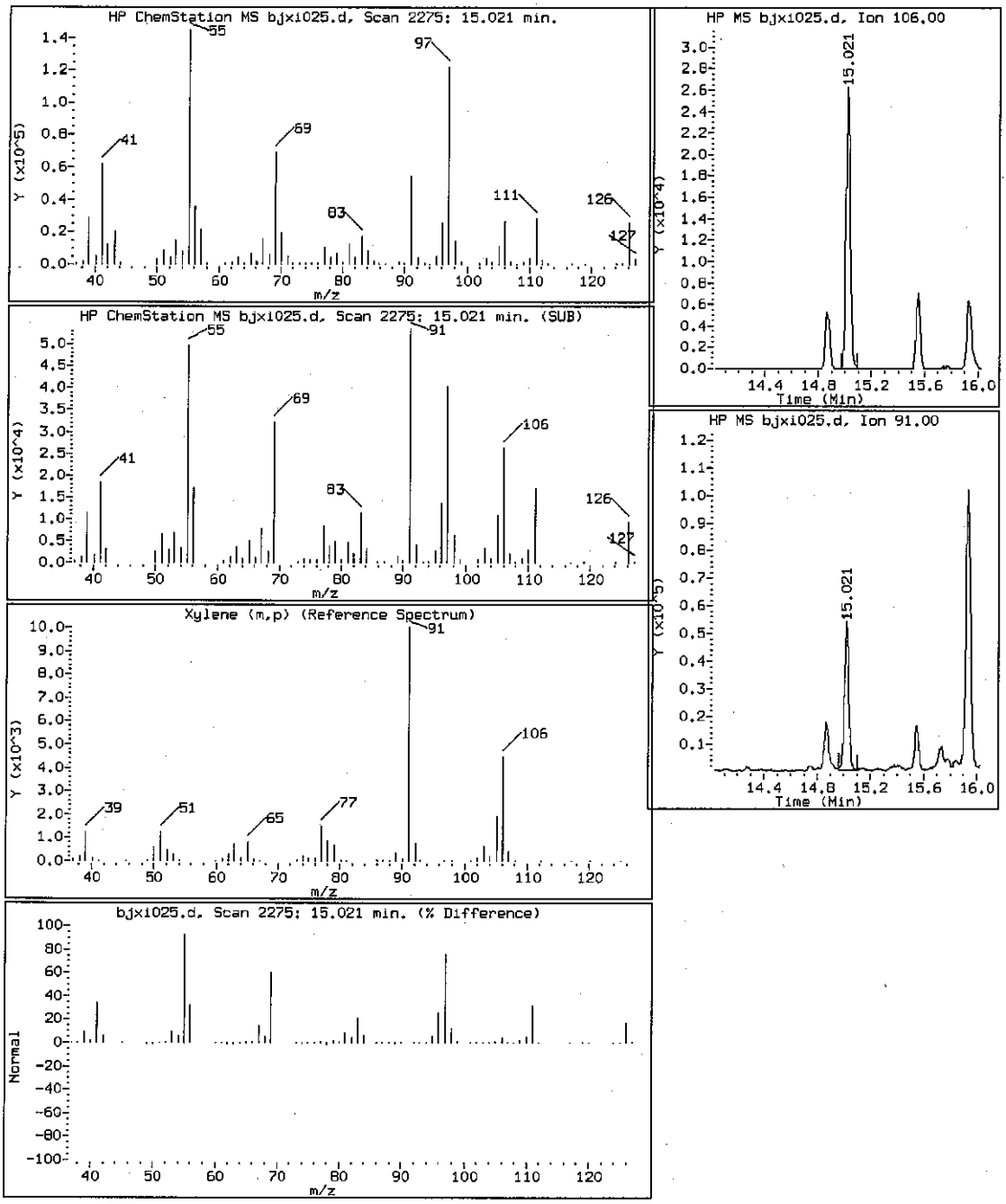
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

69 Xylene (m,p)



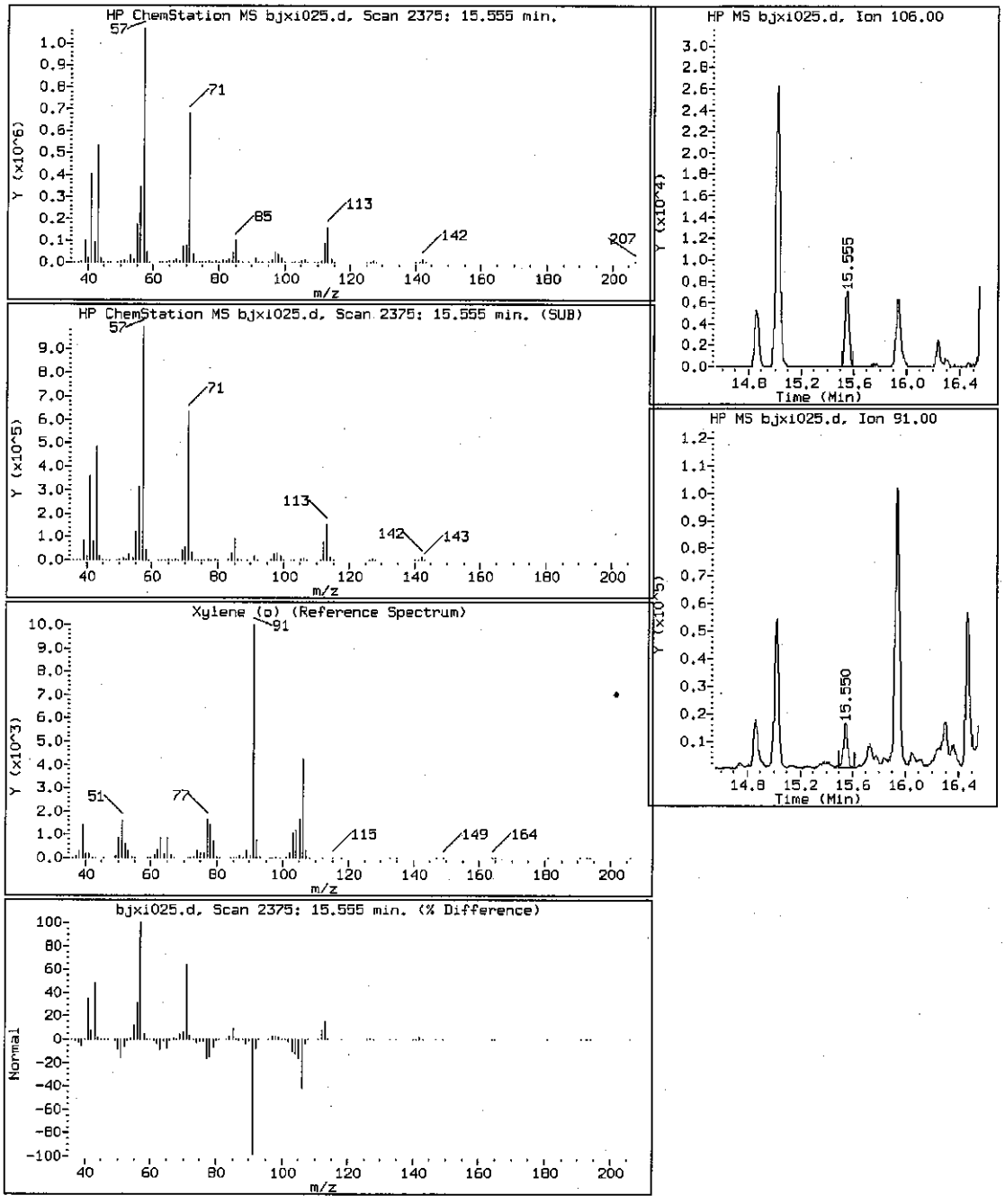
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

71 Xylene (o)



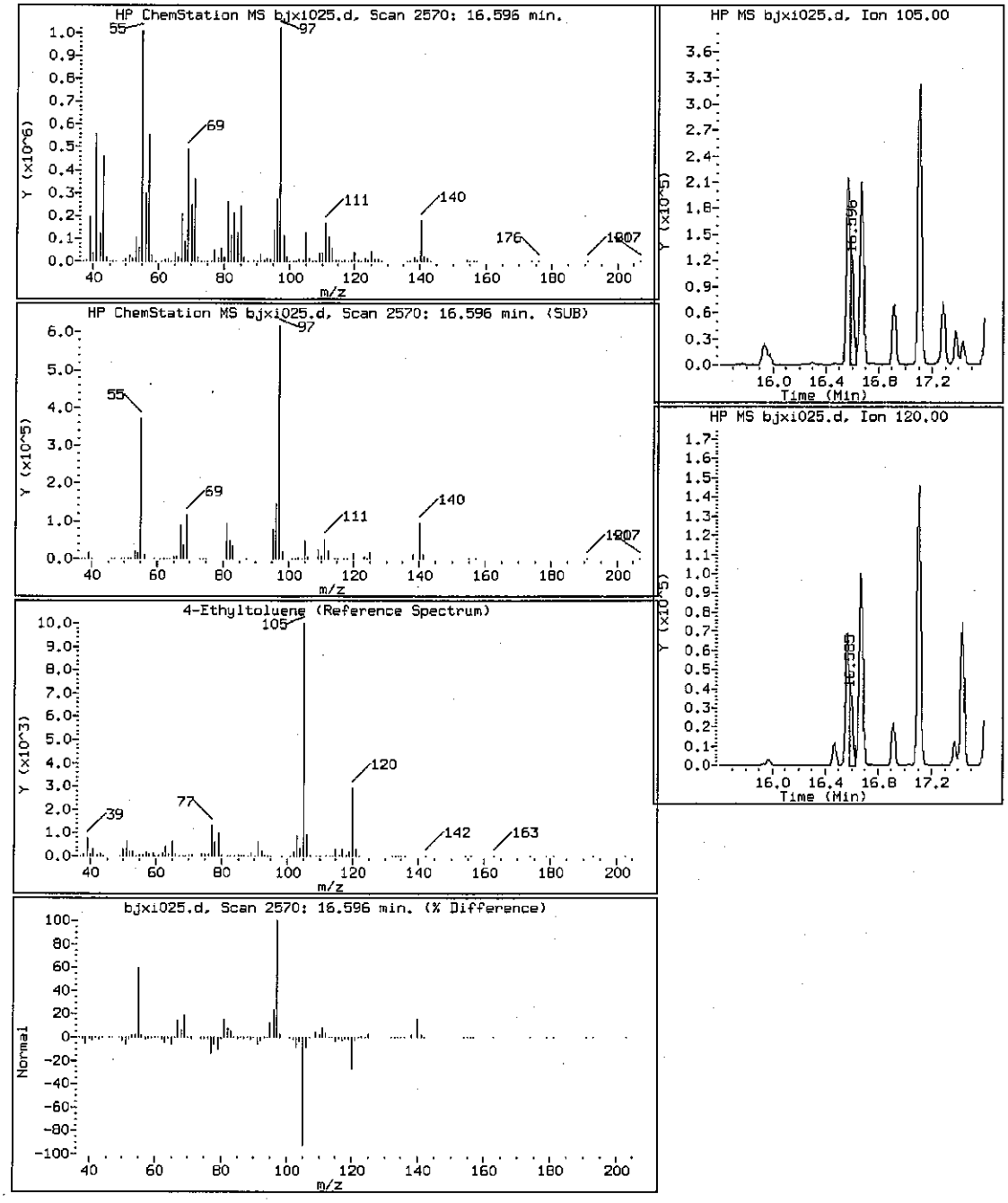
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

79 4-Ethyltoluene



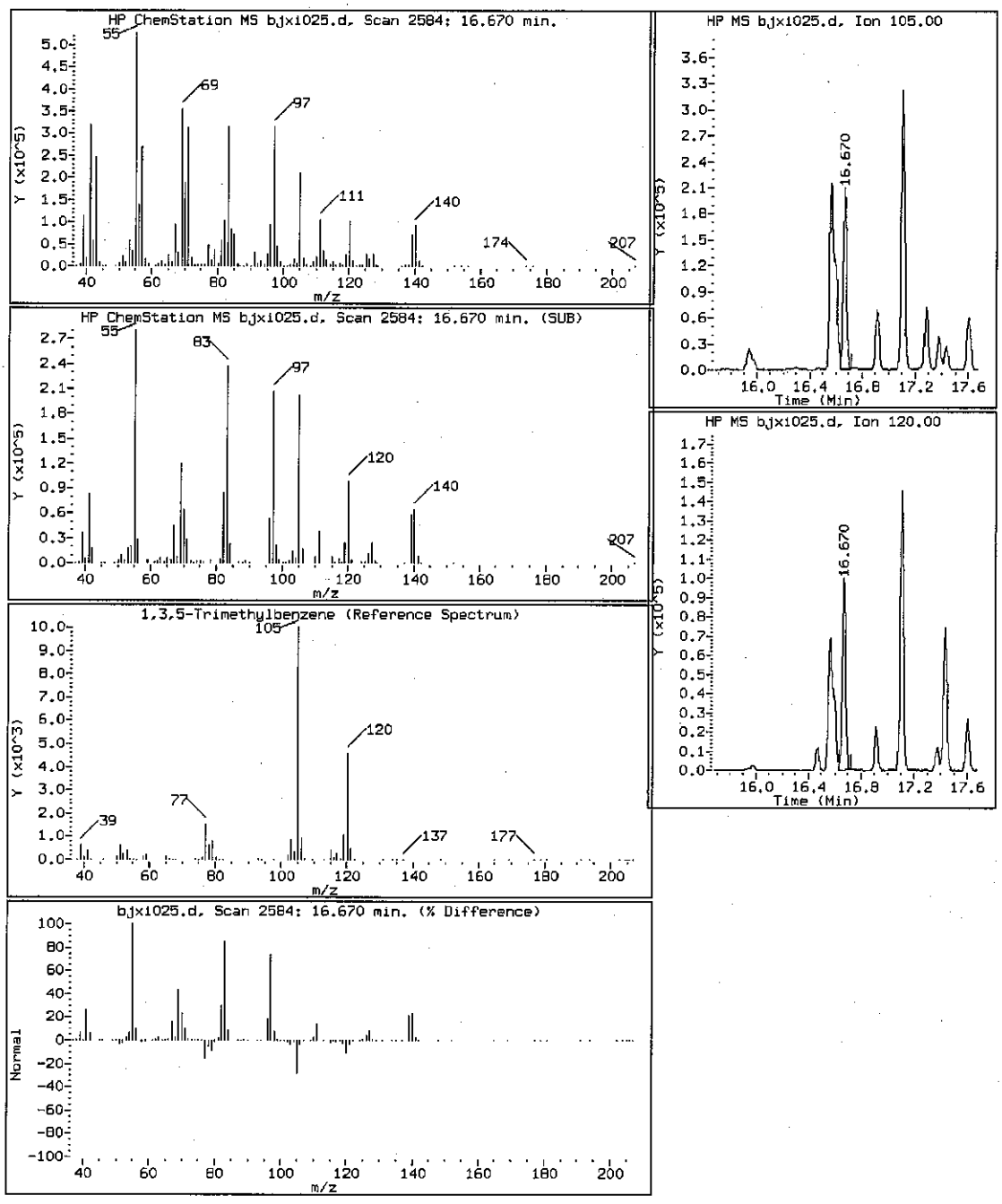
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

81 1,3,5-Trimethylbenzene



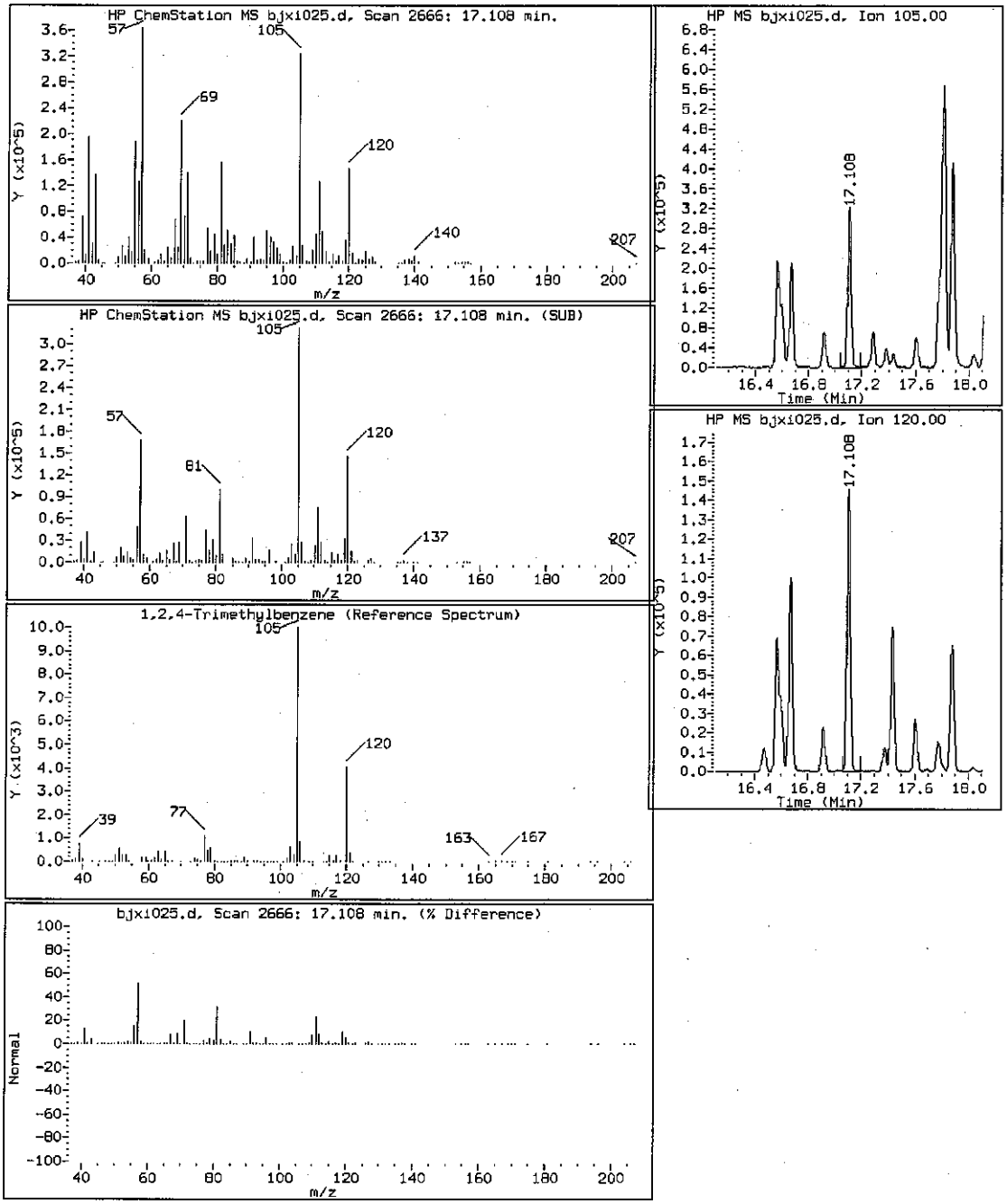
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

84 1,2,4-Trimethylbenzene



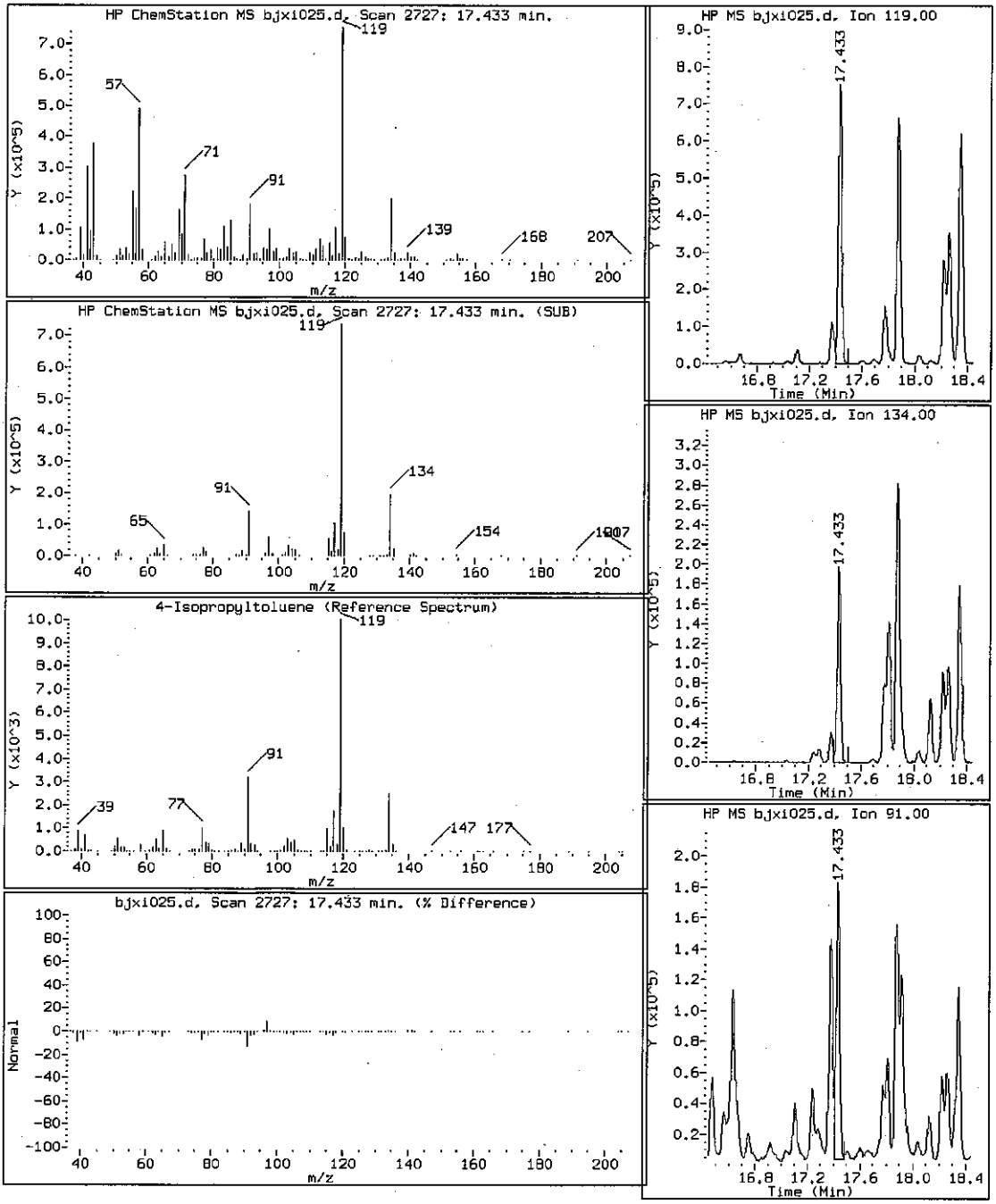
Data File: bjxi025.d

Lab Sample ID: 200-3885-4 Date: 26-FEB-2011 06:32

Client ID: SCA-021511-04 Instrument: B.i

Sample Info: 200-3885-A-4 Operator: pad

86 4-Isopropyltoluene



Manual Integration Report

Data File: bjxi025.d
Lab Sample ID: 200-3885-4
Inj. Date and Time: 26-FEB-2011 06:32
Instrument ID: B.i
Client ID: SCA-021511-04
Compound: 41 1,1,1-Trichloroethane
CAS #: 71-55-6
Report Date: 02/27/2011

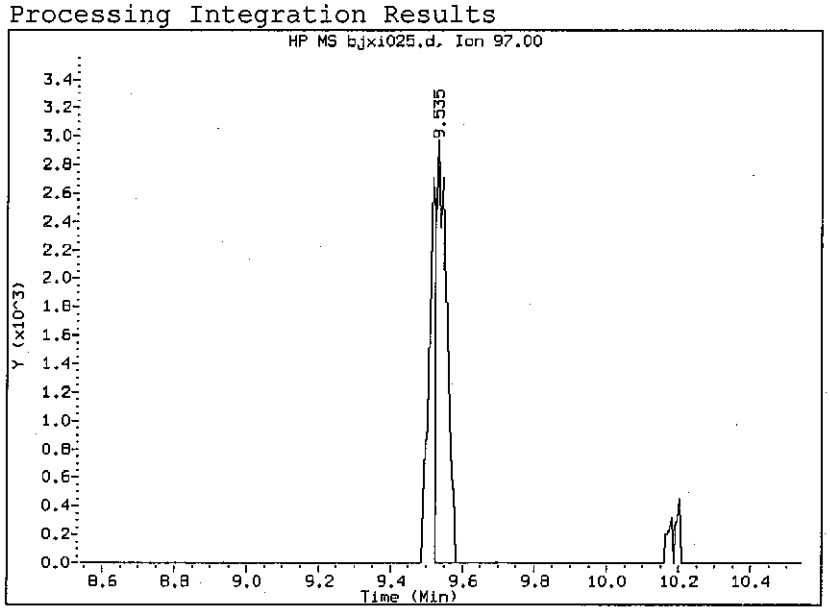
Processing Integration Results

RT: 9.53

Response: 6395

Amount: 0.060818

Conc: 0.243274



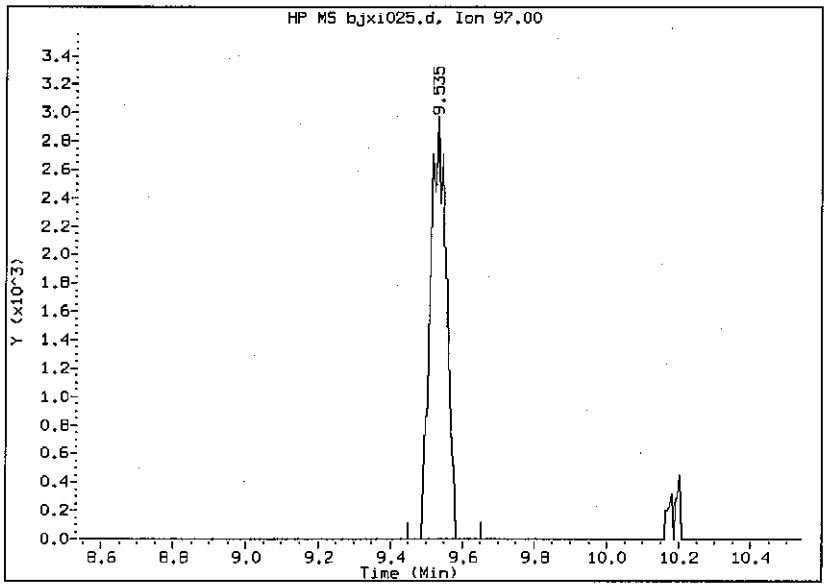
Manual Integration Results

RT: 9.53

Response: 9046

Amount: 0.086030

Conc: 0.344121



File Uploaded By: klp
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: bjxi025.d
Lab Sample ID: 200-3885-4
Inj. Date and Time: 26-FEB-2011 06:32
Instrument ID: B.i
Client ID: SCA-021511-04
Compound: 43 2,2,4-Trimethylpentane
CAS #: 540-84-1
Report Date: 02/27/2011

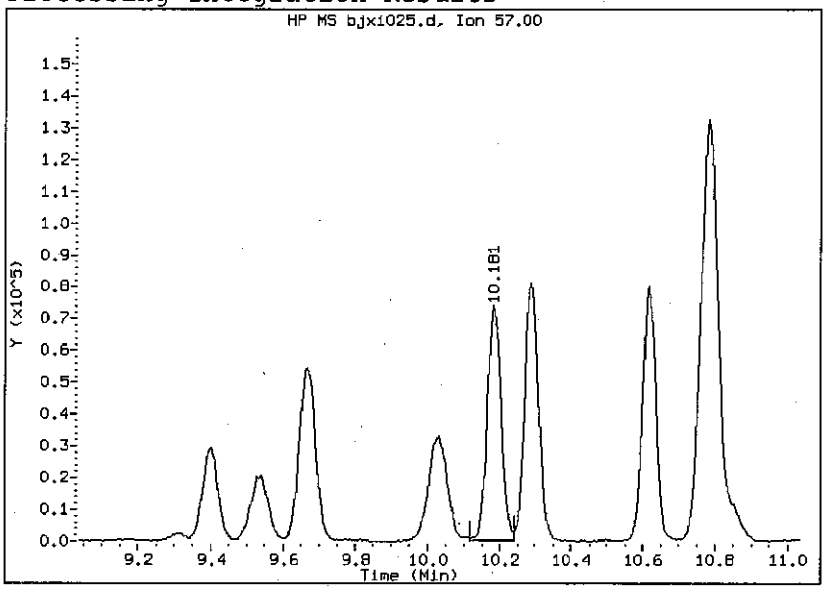
Processing Integration Results

RT: 10.18

Response: 198430

Amount: 0.790730

Conc: 3.16



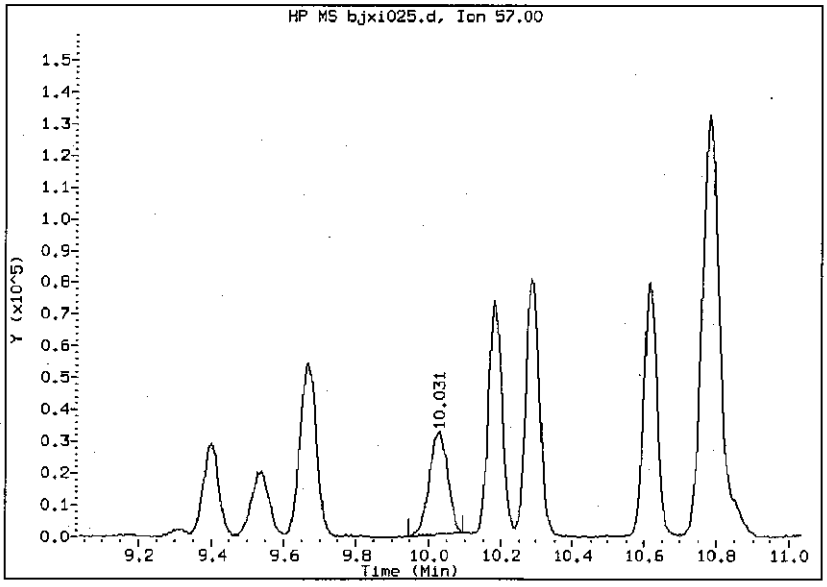
Manual Integration Results

RT: 10.03

Response: 111923

Amount: 0.446007

Conc: 1.78



File Uploaded By: klp
Manual Integration Reason: Peak not found by the data system

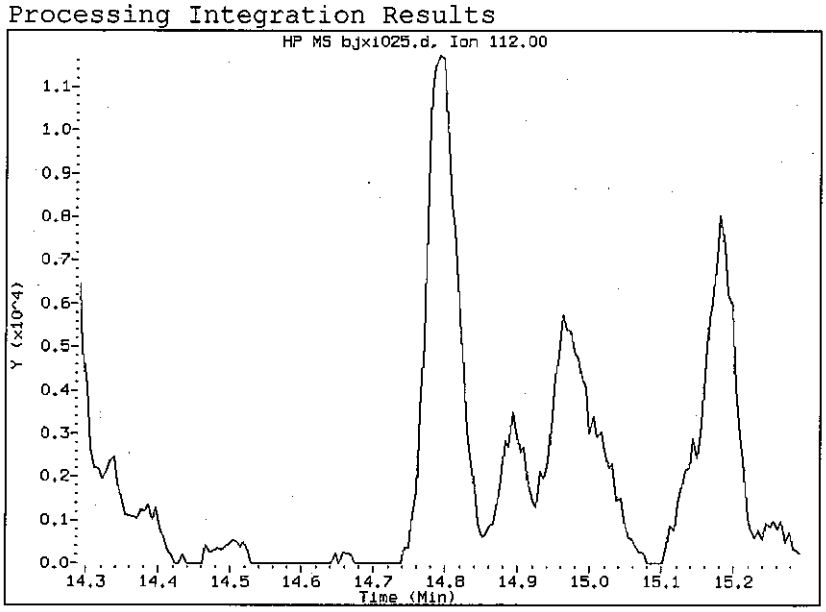
Manual Integration Report

Data File: bjxi025.d
Lab Sample ID: 200-3885-4
Inj. Date and Time: 26-FEB-2011 06:32
Instrument ID: B.i
Client ID: SCA-021511-04
Compound: 66 Chlorobenzene
CAS #: 108-90-7
Report Date: 02/27/2011

Processing Integration Results

Not Detected

Expected RT: 14.79



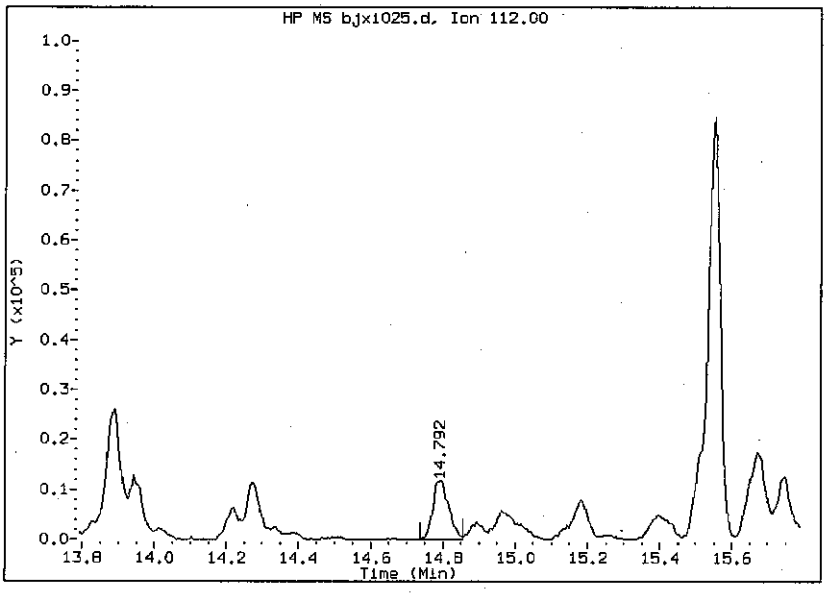
Manual Integration Results

RT: 14.79

Response: 35905

Amount: 0.230894

Conc: 0.923575



File Uploaded By: klp
Manual Integration Reason: Baseline event

Manual Integration Report

Data File: bjxi025.d
Lab Sample ID: 200-3885-4
Inj. Date and Time: 26-FEB-2011 06:32
Instrument ID: B.i
Client ID: SCA-021511-04
Compound: 79 4-Ethyltoluene
CAS #: 622-96-8
Report Date: 02/27/2011

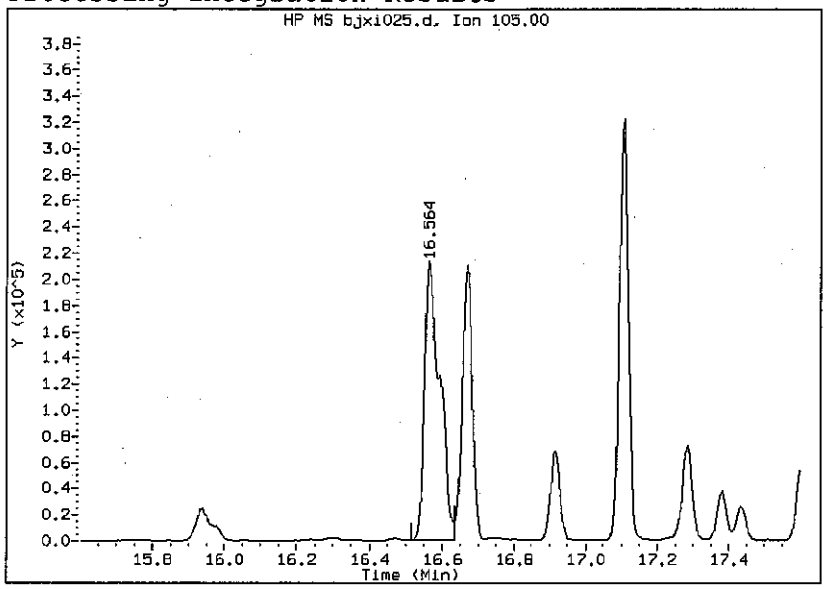
Processing Integration Results

RT: 16.56

Response: 617699

Amount: 2.13

Conc: 8.51



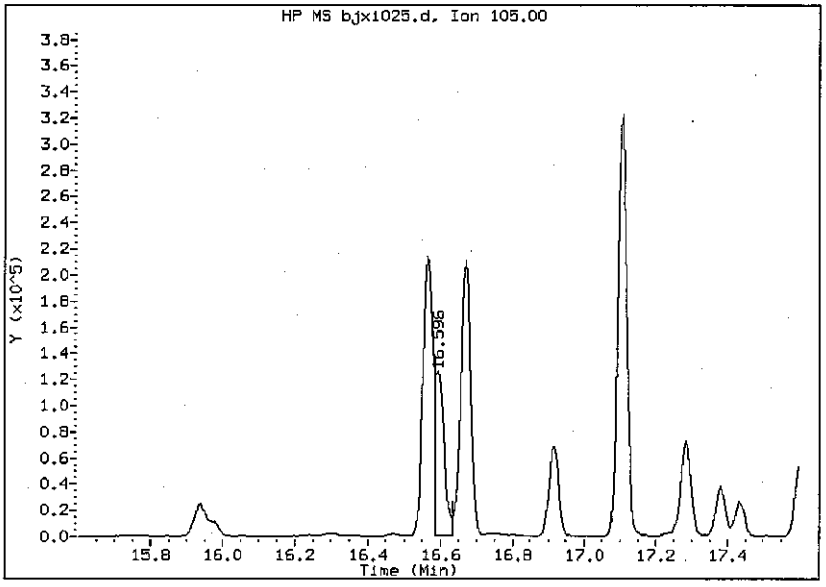
Manual Integration Results

RT: 16.60

Response: 236748

Amount: 0.815685

Conc: 3.26



File Uploaded By: klp
Manual Integration Reason: Baseline event

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-3885-1 Analy Batch No.: 13474

SDG No.: 200-3885

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/09/2011 15:04 Calibration End Date: 02/09/2011 20:19 Calibration ID: 4769

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-13474/5	ic 109459	bjx005.d
Level 2	IC 200-13474/6	ic 109450	bjx006.d
Level 3	IC 200-13474/7	ic 109440	bjx007.d
Level 4	ICIS 200-13474/8	icis 109439	bjx008.d
Level 5	IC 200-13474/9	ic 109427	bjx009.d
Level 6	IC 200-13474/10	ic 109426	bjx010.d
Level 7	IC 200-13474/11	ic 109424	bjx011.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.3221	0.4634 0.2968	0.4013	0.3586	0.3439	Ave		0.3643				16.5		30.0			
Dichlorodifluoromethane	+++++ 1.6987	2.2587 1.5123	2.1243	1.9852	1.8235	Ave		1.9005				14.6		30.0			
Freon 22	+++++ 0.8069	1.0409 0.7364	0.9970	0.9239	0.8668	Ave		0.8953				12.9		30.0			
1,2-Dichlorotetrafluoroethane	2.3536 1.7219	2.2114 1.5448	2.1107	1.9814	1.8362	Ave		1.9657				14.5		30.0			
Chloromethane	+++++ 0.4180	0.5216 0.3954	0.5031	0.4656	0.4505	Ave		0.4590				10.5		30.0			
n-Butane	+++++ 0.7202	0.8982 0.6598	0.8723	0.8026	0.7647	Ave		0.7863				11.5		30.0			
Vinyl chloride	0.7546 0.5692	0.7257 0.5236	0.6929	0.6395	0.6030	Ave		0.6441				13.2		30.0			
1,3-Butadiene	0.5283 0.4060	0.4973 0.3748	0.4863	0.4555	0.4279	Ave		0.4537				12.0		30.0			
Bromomethane	1.2204 0.8849	1.1188 0.8062	1.0605	1.0127	0.9373	Ave		1.0058				14.1		30.0			
Chloroethane	+++++ 0.5072	0.6382 0.4583	0.6050	0.5775	0.5370	Ave		0.5539				11.9		30.0			
Isopentane	1.4311 0.9949	1.3073 0.8842	1.2247	1.1682	1.0886	Ave		1.1570				16.1		30.0			
Bromoethene(Vinyl Bromide)	1.3586 1.0796	1.2833 1.0164	1.2230	1.1991	1.1390	Ave		1.1856				9.9		30.0			
Trichlorofluoromethane	3.8680 2.7661	3.4195 2.5391	3.2972	3.1484	2.9531	Ave		3.1416				14.0		30.0			
n-Pentane	+++++ 1.7212	2.2944 1.5324	2.1111	2.0330	1.9233	Ave		1.9359				14.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-3885-1 Analy Batch No.: 13474

SDG No.: 200-3885

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/09/2011 15:04 Calibration End Date: 02/09/2011 20:19 Calibration ID: 4769

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethanol	+++++ 0.4812	0.5230 0.4482	0.4416	0.4870	0.5116	Ave		0.4821				6.8		30.0			
Ethyl ether	1.1216 0.8987	1.0052 0.8295	1.0104	0.9735	0.9475	Ave		0.9695				9.5		30.0			
Acrolein	+++++ 0.4742	+++++ 0.4327	0.5302	0.5194	0.4972	Ave		0.4908				7.9		30.0			
Freon TF	2.5645 2.1070	2.2913 2.0179	2.2107	2.1815	2.1427	Ave		2.2165				7.9		30.0			
1,1-Dichloroethene	1.1747 1.0402	1.0699 1.0161	1.0744	1.0664	1.0571	Ave		1.0713				4.7		30.0			
Acetone	+++++ 1.6068	+++++ 1.4914	2.0286	1.8282	1.7438	Ave		1.7397				11.9		30.0			
Carbon disulfide	+++++ 3.4526	3.8028 3.2885	3.7142	3.6039	3.5609	Ave		3.5705				5.2		30.0			
Isopropyl alcohol	+++++ 1.3019	+++++ 1.2193	1.5433	1.4690	1.4094	Ave		1.3886				9.3		30.0			
3-Chloropropene	1.7182 1.3494	1.5814 1.2496	1.5630	1.5032	1.4645	Ave		1.4899				10.4		30.0			
Acetonitrile	+++++ 0.8035	+++++ 0.7368	0.9928	0.9089	0.9147	Ave		0.8713				11.6		30.0			
Methylene Chloride	+++++ 1.1784	1.5910 1.0823	1.4102	1.3131	1.2625	Ave		1.3062				13.7		30.0			
tert-Butyl alcohol	+++++ 2.0320	+++++ 1.9189	2.2887	2.2459	2.1778	Ave		2.1327				7.2		30.0			
trans-1,2-Dichloroethene	2.1513 1.7167	2.0598 1.5669	1.9822	1.9054	1.8211	Ave		1.8862				10.7		30.0			
Methyl tert-butyl ether	3.9207 3.4720	3.7619 3.2562	3.8127	3.7191	3.6086	Ave		3.6502				6.2		30.0			
Acrylonitrile	+++++ 0.8438	0.9481 0.7859	0.9221	0.9014	0.8807	Ave		0.8803				6.6		30.0			
n-Hexane	2.3574 1.8893	2.1924 1.7192	2.1638	2.0664	1.9796	Ave		2.0526				10.3		30.0			
1,1-Dichloroethane	2.6815 2.1349	2.5069 1.9609	2.4276	2.3440	2.2418	Ave		2.3282				10.3		30.0			
Vinyl acetate	+++++ 2.7520	+++++ 2.4792	3.1895	3.0727	2.9338	Ave		2.8854				9.7		30.0			
1,4-Dioxane	+++++ 0.1042	+++++ 0.0995	0.1148	0.1135	0.1089	Ave		0.1082				5.9		30.0			
cis-1,2-Dichloroethene	1.3382 1.2148	1.2606 1.1453	1.2482	1.2543	1.2346	Ave		1.2423				4.6		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-3885-1 Analy Batch No.: 13474

SDG No.: 200-3885

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/09/2011 15:04 Calibration End Date: 02/09/2011 20:19 Calibration ID: 4769

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl Ethyl Ketone	+++++ 0.5971	0.6284 0.5398	0.6540	0.6347	0.6133	Ave		0.6112				6.5		30.0			
Ethyl acetate	+++++ 0.1113	+++++ 0.1039	0.1092	0.1156	0.1116	Ave		0.1103				3.9		30.0			
Tetrahydrofuran	+++++ 0.2429	+++++ 0.2238	0.2802	0.2684	0.2553	Ave		0.2541				8.6		30.0			
Chloroform	3.0205 2.3863	2.7457 2.2431	2.6581	2.5561	2.4720	Ave		2.5831				9.9		30.0			
1,1,1-Trichloroethane	0.5625 0.4899	0.5336 0.4686	0.5272	0.5168	0.5011	Ave		0.5142				6.0		30.0			
Cyclohexane	0.4046 0.3458	0.3591 0.3280	0.3599	0.3566	0.3489	Ave		0.3575				6.6		30.0			
Carbon tetrachloride	0.5354 0.4827	0.5094 0.4776	0.5113	0.5073	0.4908	Ave		0.5021				4.0		30.0			
2,2,4-Trimethylpentane	1.3582 1.1500	1.2918 1.0586	1.2953	1.2427	1.1943	Ave		1.2273				8.3		30.0			
Benzene	0.8880 0.7368	0.8219 0.6960	0.7913	0.7694	0.7506	Ave		0.7791				8.0		30.0			
1,2-Dichloroethane	0.4112 0.3288	0.3807 0.3137	0.3679	0.3554	0.3411	Ave		0.3570				9.3		30.0			
n-Heptane	0.5152 0.4017	0.4821 0.3637	0.4713	0.4425	0.4228	Ave		0.4427				11.6		30.0			
n-Butanol	+++++ 0.1287	+++++ 0.1301	0.1364	0.1370	0.1367	Ave		0.1338				3.0		30.0			
Trichloroethene	0.3813 0.3180	0.3253 0.3078	0.3283	0.3284	0.3216	Ave		0.3301				7.2		30.0			
1,2-Dichloropropane	0.3278 0.2700	0.3021 0.2553	0.2951	0.2861	0.2771	Ave		0.2876				8.2		30.0			
Methyl methacrylate	+++++ 0.2720	0.2273 0.2602	0.2827	0.2831	0.2769	Ave		0.2670				7.9		30.0			
Dibromomethane	0.2404 0.2558	0.2141 0.2615	0.2306	0.2427	0.2465	Ave		0.2417				6.6		30.0			
Bromodichloromethane	0.5563 0.5311	0.5463 0.5099	0.5660	0.5563	0.5424	Ave		0.5440				3.5		30.0			
cis-1,3-Dichloropropene	0.4378 0.4363	0.4140 0.4201	0.4518	0.4480	0.4397	Ave		0.4354				3.2		30.0			
methyl isobutyl ketone	+++++ 0.4918	0.4917 0.4544	0.5653	0.5430	0.5189	Ave		0.5108				7.8		30.0			
Toluene	0.7004 0.6012	0.6254 0.5469	0.6248	0.6243	0.6102	Ave		0.6190				7.3		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-3885-1 Analy Batch No.: 13474

SDG No.: 200-3885

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/09/2011 15:04 Calibration End Date: 02/09/2011 20:19 Calibration ID: 4769

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Octane	0.7149 0.4958	0.6485 0.4182	0.6336	0.5762	0.5361	Ave		0.5748				17.5		30.0			
trans-1,3-Dichloropropene	0.4697 0.4586	0.4360 0.4376	0.4787	0.4737	0.4676	Ave		0.4603				3.7		30.0			
1,1,2-Trichloroethane	0.3255 0.2942	0.3048 0.2771	0.3044	0.3003	0.2966	Ave		0.3004				4.8		30.0			
Tetrachloroethene	0.4410 0.4544	0.4035 0.4573	0.4140	0.4336	0.4401	Ave		0.4348				4.6		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.5399	0.4767 0.5004	0.5939	0.5825	0.5659	Ave		0.5432				8.6		30.0			
Dibromochloromethane	0.4506 0.5674	0.4424 0.5585	0.5385	0.5571	0.5617	Ave		0.5252				10.4		30.0			
1,2-Dibromoethane	0.5197 0.5272	0.4745 0.5128	0.5165	0.5256	0.5240	Ave		0.5143				3.6		30.0			
Chlorobenzene	0.9632 0.8051	0.8206 0.7820	0.8030	0.8029	0.7955	Ave		0.8246				7.5		30.0			
Ethylbenzene	1.4900 1.3313	1.3660 1.2463	1.3715	1.3585	1.3346	Ave		1.3569				5.3		30.0			
n-Nonane	0.7605 0.5811	0.7081 0.5071	0.6768	0.6353	0.6093	Ave		0.6398				13.2		30.0			
m,p-Xylene	0.5786 0.5203	0.5114 0.4614	0.5295	0.5344	0.5253	Ave		0.5230				6.6		30.0			
Xylene, o-	0.5150 0.5103	0.4837 0.4744	0.5083	0.5140	0.5102	Ave		0.5023				3.2		30.0			
Styrene	0.6482 0.8106	0.6401 0.7530	0.7824	0.8073	0.8076	Ave		0.7499				10.0		30.0			
Bromoform	0.3610 0.5391	0.3478 0.5270	0.4799	0.5153	0.5244	Ave		0.4706				17.3		30.0			
Cumene	1.4729 1.4828	1.4165 1.3770	1.4950	1.4981	1.4812	Ave		1.4605				3.1		30.0			
1,1,2,2-Tetrachloroethane	0.8595 0.7540	0.7899 0.6787	0.7990	0.7835	0.7700	Ave		0.7764				7.0		30.0			
n-Propylbenzene	2.0255 1.7671	1.8452 1.4761	1.8979	1.8742	1.8282	Ave		1.8163				9.3		30.0			
1,2,3-Trichloropropane	+++++ 0.5723	0.6737 0.4789	0.6569	0.6304	0.6014	Ave		0.6023				11.7		30.0			
n-Decane	+++++ 0.7261	0.9175 0.6007	0.8829	0.8135	0.7743	Ave		0.7858				14.6		30.0			
4-Ethyltoluene	1.6966 1.5373	1.5028 1.3628	1.5573	1.5646	1.5526	Ave		1.5391				6.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-3885-1 Analy Batch No.: 13474

SDG No.: 200-3885

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/09/2011 15:04 Calibration End Date: 02/09/2011 20:19 Calibration ID: 4769

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	1.6396 1.3579	1.4617 1.2051	1.4507	1.4134	1.3889	Ave		1.4167				9.2		30.0			
1,3,5-Trimethylbenzene	1.3807 1.2582	1.2323 1.1398	1.2823	1.2760	1.2613	Ave		1.2615				5.7		30.0			
Alpha Methyl Styrene	0.4456 0.6551	0.4432 0.6171	0.6174	0.6409	0.6469	Ave		0.5809				16.2		30.0			
tert-Butylbenzene	1.2597 1.1601	1.1353 1.0710	1.1631	1.1775	1.1619	Ave		1.1612				4.8		30.0			
1,2,4-Trimethylbenzene	1.3807 1.2378	1.2268 1.1285	1.2735	1.2615	1.2478	Ave		1.2509				5.9		30.0			
sec-Butylbenzene	2.0197 1.7650	1.7759 1.5361	1.8414	1.8196	1.7938	Ave		1.7931				7.9		30.0			
4-Isopropyltoluene	1.5268 1.5018	1.3941 1.3481	1.5115	1.5220	1.5067	Ave		1.4730				4.8		30.0			
1,3-Dichlorobenzene	0.9468 0.8262	0.7333 0.7765	0.7824	0.8000	0.8084	Ave		0.8105				8.3		30.0			
1,4-Dichlorobenzene	0.9821 0.8366	0.7455 0.7838	0.7850	0.8009	0.8170	Ave		0.8216				9.3		30.0			
Benzyl chloride	1.3303 1.1813	1.1036 1.0877	1.2429	1.2247	1.2046	Ave		1.1964				7.0		30.0			
n-Undecane	+++++ 0.6944	+++++ 0.5410	0.9589	0.8094	0.7633	Ave		0.7534				20.4		30.0			
n-Butylbenzene	1.7768 1.3036	1.5198 1.0490	1.5344	1.4562	1.3845	Ave		1.4321				15.7		30.0			
1,2-Dichlorobenzene	0.9016 0.7805	0.7189 0.7370	0.7485	0.7567	0.7644	Ave		0.7725				7.8		30.0			
n-Dodecane	+++++ 0.7488	+++++ 0.4295	0.8944	0.6974	0.7686	Ave		0.7077				24.2		30.0			
1,2,4-Trichlorobenzene	+++++ 0.6713	0.5436 0.5763	0.5880	0.5494	0.6263	Ave		0.5925				8.2		30.0			
Hexachlorobutadiene	0.5268 0.4762	0.4442 0.4059	0.4377	0.4280	0.4410	Ave		0.4514				8.7		30.0			
Naphthalene	+++++ 1.6197	1.3953 1.3516	1.4627	1.2667	1.5352	Ave		1.4385				8.9		30.0			
1,2,3-Trichlorobenzene	0.6966 0.6148	0.5322 0.4632	0.5402	0.4904	0.5666	Ave		0.5577				14.1		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-3885-1 Analy Batch No.: 13474

SDG No.: 200-3885

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/09/2011 15:04 Calibration End Date: 02/09/2011 20:19 Calibration ID: 4769

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-13474/5	bjx005.d
Level 2	IC 200-13474/6	bjx006.d
Level 3	IC 200-13474/7	bjx007.d
Level 4	ICIS 200-13474/8	bjx008.d
Level 5	IC 200-13474/9	bjx009.d
Level 6	IC 200-13474/10	bjx010.d
Level 7	IC 200-13474/11	bjx011.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 434488	13147 818228	114715	219264	323376	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dichlorodifluoromethane	BCM	Ave	+++++ 2291560	64074 4169055	607320	1213937	1714698	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Freon 22	BCM	Ave	+++++ 1088466	29528 2030018	285025	564944	815096	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	26883 2322893	62733 4258588	603437	1211618	1726639	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloromethane	BCM	Ave	+++++ 563857	14797 1089942	143829	284700	423605	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Butane	BCM	Ave	+++++ 971484	25481 1818845	249378	490789	719021	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl chloride	BCM	Ave	8619 767904	20587 1443391	198096	391036	566999	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Butadiene	BCM	Ave	6034 547702	14106 1033177	139037	278528	402315	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromomethane	BCM	Ave	13939 1193759	31738 2222419	303173	619285	881358	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloroethane	BCM	Ave	+++++ 684182	18103 1263508	172962	353164	504913	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Isopentane	BCM	Ave	16346 1342096	37085 2437477	350117	714361	1023624	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoethene(Vinyl Bromide)	BCM	Ave	15518 1456368	36403 2801914	349652	733242	1070985	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichlorofluoromethane	BCM	Ave	44181 3731410	97003 6999514	942632	1925207	2776881	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Pentane	BCM	Ave	+++++ 2321859	65088 4224339	603541	1243155	1808518	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Ethanol	BCM	Ave	+++++ 1298326	148355 3089208	252504	446653	641418	+++++ 40.0	5.00 100	10.0	15.0	20.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-3885-1 Analy Batch No.: 13474

SDG No.: 200-3885

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/09/2011 15:04 Calibration End Date: 02/09/2011 20:19 Calibration ID: 4769

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethyl ether	BCM	Ave	12811 1212335	28516 2286639	288877	595277	890928	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acrolein	BCM	Ave	+++++ 639751	+++++ 1192898	151578	317595	467553	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Freon TF	BCM	Ave	29292 2842340	64999 5562723	632030	1333971	2014826	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethene	BCM	Ave	13417 1403215	30352 2801029	307169	652102	994034	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetone	BCM	Ave	+++++ 2167509	+++++ 4111494	579957	1117917	1639678	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Carbon disulfide	BCM	Ave	+++++ 4657555	107878 9065661	1061851	2203742	3348404	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Isopropyl alcohol	BCM	Ave	+++++ 1756291	+++++ 3361214	441227	898290	1325265	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
3-Chloropropene	BCM	Ave	19625 1820295	44861 3444925	446861	919211	1377121	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetonitrile	BCM	Ave	+++++ 1083889	+++++ 2031052	283835	555810	860134	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Methylene Chloride	BCM	Ave	+++++ 1589668	45133 2983609	403150	802926	1187174	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
tert-Butyl alcohol	BCM	Ave	+++++ 2741224	+++++ 5289949	654315	1373369	2047834	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
trans-1,2-Dichloroethene	BCM	Ave	24572 2315875	58432 4319426	566698	1165124	1712371	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl tert-butyl ether	BCM	Ave	44783 4683706	106717 8976517	1090018	2274185	3393250	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acrylonitrile	BCM	Ave	+++++ 1138333	26894 2166518	263610	551208	828134	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Hexane	BCM	Ave	26927 2548596	62192 4739410	618609	1263578	1861407	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethane	BCM	Ave	30628 2880007	71114 5405647	694030	1433343	2108021	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl acetate	BCM	Ave	+++++ 3712423	+++++ 6834592	911841	1878921	2758674	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
1,4-Dioxane	DFB	Ave	+++++ 700236	+++++ 1328603	167304	350747	513774	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
cis-1,2-Dichloroethene	BCM	Ave	15285 1638788	35760 3157260	356858	766984	1160896	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl Ethyl Ketone	BCM	Ave	+++++ 805504	17827 1487970	186973	388092	576674	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Ethyl acetate	BCM	Ave	+++++ 150173	+++++ 286443	31231	70679	104971	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-3885-1 Analy Batch No.: 13474

SDG No.: 200-3885

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/09/2011 15:04 Calibration End Date: 02/09/2011 20:19 Calibration ID: 4769

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tetrahydrofuran	DFB	Ave	+++++ 1631734	+++++ 2989858	408247	829371	1204789	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Chloroform	BCM	Ave	34500 3219071	77889 6183560	759920	1563052	2324468	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,1-Trichloroethane	DFB	Ave	33206 3291184	77580 6259099	768140	1596898	2364874	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cyclohexane	DFB	Ave	23886 2322680	52205 4381469	524347	1101922	1646568	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Carbon tetrachloride	DFB	Ave	31610 3242588	74056 6379778	745044	1567730	2316150	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2,2,4-Trimethylpentane	DFB	Ave	80184 7725231	187801 14141338	1887361	3840095	5635680	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzene	DFB	Ave	52426 4949901	119483 9296726	1152945	2377666	3542011	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethane	DFB	Ave	24278 2208828	55341 4189973	536122	1098210	1609749	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Heptane	DFB	Ave	30418 2698629	70082 4857749	686718	1367282	1995167	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Butanol	DFB	Ave	+++++ 864866	+++++ 1738166	198804	423422	644982	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Trichloroethene	DFB	Ave	22513 2136452	47294 4111318	478366	1014948	1517682	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloropropane	DFB	Ave	19351 1813825	43922 3410098	429943	884199	1307498	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl methacrylate	DFB	Ave	+++++ 1827267	33050 3475594	411871	874831	1306472	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dibromomethane	DFB	Ave	14191 1718237	31125 3493618	335934	749996	1163397	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromodichloromethane	DFB	Ave	32840 3567664	79414 6811668	824664	1718997	2559614	0.200 20.0	0.500 40.0	5.00	10.0	15.0
cis-1,3-Dichloropropene	DFB	Ave	25844 2930688	60180 5612024	658296	1384346	2075065	0.200 20.0	0.500 40.0	5.00	10.0	15.0
methyl isobutyl ketone	DFB	Ave	+++++ 3304003	71483 6069872	823654	1678035	2448466	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Toluene	CBZ	Ave	37070 3632323	82411 6573877	825370	1747178	2596736	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Octane	DFB	Ave	42207 3330964	94272 5586045	923229	1780655	2529951	0.200 20.0	0.500 40.0	5.00	10.0	15.0
trans-1,3-Dichloropropene	DFB	Ave	27730 3080776	63385 5846047	697447	1463869	2206515	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloroethane	CBZ	Ave	17228 1777773	40159 3330025	402067	840462	1262034	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-3885-1 Analy Batch No.: 13474

SDG No.: 200-3885

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/09/2011 15:04 Calibration End Date: 02/09/2011 20:19 Calibration ID: 4769

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	23338 2745285	53169 5496168	546868	1213586	1872660	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 3262477	62812 6015064	784530	1630444	2408176	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dibromochloromethane	CBZ	Ave	23850 3428090	58288 6712809	711404	1559332	2390294	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dibromoethane	CBZ	Ave	27505 3185165	62519 6163903	682265	1471049	2229932	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chlorobenzene	CBZ	Ave	50977 4864789	108130 9399072	1060860	2247283	3384958	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Ethylbenzene	CBZ	Ave	78857 8044078	179990 14980233	1811830	3802125	5679266	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Nonane	CBZ	Ave	40248 3511101	93305 6095135	894109	1778192	2592849	0.200 20.0	0.500 40.0	5.00	10.0	15.0
m,p-Xylene	CBZ	Ave	61240 6287785	134780 11092494	1398912	2991231	4470560	0.400 40.0	1.00 80.0	10.0	20.0	30.0
Xylene, o-	CBZ	Ave	27255 3083580	63741 5701392	671439	1438531	2170963	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Styrene	CBZ	Ave	34304 4897630	84349 9050348	1033532	2259371	3436791	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoform	CBZ	Ave	19106 3257154	45835 6333815	633933	1442279	2231539	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cumene	CBZ	Ave	77953 8959288	186654 16550907	1974949	4192888	6302998	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	45487 4555675	104080 8157905	1055545	2192836	3276684	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Propylbenzene	CBZ	Ave	107197 10676867	243134 17741470	2507226	5245537	7779802	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,3-Trichloropropane	CBZ	Ave	+++++ 3458010	88772 5755683	867860	1764356	2559369	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Decane	CBZ	Ave	+++++ 4387113	120893 7220379	1166296	2276964	3295005	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
4-Ethyltoluene	CBZ	Ave	89790 9288737	198020 16380370	2057318	4378939	6606758	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2-Chlorotoluene	CBZ	Ave	86775 8204910	192599 14484033	1916438	3955819	5910150	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3,5-Trimethylbenzene	CBZ	Ave	73075 7602105	162380 13700248	1693982	3571246	5367303	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Alpha Methyl Styrene	CBZ	Ave	23585 3958505	58405 7417227	815559	1793699	2752734	0.200 20.0	0.500 40.0	5.00	10.0	15.0
tert-Butylbenzene	CBZ	Ave	66669 7009584	149589 12873188	1536549	3295743	4944345	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-3885-1 Analy Batch No.: 13474

SDG No.: 200-3885

Instrument ID: B.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/09/2011 15:04 Calibration End Date: 02/09/2011 20:19 Calibration ID: 4769

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	73075 7479038	161653 13564126	1682407	3530586	5309760	0.200 20.0	0.500 40.0	5.00	10.0	15.0
sec-Butylbenzene	CBZ	Ave	106893 10664333	234007 18463545	2432578	5092739	7633411	0.200 20.0	0.500 40.0	5.00	10.0	15.0
4-Isopropyltoluene	CBZ	Ave	80806 9074168	183703 16202814	1996822	4259732	6411372	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichlorobenzene	CBZ	Ave	50109 4992295	96631 9333085	1033612	2238953	3440117	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,4-Dichlorobenzene	CBZ	Ave	51976 5054884	98237 9421295	1037091	2241469	3476744	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzyl chloride	CBZ	Ave	70406 7137634	145414 13073070	1641952	3427669	5126118	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Undecane	CBZ	Ave	+++++ 4195711	+++++ 6502589	1266771	2265455	3248038	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
n-Butylbenzene	CBZ	Ave	94035 7876638	200261 12608458	2027034	4075716	5891718	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorobenzene	CBZ	Ave	47717 4715657	94724 8857913	988795	2117730	3252873	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Dodecane	CBZ	Ave	+++++ 4524522	+++++ 5162602	1181486	1951852	3270474	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 4056417	71626 6927306	776823	1537557	2665016	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Hexachlorobutadiene	CBZ	Ave	27881 2877272	58525 4878202	578192	1197842	1876452	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Naphthalene	CBZ	Ave	+++++ 9786673	183860 16244939	1932290	3545288	6532787	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2,3-Trichlorobenzene	CBZ	Ave	36867 3714691	70133 5567561	713685	1372473	2411286	0.200 20.0	0.500 40.0	5.00	10.0	15.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxto15.b/bjx005.d
Lab Smp Id: ic 109459 Client Smp ID: ic 109459
Inj Date : 09-FEB-2011 15:04
Operator : pad Inst ID: B.i
Smp Info : ic 109459
Misc Info : 200,1, level1
Comment :
Method : /chem/B.i/Bsvr.p/bjxto15.b/to15v5.m
Meth Date : 11-Feb-2011 00:13 sv Quant Type: ISTD
Cal Date : 09-FEB-2011 15:04 Cal File: bjx005.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
2 Dichlorodifluoromethane	85	3.045	3.045	(0.331)	28358	0.20000	0.26(a)
3 Chlorodifluoromethane	51	3.077	3.077	(0.334)	13298	0.20000	0.26(a)
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.237	3.232	(0.352)	26883	0.20000	0.24
5 Chloromethane	50	3.349	3.344	(0.364)	6398	0.20000	0.24(a)
6 Butane	43	3.494	3.488	(0.379)	11881	0.20000	0.26(a)
7 Vinyl chloride	62	3.520	3.526	(0.382)	8619	0.20000	0.23
8 1,3-Butadiene	54	3.579	3.579	(0.389)	6034	0.20000	0.23
9 Bromomethane	94	4.139	4.134	(0.449)	13939	0.20000	0.24
10 Chloroethane	64	4.342	4.337	(0.471)	8168	0.20000	0.26(a)
11 2-Methylbutane	43	4.406	4.406	(0.478)	16346	0.20000	0.25
12 Vinyl bromide	106	4.716	4.716	(0.512)	15518	0.20000	0.23
13 Trichlorofluoromethane	101	4.806	4.806	(0.522)	44181	0.20000	0.25
14 Pentane	43	4.934	4.940	(0.536)	29856	0.20000	0.27(a)
16 Ethyl ether	59	5.484	5.425	(0.596)	12811	0.20000	0.23

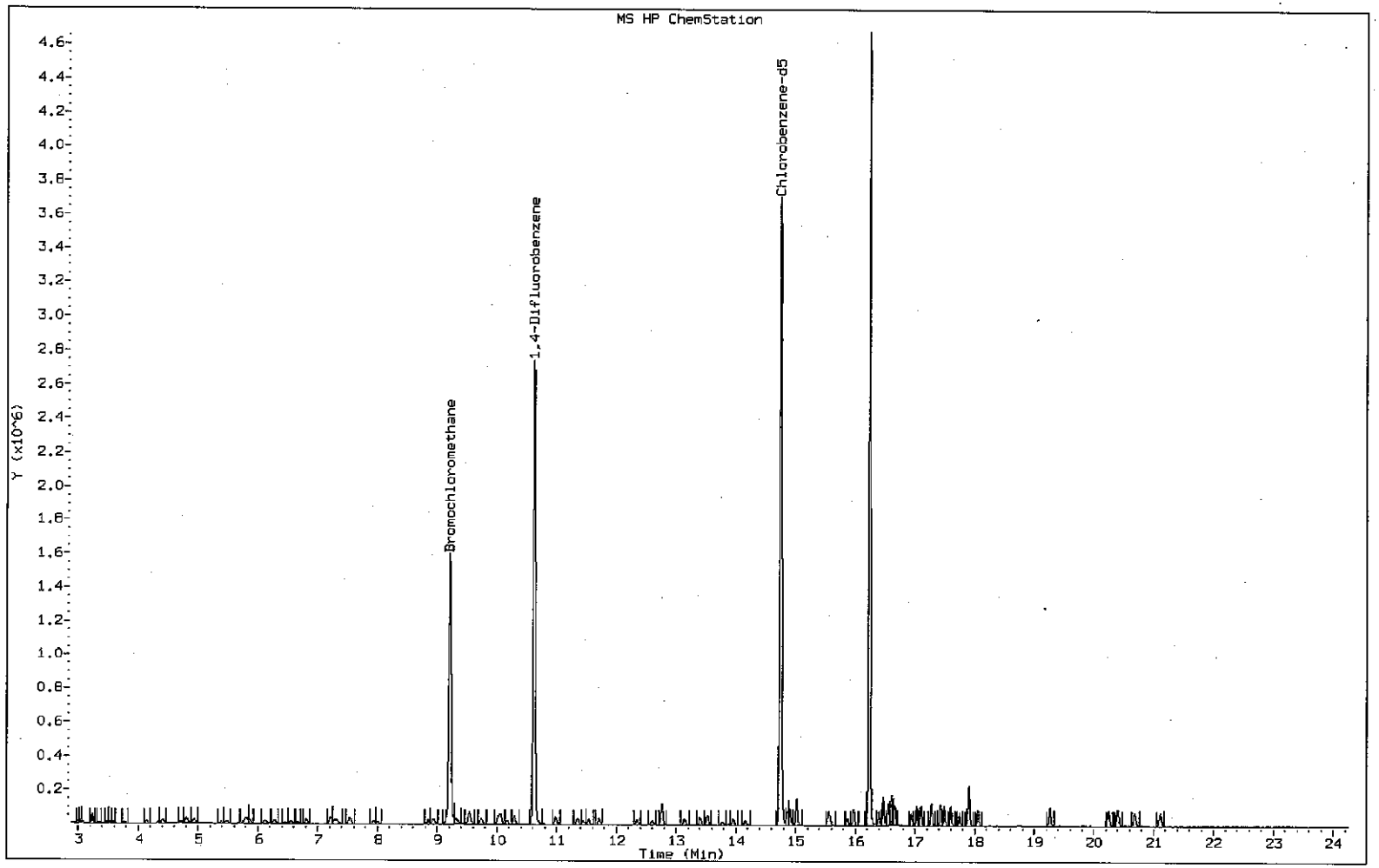
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
17	1,1,2-Trichloro-1,2,2-trifluo	101	5.799	5.804	(0.630)	29292	0.20000	0.23
19	1,1-Dichloroethene	96	5.868	5.868	(0.637)	13417	0.20000	0.22
21	Carbon disulfide	76	6.279	6.279	(0.682)	47842	0.20000	0.23(a)
23	Allyl chloride	41	6.557	6.552	(0.712)	19625	0.20000	0.23
25	Methylene chloride	49	6.813	6.813	(0.740)	22516	0.20000	0.30(a)
27	Methyl tert-butyl ether	73	7.299	7.197	(0.793)	44783	0.20000	0.21
28	1,2-Dichloroethene (trans)	61	7.219	7.219	(0.784)	24572	0.20000	0.23
29	Acrylonitrile	53	7.325	7.299	(0.795)	10874	0.20000	0.22(a)
30	n-Hexane	57	7.544	7.544	(0.819)	26927	0.20000	0.23
31	1,1-Dichloroethane	63	7.944	7.950	(0.863)	30628	0.20000	0.23
M 33	1,2-Dichloroethene,Total	61				39857	0.40000	0.44
34	1,2-Dichloroethene (cis)	96	8.852	8.852	(0.961)	15285	0.20000	0.22
36	Methyl Ethyl Ketone	72	8.926	8.868	(0.969)	6754	0.20000	0.19(aQ)
* 37	Bromochloromethane	128	9.209	9.215	(1.000)	571106	10.0000	
39	Chloroform	83	9.295	9.295	(1.009)	34500	0.20000	0.23
40	Cyclohexane	84	9.551	9.551	(0.899)	23886	0.20000	0.23
41	1,1,1-Trichloroethane	97	9.530	9.540	(0.897)	33206	0.20000	0.22
42	Carbon tetrachloride	117	9.738	9.743	(0.917)	31610	0.20000	0.21
43	2,2,4-Trimethylpentane	57	10.037	10.037	(0.945)	80184	0.20000	0.22
44	Benzene	78	10.063	10.069	(0.948)	52426	0.20000	0.23
45	1,2-Dichloroethane	62	10.170	10.175	(0.958)	24278	0.20000	0.23
46	n-Heptane	43	10.293	10.293	(0.969)	30418	0.20000	0.23
* 47	1,4-Difluorobenzene	114	10.618	10.624	(1.000)	2951877	10.0000	
49	Trichloroethene	95	10.981	10.986	(1.034)	22513	0.20000	0.23
50	1,2-Dichloropropane	63	11.349	11.344	(1.069)	19351	0.20000	0.23
51	Methyl methacrylate	69	11.446	11.419	(1.078)	13426	0.20000	0.17(aQ)
52	Dibromomethane	174	11.542	11.536	(1.087)	14191	0.20000	0.20
53	1,4-Dioxane	88	Compound Not Detected.					
54	Bromodichloromethane	83	11.718	11.712	(1.104)	32840	0.20000	0.20
55	1,3-Dichloropropene (cis)	75	12.353	12.342	(1.163)	25844	0.20000	0.20
56	Methyl isobutyl ketone	43	12.604	12.529	(1.187)	27897	0.20000	0.18(a)
57	n-Octane	43	12.769	12.769	(1.203)	42207	0.20000	0.25(a)
58	Toluene	92	12.764	12.764	(0.865)	37070	0.20000	0.23
59	1,3-Dichloropropene (trans)	75	13.148	13.137	(1.238)	27730	0.20000	0.20
60	1,1,2-Trichloroethane	83	13.404	13.404	(0.909)	17228	0.20000	0.22
61	Tetrachloroethene	166	13.532	13.532	(0.917)	23338	0.20000	0.20
62	2-Hexanone	43	13.767	13.708	(0.933)	25502	0.20000	0.18(a)
63	Dibromochloromethane	129	13.954	13.959	(0.946)	23850	0.20000	0.17(a)
64	1,2-Dibromoethane	107	14.167	14.162	(0.961)	27505	0.20000	0.20
* 65	Chlorobenzene-d5	117	14.749	14.754	(1.000)	2646222	10.0000	
66	Chlorobenzene	112	14.792	14.792	(1.003)	50977	0.20000	0.23
67	n-Nonane	57	14.915	14.914	(1.011)	40248	0.20000	0.24
68	Ethylbenzene	91	14.866	14.872	(1.008)	78857	0.20000	0.22
69	Xylene (m,p)	106	15.021	15.027	(1.018)	61240	0.40000	0.44(a)
M 70	Xylenes, Total	106				88495	0.20000	0.65
71	Xylene (o)	106	15.555	15.550	(1.055)	27255	0.20000	0.21
72	Styrene	104	15.587	15.582	(1.057)	34304	0.20000	0.17(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
73 Bromoform	173	15.875	15.870	(1.076)	19106	0.20000	0.15(a)
74 Isopropylbenzene	105	15.977	15.982	(1.083)	77953	0.20000	0.20
75 1,1,2,2-Tetrachloroethane	83	16.404	16.403	(1.112)	45487	0.20000	0.22
76 n-Propylbenzene	91	16.473	16.473	(1.117)	107197	0.20000	0.22
77 1,2,3-Trichloropropane	75	16.484	16.484	(1.118)	40637	0.20000	0.25(a)
78 n-Decane	57	16.558	16.564	(1.123)	51401	0.20000	0.25(a)
79 4-Ethyltoluene	105	16.601	16.601	(1.126)	89790	0.20000	0.22
80 2-Chlorotoluene	91	16.633	16.633	(1.128)	86775	0.20000	0.23
81 1,3,5-Trimethylbenzene	105	16.670	16.676	(1.130)	73075	0.20000	0.22
82 Alpha Methyl Styrene	118	16.943	16.942	(1.149)	23585	0.20000	0.15(a)
83 tert-butylbenzene	119	17.039	17.039	(1.155)	66669	0.20000	0.22
84 1,2,4-Trimethylbenzene	105	17.108	17.108	(1.160)	73075	0.20000	0.22
85 sec-Butylbenzene	105	17.284	17.284	(1.172)	106893	0.20000	0.23
86 4-Isopropyltoluene	119	17.434	17.439	(1.182)	80806	0.20000	0.21
87 1,3-Dichlorobenzene	146	17.503	17.498	(1.187)	50109	0.20000	0.23
88 1,4-Dichlorobenzene	146	17.610	17.610	(1.194)	51976	0.20000	0.24
89 Benzyl chloride	91	17.754	17.754	(1.204)	70406	0.20000	0.22
91 n-Butylbenzene	91	17.914	17.919	(1.215)	94035	0.20000	0.25
92 1,2-Dichlorobenzene	146	18.058	18.058	(1.224)	47717	0.20000	0.23
94 1,2,4-Trichlorobenzene	180	20.246	20.246	(1.373)	40624	0.20000	0.26(a)
95 1,3-Hexachlorobutadiene	225	20.401	20.401	(1.383)	27881	0.20000	0.23
96 Naphthalene	128	20.678	20.673	(1.402)	98877	0.20000	0.26(a)
97 1,2,3-Trichlorobenzene	180	21.111	21.111	(1.431)	36867	0.20000	0.25

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File:	bjx005.d	Date:	09-FEB-2011 15:04
Client ID:	ic 109459	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 109459		
Lab Sample ID:	ic 109459		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxto15.b/bjx006.d
Lab Smp Id: ic 109450 Client Smp ID: ic 109450
Inj Date : 09-FEB-2011 15:56
Operator : pad Inst ID: B.i
Smp Info : ic 109450
Misc Info : 200,1, level2
Comment :
Method : /chem/B.i/Bsvr.p/bjxto15.b/to15v5.m
Meth Date : 11-Feb-2011 00:13 sv Quant Type: ISTD
Cal Date : 09-FEB-2011 15:56 Cal File: bjx006.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
2 Dichlorodifluoromethane	85	3.045	3.045	(0.331)	64074	0.50000	0.59
3 Chlorodifluoromethane	51	3.077	3.077	(0.334)	29528	0.50000	0.58
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.232	3.232	(0.351)	62733	0.50000	0.56
5 Chloromethane	50	3.344	3.344	(0.363)	14797	0.50000	0.57
6 Butane	43	3.488	3.488	(0.379)	25481	0.50000	0.57
7 Vinyl chloride	62	3.520	3.526	(0.382)	20587	0.50000	0.56
8 1,3-Butadiene	54	3.574	3.579	(0.388)	14106	0.50000	0.55
9 Bromomethane	94	4.134	4.134	(0.449)	31738	0.50000	0.56
10 Chloroethane	64	4.337	4.337	(0.471)	18103	0.50000	0.58
11 2-Methylbutane	43	4.406	4.406	(0.478)	37085	0.50000	0.56
12 Vinyl bromide	106	4.710	4.716	(0.511)	36403	0.50000	0.54
13 Trichlorofluoromethane	101	4.801	4.806	(0.521)	97003	0.50000	0.54
14 Pentane	43	4.934	4.940	(0.536)	65088	0.50000	0.59
15 Ethanol	45	5.345	5.319	(0.580)	148355	5.00000	5.4

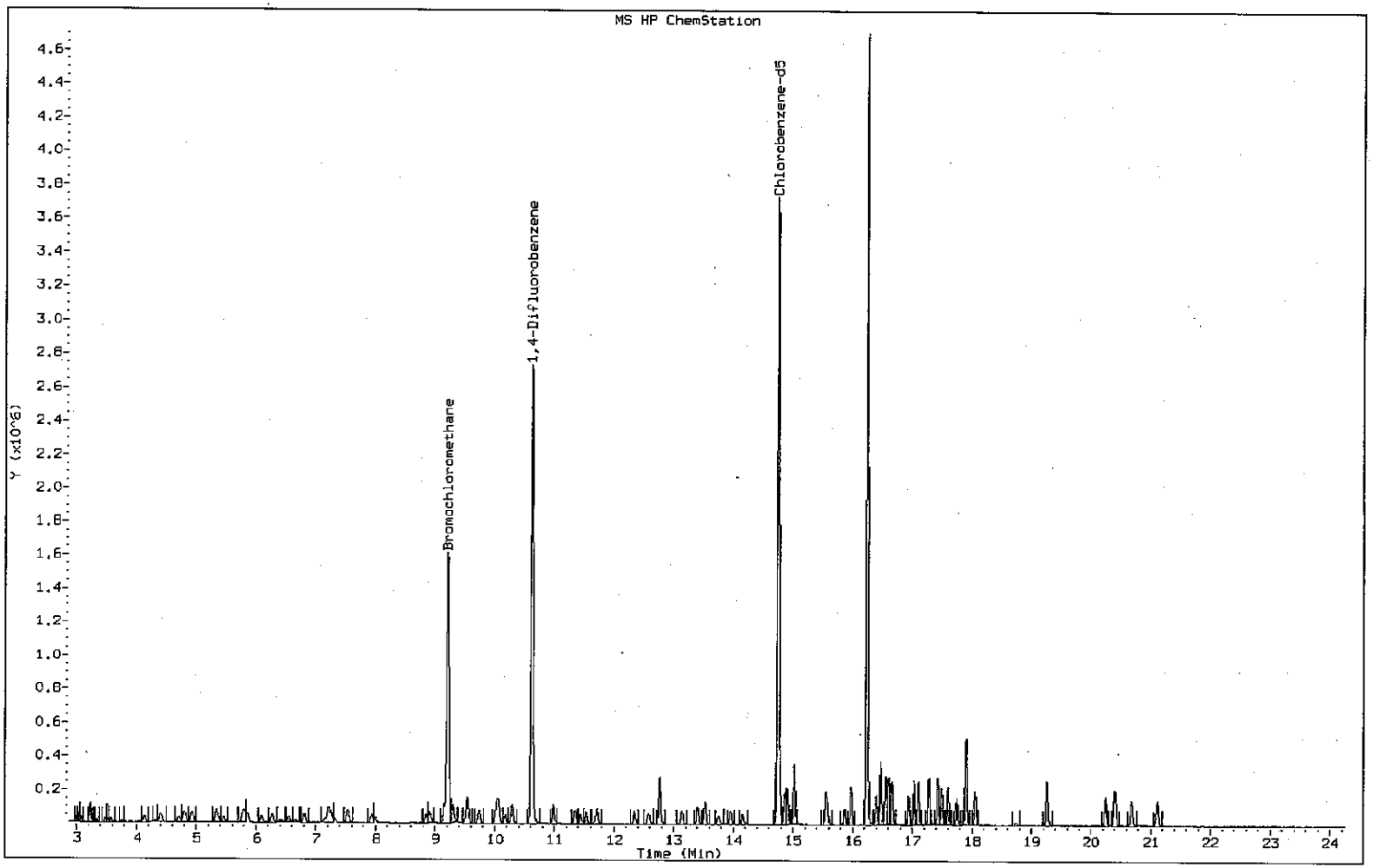
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	16 Ethyl ether	59	5.468	5.425	(0.594)	28516	0.50000	0.52(Q)
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.799	5.804	(0.630)	64999	0.50000	0.52
	19 1,1-Dichloroethene	96	5.874	5.868	(0.638)	30352	0.50000	0.50
	21 Carbon disulfide	76	6.274	6.279	(0.681)	107878	0.50000	0.53
	23 Allyl chloride	41	6.557	6.552	(0.712)	44861	0.50000	0.53
	25 Methylene chloride	49	6.808	6.813	(0.739)	45133	0.50000	0.61
	27 Methyl tert-butyl ether	73	7.251	7.197	(0.787)	106717	0.50000	0.52
	28 1,2-Dichloroethene (trans)	61	7.219	7.219	(0.784)	58432	0.50000	0.55
	29 Acrylonitrile	53	7.315	7.299	(0.794)	26894	0.50000	0.54
	30 n-Hexane	57	7.544	7.544	(0.819)	62192	0.50000	0.53
	31 1,1-Dichloroethane	63	7.950	7.950	(0.863)	71114	0.50000	0.54
M	33 1,2-Dichloroethene,Total	61				94192	1.00000	1.1
	34 1,2-Dichloroethene (cis)	96	8.846	8.852	(0.961)	35760	0.50000	0.51
	36 Methyl Ethyl Ketone	72	8.905	8.868	(0.967)	17827	0.50000	0.51(Q)
*	37 Bromochloromethane	128	9.209	9.215	(1.000)	567354	10.0000	
	39 Chloroform	83	9.295	9.295	(1.009)	77889	0.50000	0.53
	40 Cyclohexane	84	9.546	9.551	(0.899)	52205	0.50000	0.50
	41 1,1,1-Trichloroethane	97	9.540	9.540	(0.898)	77580	0.50000	0.52
	42 Carbon tetrachloride	117	9.738	9.743	(0.917)	74056	0.50000	0.51
	43 2,2,4-Trimethylpentane	57	10.037	10.037	(0.945)	187801	0.50000	0.53
	44 Benzene	78	10.069	10.069	(0.948)	119483	0.50000	0.53
	45 1,2-Dichloroethane	62	10.175	10.175	(0.958)	55341	0.50000	0.53
	46 n-Heptane	43	10.293	10.293	(0.969)	70082	0.50000	0.54
*	47 1,4-Difluorobenzene	114	10.618	10.624	(1.000)	2907579	10.0000	
	49 Trichloroethene	95	10.987	10.986	(1.035)	47294	0.50000	0.49
	50 1,2-Dichloropropane	63	11.349	11.344	(1.069)	43922	0.50000	0.53
	51 Methyl methacrylate	69	11.440	11.419	(1.077)	33050	0.50000	0.43(a)
	52 Dibromomethane	174	11.542	11.536	(1.087)	31125	0.50000	0.44
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	11.712	11.712	(1.103)	79414	0.50000	0.50
	55 1,3-Dichloropropene (cis)	75	12.347	12.342	(1.163)	60180	0.50000	0.48
	56 Methyl isobutyl ketone	43	12.577	12.529	(1.184)	71483	0.50000	0.48(a)
	57 n-Octane	43	12.769	12.769	(1.203)	94272	0.50000	0.56
	58 Toluene	92	12.769	12.764	(0.866)	82411	0.50000	0.51
	59 1,3-Dichloropropene (trans)	75	13.143	13.137	(1.238)	63385	0.50000	0.47
	60 1,1,2-Trichloroethane	83	13.404	13.404	(0.909)	40159	0.50000	0.51
	61 Tetrachloroethene	166	13.527	13.532	(0.917)	53169	0.50000	0.46
	62 2-Hexanone	43	13.751	13.708	(0.932)	62812	0.50000	0.44(a)
	63 Dibromochloromethane	129	13.959	13.959	(0.946)	58288	0.50000	0.42
	64 1,2-Dibromoethane	107	14.167	14.162	(0.961)	62519	0.50000	0.46
*	65 Chlorobenzene-d5	117	14.749	14.754	(1.000)	2635347	10.0000	
	66 Chlorobenzene	112	14.792	14.792	(1.003)	108130	0.50000	0.50(Q)
	67 n-Nonane	57	14.909	14.914	(1.011)	93305	0.50000	0.55
	68 Ethylbenzene	91	14.866	14.872	(1.008)	179990	0.50000	0.50
	69 Xylene (m,p)	106	15.027	15.027	(1.019)	134780	1.00000	0.98
M	70 Xylenes, Total	106				198521	0.50000	1.5
	71 Xylene (o)	106	15.550	15.550	(1.054)	63741	0.50000	0.48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
72 Styrene	104	15.582	15.582	(1.056)	84349	0.50000	0.43
73 Bromoform	173	15.870	15.870	(1.076)	45835	0.50000	0.37
74 Isopropylbenzene	105	15.977	15.982	(1.083)	186654	0.50000	0.48
75 1,1,2,2-Tetrachloroethane	83	16.403	16.403	(1.112)	104080	0.50000	0.51
76 n-Propylbenzene	91	16.468	16.473	(1.117)	243134	0.50000	0.51
77 1,2,3-Trichloropropane	75	16.484	16.484	(1.118)	88772	0.50000	0.56
78 n-Decane	57	16.558	16.564	(1.123)	120893	0.50000	0.58
79 4-Ethyltoluene	105	16.601	16.601	(1.126)	198020	0.50000	0.49
80 2-Chlorotoluene	91	16.633	16.633	(1.128)	192599	0.50000	0.52
81 1,3,5-Trimethylbenzene	105	16.670	16.676	(1.130)	162380	0.50000	0.49
82 Alpha Methyl Styrene	118	16.943	16.942	(1.149)	58405	0.50000	0.38
83 tert-butylbenzene	119	17.033	17.039	(1.155)	149589	0.50000	0.49
84 1,2,4-Trimethylbenzene	105	17.108	17.108	(1.160)	161653	0.50000	0.49
85 sec-Butylbenzene	105	17.284	17.284	(1.172)	234007	0.50000	0.50
86 4-Isopropyltoluene	119	17.433	17.439	(1.182)	183703	0.50000	0.47
87 1,3-Dichlorobenzene	146	17.498	17.498	(1.186)	96631	0.50000	0.45
88 1,4-Dichlorobenzene	146	17.604	17.610	(1.194)	98237	0.50000	0.45
89 Benzyl chloride	91	17.754	17.754	(1.204)	145414	0.50000	0.46
91 n-Butylbenzene	91	17.914	17.919	(1.215)	200261	0.50000	0.53
92 1,2-Dichlorobenzene	146	18.058	18.058	(1.224)	94724	0.50000	0.47
94 1,2,4-Trichlorobenzene	180	20.241	20.246	(1.372)	71626	0.50000	0.46(a)
95 1,3-Hexachlorobutadiene	225	20.406	20.401	(1.384)	58525	0.50000	0.49
96 Naphthalene	128	20.678	20.673	(1.402)	183860	0.50000	0.48(a)
97 1,2,3-Trichlorobenzene	180	21.111	21.111	(1.431)	70133	0.50000	0.48

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File:	bjx006.d	Date:	09-FEB-2011 15:56
Client ID:	ic 109450	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 109450		
Lab Sample ID:	ic 109450		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxto15.b/bjx007.d
Lab Smp Id: ic 109440 Client Smp ID: ic 109440
Inj Date : 09-FEB-2011 16:49
Operator : pad Inst ID: B.i
Smp Info : ic 109440
Misc Info : 200,1, level3
Comment :
Method : /chem/B.i/Bsvr.p/bjxto15.b/to15v5.m
Meth Date : 11-Feb-2011 00:13 sv Quant Type: ISTD
Cal Date : 09-FEB-2011 16:49 Cal File: bjx007.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	2.992	2.992	(0.325)	114715	5.00000	5.5
2 Dichlorodifluoromethane	85	3.045	3.045	(0.331)	607320	5.00000	5.6
3 Chlorodifluoromethane	51	3.072	3.077	(0.334)	285025	5.00000	5.6
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.232	3.232	(0.351)	603437	5.00000	5.4
5 Chloromethane	50	3.339	3.344	(0.363)	143829	5.00000	5.5
6 Butane	43	3.488	3.488	(0.379)	249378	5.00000	5.5
7 Vinyl chloride	62	3.520	3.526	(0.382)	198096	5.00000	5.4
8 1,3-Butadiene	54	3.574	3.579	(0.388)	139037	5.00000	5.4
9 Bromomethane	94	4.134	4.134	(0.449)	303173	5.00000	5.3
10 Chloroethane	64	4.337	4.337	(0.471)	172962	5.00000	5.5
11 2-Methylbutane	43	4.406	4.406	(0.478)	350117	5.00000	5.3
12 Vinyl bromide	106	4.710	4.716	(0.511)	349652	5.00000	5.2
13 Trichlorofluoromethane	101	4.806	4.806	(0.522)	942632	5.00000	5.2
14 Pentane	43	4.934	4.940	(0.536)	603541	5.00000	5.5

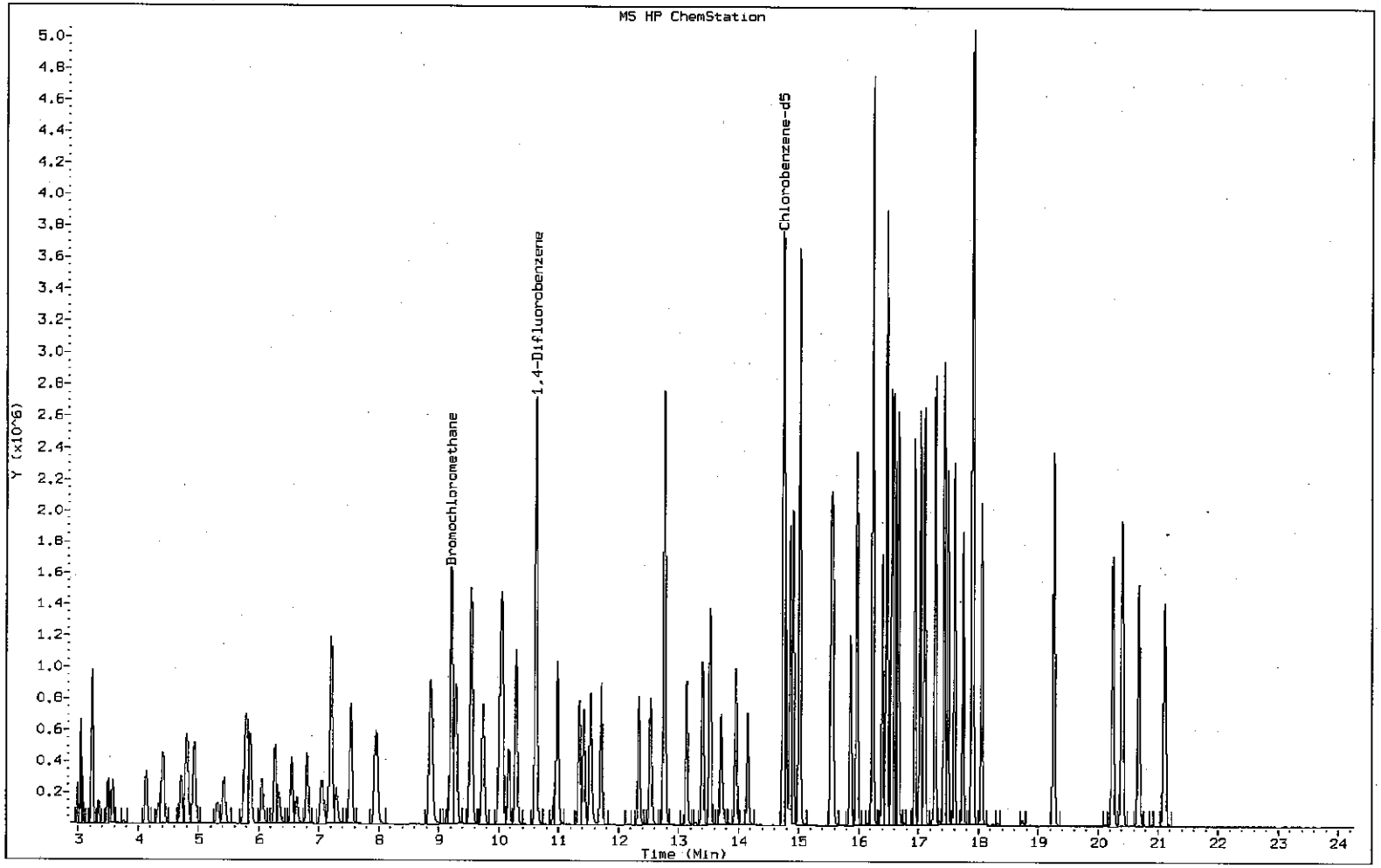
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
	15 Ethanol	45	5.313	5.319	(0.577)	252504	10.0000	9.2
	16 Ethyl ether	59	5.431	5.425	(0.590)	288877	5.00000	5.2
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.799	5.804	(0.630)	632030	5.00000	5.0
	18 Acrolein	56	5.772	5.767	(0.627)	151578	5.00000	5.4
	19 1,1-Dichloroethene	96	5.863	5.868	(0.637)	307169	5.00000	5.0
	20 Acetone	43	6.061	6.055	(0.658)	579957	5.00000	5.8
	21 Carbon disulfide	76	6.274	6.279	(0.681)	1061851	5.00000	5.2
	22 Isopropanol	45	6.343	6.327	(0.689)	441227	5.00000	5.6
	23 Allyl chloride	41	6.551	6.552	(0.711)	446861	5.00000	5.2
	24 Acetonitrile	41	6.637	6.632	(0.721)	283835	5.00000	5.7
	25 Methylene chloride	49	6.808	6.813	(0.739)	403150	5.00000	5.4
	26 Tert-butyl alcohol	59	7.053	7.043	(0.766)	654315	5.00000	5.4
	27 Methyl tert-butyl ether	73	7.203	7.197	(0.782)	1090018	5.00000	5.2
	28 1,2-Dichloroethene (trans)	61	7.213	7.219	(0.783)	566698	5.00000	5.3
	29 Acrylonitrile	53	7.299	7.299	(0.793)	263610	5.00000	5.2
	30 n-Hexane	57	7.539	7.544	(0.819)	618609	5.00000	5.3
	31 1,1-Dichloroethane	63	7.944	7.950	(0.863)	694030	5.00000	5.2
	32 Vinyl acetate	43	7.976	7.976	(0.866)	911841	5.00000	5.5
M	33 1,2-Dichloroethene,Total	61				923556	10.0000	10
	34 1,2-Dichloroethene (cis)	96	8.852	8.852	(0.961)	356858	5.00000	5.0
	35 Ethyl acetate	88	8.894	8.889	(0.966)	31231	5.00000	5.0(Q)
	36 Methyl Ethyl Ketone	72	8.868	8.868	(0.963)	186973	5.00000	5.4(Q)
*	37 Bromochloromethane	128	9.209	9.215	(1.000)	571781	10.0000	
	38 Tetrahydrofuran	42	9.268	9.257	(0.872)	408247	5.00000	5.5
	39 Chloroform	83	9.295	9.295	(1.009)	759920	5.00000	5.1
	40 Cyclohexane	84	9.546	9.551	(0.899)	524347	5.00000	5.0
	41 1,1,1-Trichloroethane	97	9.535	9.540	(0.898)	768140	5.00000	5.1
	42 Carbon tetrachloride	117	9.738	9.743	(0.917)	745044	5.00000	5.1
	43 2,2,4-Trimethylpentane	57	10.031	10.037	(0.944)	1887361	5.00000	5.3
	44 Benzene	78	10.063	10.069	(0.947)	1152945	5.00000	5.1
	45 1,2-Dichloroethane	62	10.170	10.175	(0.957)	536122	5.00000	5.2
	46 n-Heptane	43	10.293	10.293	(0.969)	686718	5.00000	5.3
*	47 1,4-Difluorobenzene	114	10.624	10.624	(1.000)	2914125	10.0000	
	48 n-Butanol	56	10.928	10.917	(1.029)	198804	5.00000	5.1
	49 Trichloroethene	95	10.981	10.986	(1.034)	478366	5.00000	5.0
	50 1,2-Dichloropropane	63	11.344	11.344	(1.068)	429943	5.00000	5.1
	51 Methyl methacrylate	69	11.424	11.419	(1.075)	411871	5.00000	5.3
	52 Dibromomethane	174	11.531	11.536	(1.085)	335934	5.00000	4.8
	53 1,4-Dioxane	88	11.547	11.531	(1.087)	167304	5.00000	5.3
	54 Bromodichloromethane	83	11.712	11.712	(1.102)	824664	5.00000	5.2
	55 1,3-Dichloropropene (cis)	75	12.342	12.342	(1.162)	658296	5.00000	5.2
	56 Methyl isobutyl ketone	43	12.534	12.529	(1.180)	823654	5.00000	5.5
	57 n-Octane	43	12.769	12.769	(1.202)	923229	5.00000	5.5
	58 Toluene	92	12.764	12.764	(0.865)	825370	5.00000	5.0
	59 1,3-Dichloropropene (trans)	75	13.137	13.137	(1.237)	697447	5.00000	5.2
	60 1,1,2-Trichloroethane	83	13.399	13.404	(0.908)	402067	5.00000	5.1
	61 Tetrachloroethene	166	13.532	13.532	(0.917)	546868	5.00000	4.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
	62 2-Hexanone	43	13.714	13.708	(0.930)	784530	5.00000	5.5
	63 Dibromochloromethane	129	13.954	13.959	(0.946)	711404	5.00000	5.1
	64 1,2-Dibromoethane	107	14.157	14.162	(0.960)	682265	5.00000	5.0
*	65 Chlorobenzene-d5	117	14.749	14.754	(1.000)	2642110	10.0000	
	66 Chlorobenzene	112	14.792	14.792	(1.003)	1060860	5.00000	4.9
	67 n-Nonane	57	14.914	14.914	(1.011)	894109	5.00000	5.3
	68 Ethylbenzene	91	14.866	14.872	(1.008)	1811830	5.00000	5.1
	69 Xylene (m,p)	106	15.021	15.027	(1.018)	1398912	10.0000	10
M	70 Xylenes, Total	106				2070351	5.00000	15
	71 Xylene (o)	106	15.550	15.550	(1.054)	671439	5.00000	5.1
	72 Styrene	104	15.576	15.582	(1.056)	1033532	5.00000	5.2
	73 Bromoform	173	15.870	15.870	(1.076)	633933	5.00000	5.1
	74 Isopropylbenzene	105	15.976	15.982	(1.083)	1974949	5.00000	5.1
	75 1,1,2,2-Tetrachloroethane	83	16.403	16.403	(1.112)	1055545	5.00000	5.1
	76 n-Propylbenzene	91	16.467	16.473	(1.117)	2507226	5.00000	5.2
	77 1,2,3-Trichloropropane	75	16.483	16.484	(1.118)	867860	5.00000	5.5
	78 n-Decane	57	16.558	16.564	(1.123)	1166296	5.00000	5.6
	79 4-Ethyltoluene	105	16.601	16.601	(1.126)	2057318	5.00000	5.1
	80 2-Chlorotoluene	91	16.633	16.633	(1.128)	1916438	5.00000	5.1
	81 1,3,5-Trimethylbenzene	105	16.670	16.676	(1.130)	1693982	5.00000	5.1
	82 Alpha Methyl Styrene	118	16.942	16.942	(1.149)	815559	5.00000	5.3
	83 tert-butylbenzene	119	17.039	17.039	(1.155)	1536549	5.00000	5.0
	84 1,2,4-Trimethylbenzene	105	17.108	17.108	(1.160)	1682407	5.00000	5.1
	85 sec-Butylbenzene	105	17.284	17.284	(1.172)	2432578	5.00000	5.1
	86 4-Isopropyltoluene	119	17.433	17.439	(1.182)	1996822	5.00000	5.1
	87 1,3-Dichlorobenzene	146	17.498	17.498	(1.186)	1033612	5.00000	4.8
	88 1,4-Dichlorobenzene	146	17.604	17.610	(1.194)	1037091	5.00000	4.8
	89 Benzyl chloride	91	17.748	17.754	(1.203)	1641952	5.00000	5.2
	90 Undecane	57	17.903	17.903	(1.214)	1266771	5.00000	6.4
	91 n-Butylbenzene	91	17.914	17.919	(1.215)	2027034	5.00000	5.4
	92 1,2-Dichlorobenzene	146	18.058	18.058	(1.224)	988795	5.00000	4.8
	93 Dodecane	57	19.259	19.259	(1.306)	1181486	5.00000	6.3
	94 1,2,4-Trichlorobenzene	180	20.241	20.246	(1.372)	776823	5.00000	5.0
	95 1,3-Hexachlorobutadieue	225	20.395	20.401	(1.383)	578192	5.00000	4.8
	96 Naphthalene	128	20.673	20.673	(1.402)	1932290	5.00000	5.1
	97 1,2,3-Trichlorobenzeue	180	21.111	21.111	(1.431)	713685	5.00000	4.8

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File:	bjx007.d	Date:	09-FEB-2011 16:49
Client ID:	ic 109440	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 109440		
Lab Sample ID:	ic 109440		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxto15.b/bjx008.d
Lab Smp Id: icis 109439 Client Smp ID: icis 109439
Inj Date : 09-FEB-2011 17:41
Operator : pad Inst ID: B.i
Smp Info : icis 109439
Misc Info : 200,1, level4
Comment :
Method : /chem/B.i/Bsvr.p/bjxto15.b/to15v5.m
Meth Date : 11-Feb-2011 00:13 sv Quant Type: ISTD
Cal Date : 09-FEB-2011 17:41 Cal File: bjx008.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

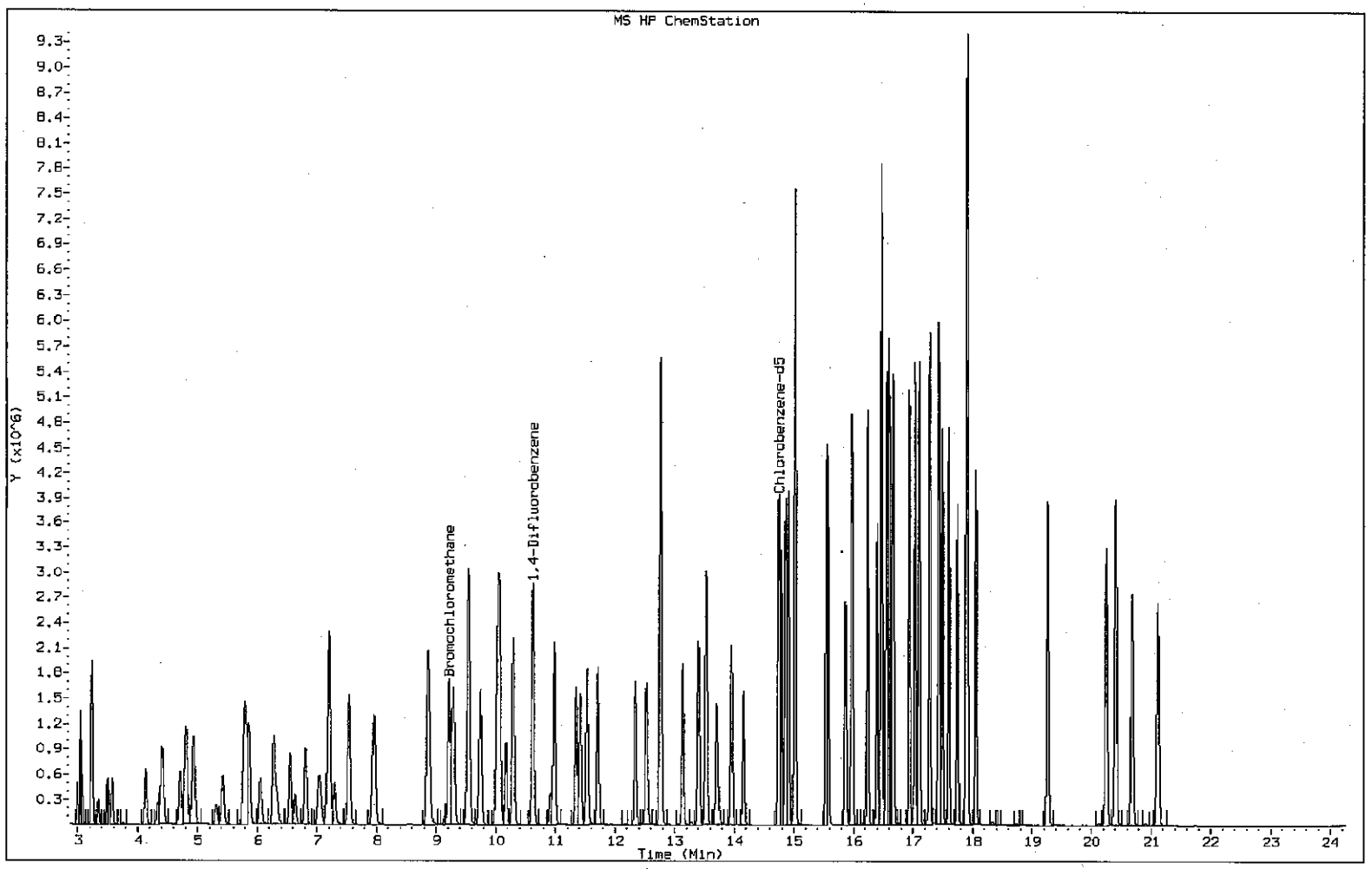
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	2.992	2.992	(0.325)	219264	10.0000	9.8
2 Dichlorodifluoromethane	85	3.045	3.045	(0.330)	1213937	10.0000	10
3 Chlorodifluoromethane	51	3.077	3.077	(0.334)	564944	10.0000	10
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.232	3.232	(0.351)	1211618	10.0000	10
5 Chloromethane	50	3.344	3.344	(0.363)	284700	10.0000	10
6 Butane	43	3.488	3.488	(0.379)	490789	10.0000	10
7 Vinyl chloride	62	3.526	3.526	(0.383)	391036	10.0000	9.9
8 1,3-Butadiene	54	3.579	3.579	(0.388)	278528	10.0000	10
9 Bromomethane	94	4.134	4.134	(0.449)	619285	10.0000	10
10 Chloroethane	64	4.337	4.337	(0.471)	353164	10.0000	10
11 2-Methylbutane	43	4.406	4.406	(0.478)	714361	10.0000	10
12 Vinyl bromide	106	4.716	4.716	(0.512)	733242	10.0000	10
13 Trichlorofluoromethane	101	4.806	4.806	(0.522)	1925207	10.0000	10
14 Pentane	43	4.940	4.940	(0.536)	1243155	10.0000	11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	5.319	5.319	(0.577)	446653	15.0000	15
	16 Ethyl ether	59	5.425	5.425	(0.589)	595277	10.0000	10
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.804	5.804	(0.630)	1333971	10.0000	9.8
	18 Acrolein	56	5.767	5.767	(0.626)	317595	10.0000	11
	19 1,1-Dichloroethene	96	5.868	5.868	(0.637)	652102	10.0000	10
	20 Acetone	43	6.055	6.055	(0.657)	1117917	10.0000	11
	21 Carbon disulfide	76	6.279	6.279	(0.681)	2203742	10.0000	10
	22 Isopropanol	45	6.327	6.327	(0.687)	898290	10.0000	11
	23 Allyl chloride	41	6.552	6.552	(0.711)	919211	10.0000	10
	24 Acetonitrile	41	6.632	6.632	(0.720)	555810	10.0000	10
	25 Methylene chloride	49	6.813	6.813	(0.739)	802926	10.0000	10
	26 Tert-butyl alcohol	59	7.043	7.043	(0.764)	1373369	10.0000	11
	27 Methyl tert-butyl ether	73	7.197	7.197	(0.781)	2274185	10.0000	10
	28 1,2-Dichloroethene (trans)	61	7.219	7.219	(0.783)	1165124	10.0000	10
	29 Acrylonitrile	53	7.299	7.299	(0.792)	551208	10.0000	10
	30 n-Hexane	57	7.544	7.544	(0.819)	1263578	10.0000	10
	31 1,1-Dichloroethane	63	7.950	7.950	(0.863)	1433343	10.0000	10
	32 Vinyl acetate	43	7.976	7.976	(0.866)	1878921	10.0000	11
M	33 1,2-Dichloroethene,Total	61				1932108	20.0000	20
	34 1,2-Dichloroethene (cis)	96	8.852	8.852	(0.961)	766984	10.0000	10
	35 Ethyl acetate	88	8.889	8.889	(0.965)	70679	10.0000	10
	36 Methyl Ethyl Ketone	72	8.868	8.868	(0.962)	388092	10.0000	10
*	37 Bromochloromethane	128	9.215	9.215	(1.000)	611493	10.0000	
	38 Tetrahydrofuran	42	9.257	9.257	(0.871)	829371	10.0000	11
	39 Chloroform	83	9.295	9.295	(1.009)	1563052	10.0000	9.9
	40 Cyclohexane	84	9.551	9.551	(0.899)	1101922	10.0000	10
	41 1,1,1-Trichloroethane	97	9.540	9.540	(0.898)	1596898	10.0000	10
	42 Carbon tetrachloride	117	9.743	9.743	(0.917)	1567730	10.0000	10
	43 2,2,4-Trimethylpentane	57	10.037	10.037	(0.945)	3840095	10.0000	10
	44 Benzene	78	10.069	10.069	(0.948)	2377666	10.0000	9.9
	45 1,2-Dichloroethane	62	10.175	10.175	(0.958)	1098210	10.0000	10
	46 n-Heptane	43	10.293	10.293	(0.969)	1367282	10.0000	10
*	47 1,4-Difluorobenzene	114	10.624	10.624	(1.000)	3090147	10.0000	
	48 n-Butanol	56	10.917	10.917	(1.028)	423422	10.0000	10
	49 Trichloroethene	95	10.986	10.986	(1.034)	1014948	10.0000	9.9
	50 1,2-Dichloropropane	63	11.344	11.344	(1.068)	884199	10.0000	9.9
	51 Methyl methacrylate	69	11.419	11.419	(1.075)	874831	10.0000	11
	52 Dibromomethane	174	11.536	11.536	(1.086)	749996	10.0000	10
	53 1,4-Dioxane	88	11.531	11.531	(1.085)	350747	10.0000	10
	54 Bromodichloromethane	83	11.712	11.712	(1.102)	1718997	10.0000	10
	55 1,3-Dichloropropene (cis)	75	12.342	12.342	(1.162)	1384346	10.0000	10
	56 Methyl isobutyl ketone	43	12.529	12.529	(1.179)	1678035	10.0000	11
	57 n-Octane	43	12.769	12.769	(1.202)	1780655	10.0000	10
	58 Toluene	92	12.764	12.764	(0.865)	1747178	10.0000	10
	59 1,3-Dichloropropene (trans)	75	13.137	13.137	(1.237)	1463869	10.0000	10
	60 1,1,2-Trichloroethane	83	13.404	13.404	(0.908)	840462	10.0000	10
	61 Tetrachloroethene	166	13.532	13.532	(0.917)	1213586	10.0000	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	62 2-Hexanone	43	13.708	13.708	(0.929)	1630444	10.0000	11
	63 Dibromochloromethane	129	13.959	13.959	(0.946)	1559332	10.0000	11
	64 1,2-Dibromoethane	107	14.162	14.162	(0.960)	1471049	10.0000	10
*	65 Chlorobenzene-d5	117	14.754	14.754	(1.000)	2798819	10.0000	
	66 Chlorobenzene	112	14.792	14.792	(1.003)	2247283	10.0000	9.7
	67 n-Nonane	57	14.914	14.914	(1.011)	1778192	10.0000	9.9
	68 Ethylbenzene	91	14.872	14.872	(1.008)	3802125	10.0000	10
	69 Xylene (m,p)	106	15.027	15.027	(1.018)	2991231	20.0000	20
M	70 Xylenes, Total	106				4429762	10.0000	31
	71 Xylene (o)	106	15.550	15.550	(1.054)	1438531	10.0000	10
	72 Styrene	104	15.582	15.582	(1.056)	2259371	10.0000	11
	73 Bromoform	173	15.870	15.870	(1.076)	1442279	10.0000	11
	74 Isopropylbenzene	105	15.982	15.982	(1.083)	4192888	10.0000	10
	75 1,1,2,2-Tetrachloroethane	83	16.403	16.403	(1.112)	2192836	10.0000	10
	76 n-Propylbenzene	91	16.473	16.473	(1.116)	5245537	10.0000	10
	77 1,2,3-Trichloropropane	75	16.484	16.484	(1.117)	1764356	10.0000	10
	78 n-Decane	57	16.564	16.564	(1.123)	2276964	10.0000	10
	79 4-Ethyltoluene	105	16.601	16.601	(1.125)	4378939	10.0000	10
	80 2-Chlorotoluene	91	16.633	16.633	(1.127)	3955819	10.0000	10
	81 1,3,5-Trimethylbenzene	105	16.676	16.676	(1.130)	3571246	10.0000	10
	82 Alpha Methyl Styrene	118	16.942	16.942	(1.148)	1793699	10.0000	11
	83 tert-butylbenzene	119	17.039	17.039	(1.155)	3295743	10.0000	10
	84 1,2,4-Trimethylbenzene	105	17.108	17.108	(1.160)	3530586	10.0000	10
	85 sec-Butylbenzene	105	17.284	17.284	(1.171)	5092739	10.0000	10
	86 4-Isopropyltoluene	119	17.439	17.439	(1.182)	4259732	10.0000	10
	87 1,3-Dichlorobenzene	146	17.498	17.498	(1.186)	2238953	10.0000	9.9
	88 1,4-Dichlorobenzene	146	17.610	17.610	(1.194)	2241469	10.0000	9.7
	89 Benzyl chloride	91	17.754	17.754	(1.203)	3427669	10.0000	10
	90 Undecane	57	17.903	17.903	(1.213)	2265455	10.0000	11
	91 n-Butylbenzene	91	17.919	17.919	(1.214)	4075716	10.0000	10
	92 1,2-Dichlorobenzene	146	18.058	18.058	(1.224)	2117730	10.0000	9.8
	93 Dodecane	57	19.259	19.259	(1.305)	1951852	10.0000	9.9
	94 1,2,4-Trichlorobenzene	180	20.246	20.246	(1.372)	1537557	10.0000	9.3
	95 1,3-Hexachlorobutadiene	225	20.401	20.401	(1.383)	1197842	10.0000	9.5
	96 Naphthalene	128	20.673	20.673	(1.401)	3545288	10.0000	8.8
	97 1,2,3-Trichlorobenzene	180	21.111	21.111	(1.431)	1372473	10.0000	8.8

Data File:	bjx008.d	Date:	09-FEB-2011 17:41
Client ID:	icis 109439	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	icis 109439		
Lab Sample ID:	icis 109439		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxto15.b/bjx009.d
Lab Smp Id: ic 109427 Client Smp ID: ic 109427
Inj Date : 09-FEB-2011 18:34
Operator : pad Inst ID: B.i
Smp Info : ic 109427
Misc Info : 200,1, level5
Comment :
Method : /chem/B.i/Bsvr.p/bjxto15.b/to15v5.m
Meth Date : 11-Feb-2011 00:13 sv Quant Type: ISTD
Cal Date : 09-FEB-2011 18:34 Cal File: bjx009.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

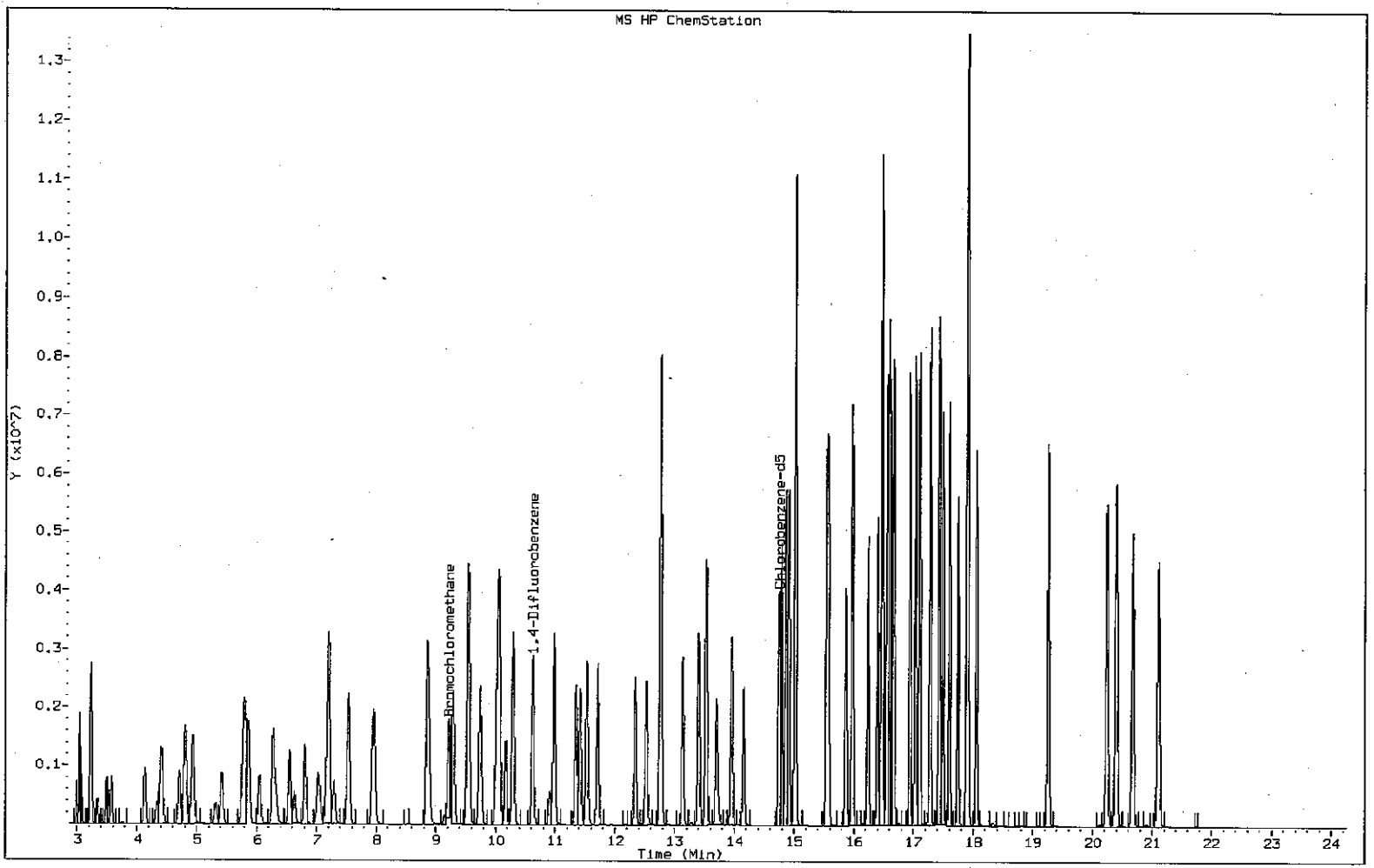
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
1 Propene	41	2.992	2.992	(0.325)	323376	15.0000	14
2 Dichlorodifluoromethane	85	3.045	3.045	(0.330)	1714698	15.0000	14
3 Chlorodifluoromethane	51	3.072	3.077	(0.333)	815096	15.0000	15
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.232	3.232	(0.351)	1726639	15.0000	14
5 Chloromethane	50	3.344	3.344	(0.363)	423605	15.0000	15
6 Butane	43	3.488	3.488	(0.379)	719021	15.0000	15
7 Vinyl chloride	62	3.520	3.526	(0.382)	566999	15.0000	14
8 1,3-Butadiene	54	3.573	3.579	(0.388)	402315	15.0000	14
9 Bromomethane	94	4.134	4.134	(0.449)	881358	15.0000	14
10 Chloroethane	64	4.336	4.337	(0.471)	504913	15.0000	15
11 2-Methylbutane	43	4.411	4.406	(0.479)	1023624	15.0000	14
12 Vinyl bromide	106	4.715	4.716	(0.512)	1070985	15.0000	14
13 Trichlorofluoromethane	101	4.806	4.806	(0.522)	2776881	15.0000	14
14 Pentane	43	4.940	4.940	(0.536)	1808518	15.0000	15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
	15 Ethanol	45	5.313	5.319	(0.577)	641418	20.0000	21
	16 Ethyl ether	59	5.420	5.425	(0.588)	890928	15.0000	15
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.804	5.804	(0.630)	2014826	15.0000	15
	18 Acrolein	56	5.767	5.767	(0.626)	467553	15.0000	15
	19 1,1-Dichloroethene	96	5.868	5.868	(0.637)	994034	15.0000	15
	20 Acetone	43	6.050	6.055	(0.657)	1639678	15.0000	15
	21 Carbon disulfide	76	6.279	6.279	(0.681)	3348404	15.0000	15
	22 Isopropanol	45	6.322	6.327	(0.686)	1325265	15.0000	15
	23 Allyl chloride	41	6.557	6.552	(0.712)	1377121	15.0000	15
	24 Acetonitrile	41	6.631	6.632	(0.720)	860134	15.0000	16
	25 Methylene chloride	49	6.813	6.813	(0.739)	1187174	15.0000	14
	26 Tert-butyl alcohol	59	7.037	7.043	(0.764)	2047834	15.0000	15
	27 Methyl tert-butyl ether	73	7.192	7.197	(0.780)	3393250	15.0000	15
	28 1,2-Dichloroethene (trans)	61	7.213	7.219	(0.783)	1712371	15.0000	14
	29 Acrylonitrile	53	7.298	7.299	(0.792)	828134	15.0000	15
	30 n-Hexane	57	7.539	7.544	(0.818)	1861407	15.0000	14
	31 1,1-Dichloroethane	63	7.944	7.950	(0.862)	2108021	15.0000	14
	32 Vinyl acetate	43	7.976	7.976	(0.866)	2758674	15.0000	15
M	33 1,2-Dichloroethene,Total	61				2873267	30.0000	29
	34 1,2-Dichloroethene (cis)	96	8.852	8.852	(0.961)	1160896	15.0000	15
	35 Ethyl acetate	88	8.889	8.889	(0.965)	104971	15.0000	15
	36 Methyl Ethyl Ketone	72	8.862	8.868	(0.962)	576674	15.0000	15
*	37 Bromochloromethane	128	9.214	9.215	(1.000)	626878	10.0000	
	38 Tetrahydrofuran	42	9.257	9.257	(0.871)	1204789	15.0000	15
	39 Chloroform	83	9.294	9.295	(1.009)	2324468	15.0000	14
	40 Cyclohexane	84	9.545	9.551	(0.899)	1646568	15.0000	15
	41 1,1,1-Trichloroethane	97	9.540	9.540	(0.898)	2364874	15.0000	15
	42 Carbon tetrachloride	117	9.743	9.743	(0.917)	2316150	15.0000	15
	43 2,2,4-Trimethylpentane	57	10.031	10.037	(0.944)	5635680	15.0000	15
	44 Benzene	78	10.068	10.069	(0.948)	3542011	15.0000	14
	45 1,2-Dichloroethane	62	10.175	10.175	(0.958)	1609749	15.0000	14
	46 n-Heptane	43	10.293	10.293	(0.969)	1995167	15.0000	14
*	47 1,4-Difluorobenzene	114	10.623	10.624	(1.000)	3145982	10.0000	
	48 n-Butanol	56	10.906	10.917	(1.027)	644982	15.0000	15
	49 Trichloroethene	95	10.981	10.986	(1.034)	1517682	15.0000	15
	50 1,2-Dichloropropane	63	11.349	11.344	(1.068)	1307498	15.0000	14
	51 Methyl methacrylate	69	11.419	11.419	(1.075)	1306472	15.0000	16
	52 Dibromomethane	174	11.536	11.536	(1.086)	1163397	15.0000	15
	53 1,4-Dioxane	88	11.525	11.531	(1.085)	513774	15.0000	15
	54 Bromodichloromethane	83	11.712	11.712	(1.102)	2559614	15.0000	15
	55 1,3-Dichloropropene (cis)	75	12.342	12.342	(1.162)	2075065	15.0000	15
	56 Methyl isobutyl ketone	43	12.523	12.529	(1.179)	2448466	15.0000	15
	57 n-Octane	43	12.769	12.769	(1.202)	2529951	15.0000	14
	58 Toluene	92	12.763	12.764	(0.865)	2596736	15.0000	15
	59 1,3-Dichloropropene (trans)	75	13.137	13.137	(1.237)	2206515	15.0000	15
	60 1,1,2-Trichloroethane	83	13.404	13.404	(0.908)	1262034	15.0000	15
	61 Tetrachloroethene	166	13.532	13.532	(0.917)	1872660	15.0000	15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
62	2-Hexanone	43	13.708	13.708	(0.929)	2408176	15.0000	16
63	Dibromochloromethane	129	13.959	13.959	(0.946)	2390294	15.0000	16
64	1,2-Dibromoethane	107	14.162	14.162	(0.960)	2229932	15.0000	15
* 65	Chlorobenzene-d5	117	14.754	14.754	(1.000)	2836893	10.0000	
66	Chlorobenzene	112	14.792	14.792	(1.003)	3384958	15.0000	14
67	n-Nonane	57	14.914	14.914	(1.011)	2592849	15.0000	14
68	Ethylbenzene	91	14.866	14.872	(1.008)	5679266	15.0000	15
69	Xylene (m,p)	106	15.026	15.027	(1.018)	4470560	30.0000	30
M 70	Xylenes, Total	106				6641523	15.0000	45
71	Xylene (o)	106	15.549	15.550	(1.054)	2170963	15.0000	15
72	Styrene	104	15.576	15.582	(1.056)	3436791	15.0000	16
73	Bromoform	173	15.870	15.870	(1.076)	2231539	15.0000	17
74	Isopropylbenzene	105	15.976	15.982	(1.083)	6302998	15.0000	15
75	1,1,2,2-Tetrachloroethane	83	16.403	16.403	(1.112)	3276684	15.0000	15
76	n-Propylbenzene	91	16.473	16.473	(1.116)	7779802	15.0000	15
77	1,2,3-Trichloropropane	75	16.483	16.484	(1.117)	2559369	15.0000	15
78	n-Decane	57	16.563	16.564	(1.123)	3295005	15.0000	15
79	4-Ethyltoluene	105	16.601	16.601	(1.125)	6606758	15.0000	15
80	2-Chlorotoluene	91	16.633	16.633	(1.127)	5910150	15.0000	15
81	1,3,5-Trimethylbenzene	105	16.670	16.676	(1.130)	5367303	15.0000	15
82	Alpha Methyl Styrene	118	16.942	16.942	(1.148)	2752734	15.0000	17
83	tert-butylbenzene	119	17.038	17.039	(1.155)	4944345	15.0000	15
84	1,2,4-Trimethylbenzene	105	17.108	17.108	(1.160)	5309760	15.0000	15
85	sec-Butylbenzene	105	17.284	17.284	(1.171)	7633411	15.0000	15
86	4-Isopropyltoluene	119	17.439	17.439	(1.182)	6411372	15.0000	15
87	1,3-Dichlorobenzene	146	17.497	17.498	(1.186)	3440117	15.0000	15
88	1,4-Dichlorobenzene	146	17.604	17.610	(1.193)	3476744	15.0000	15
89	Benzyl chloride	91	17.748	17.754	(1.203)	5126118	15.0000	15
90	Undecane	57	17.903	17.903	(1.213)	3248038	15.0000	15
91	n-Butylbenzene	91	17.914	17.919	(1.214)	5891718	15.0000	15
92	1,2-Dichlorobenzene	146	18.058	18.058	(1.224)	3252873	15.0000	15
93	Dodecane	57	19.259	19.259	(1.305)	3270474	15.0000	16
94	1,2,4-Trichlorobenzene	180	20.241	20.246	(1.372)	2665016	15.0000	16
95	1,3-Hexachlorobutadiene	225	20.401	20.401	(1.383)	1876452	15.0000	15
96	Naphthalene	128	20.673	20.673	(1.401)	6532787	15.0000	16
97	1,2,3-Trichlorobenzene	180	21.105	21.111	(1.430)	2411286	15.0000	15

Data File:	bjx009.d	Date:	09-FEB-2011 18:34
Client ID:	ic 109427	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 109427		
Lab Sample ID:	ic 109427		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxtol5.b/bjx010.d
Lab Smp Id: ic 109426 Client Smp ID: ic 109426
Inj Date : 09-FEB-2011 19:26
Operator : pad Inst ID: B.i
Smp Info : ic 109426
Misc Info : 200,1, level6
Comment :
Method : /chem/B.i/Bsvr.p/bjxto15.b/to15v5.m
Meth Date : 11-Feb-2011 00:13 sv Quant Type: ISTD
Cal Date : 09-FEB-2011 19:26 Cal File: bjx010.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	2.992	2.992	(0.325)	434488	20.0000	18
2 Dichlorodifluoromethane	85	3.045	3.045	(0.330)	2291560	20.0000	18
3 Chlorodifluoromethane	51	3.077	3.077	(0.334)	1088466	20.0000	18
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.237	3.232	(0.351)	2322893	20.0000	18
5 Chloromethane	50	3.344	3.344	(0.363)	563857	20.0000	18
6 Butane	43	3.494	3.488	(0.379)	971484	20.0000	18
7 Vinyl chloride	62	3.520	3.526	(0.382)	767904	20.0000	18
8 1,3-Butadiene	54	3.579	3.579	(0.388)	547702	20.0000	18
9 Bromomethane	94	4.139	4.134	(0.449)	1193759	20.0000	18
10 Chloroethane	64	4.337	4.337	(0.471)	684182	20.0000	18
11 2-Methylbutane	43	4.411	4.406	(0.479)	1342096	20.0000	17
12 Vinyl bromide	106	4.716	4.716	(0.512)	1456368	20.0000	18
13 Trichlorofluoromethane	101	4.812	4.806	(0.522)	3731410	20.0000	18
14 Pentane	43	4.940	4.940	(0.536)	2321859	20.0000	18

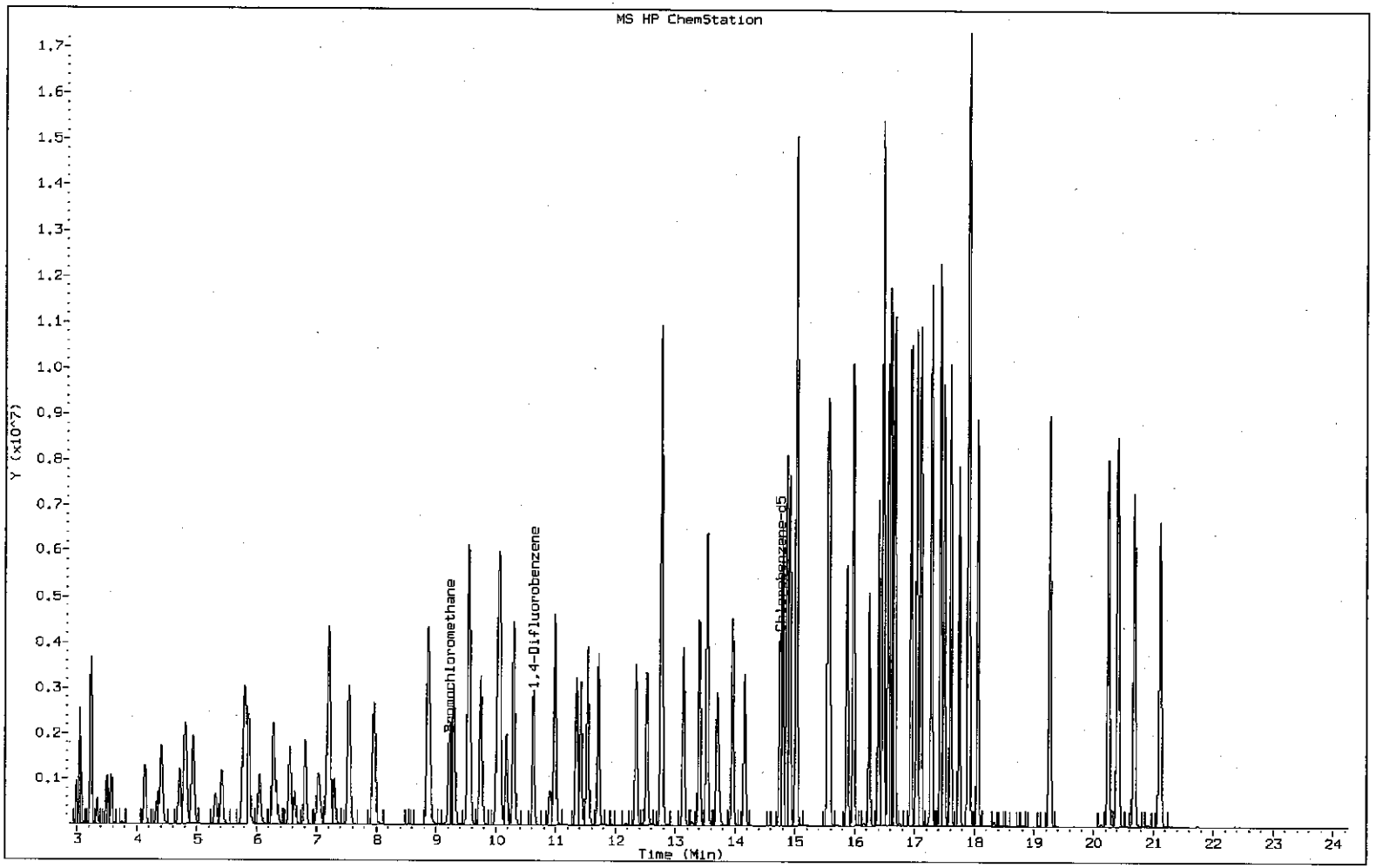
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
	15 Ethanol	45	5.313	5.319	(0.577)	1298326	40.0000	40
	16 Ethyl ether	59	5.420	5.425	(0.588)	1212335	20.0000	19
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.804	5.804	(0.630)	2842340	20.0000	19
	18 Acrolein	56	5.767	5.767	(0.626)	639751	20.0000	19
	19 1,1-Dichloroethene	96	5.868	5.868	(0.637)	1403215	20.0000	19
	20 Acetone	43	6.050	6.055	(0.657)	2167509	20.0000	18
	21 Carbon disulfide	76	6.279	6.279	(0.681)	4657555	20.0000	19
	22 Isopropanol	45	6.327	6.327	(0.687)	1756291	20.0000	19
	23 Allyl chloride	41	6.557	6.552	(0.712)	1820295	20.0000	18
	24 Acetonitrile	41	6.637	6.632	(0.720)	1083889	20.0000	18
	25 Methylene chloride	49	6.813	6.813	(0.739)	1589668	20.0000	18
	26 Tert-butyl alcohol	59	7.037	7.043	(0.764)	2741224	20.0000	19
	27 Methyl tert-butyl ether	73	7.192	7.197	(0.780)	4683706	20.0000	19
	28 1,2-Dichloroethene (trans)	61	7.219	7.219	(0.783)	2315875	20.0000	18
	29 Acrylonitrile	53	7.299	7.299	(0.792)	1138333	20.0000	19
	30 n-Hexane	57	7.544	7.544	(0.819)	2548596	20.0000	18
	31 1,1-Dichloroethane	63	7.950	7.950	(0.863)	2880007	20.0000	18
	32 Vinyl acetate	43	7.977	7.976	(0.866)	3712423	20.0000	19
M	33 1,2-Dichloroethene,Total	61				3954663	40.0000	38
	34 1,2-Dichloroethene (cis)	96	8.852	8.852	(0.961)	1638788	20.0000	20
	35 Ethyl acetate	88	8.889	8.889	(0.965)	150173	20.0000	20
	36 Methyl Ethyl Ketone	72	8.868	8.868	(0.962)	805504	20.0000	20(Q)
*	37 Bromochloromethane	128	9.215	9.215	(1.000)	674498	10.0000	
	38 Tetrahydrofuran	42	9.257	9.257	(0.871)	1631734	20.0000	19
	39 Chloroform	83	9.300	9.295	(1.009)	3219071	20.0000	18
	40 Cyclohexane	84	9.551	9.551	(0.899)	2322680	20.0000	19
	41 1,1,1-Trichloroethane	97	9.540	9.540	(0.898)	3291184	20.0000	19
	42 Carbon tetrachloride	117	9.743	9.743	(0.917)	3242588	20.0000	19
	43 2,2,4-Trimethylpentane	57	10.037	10.037	(0.944)	7725231	20.0000	19
	44 Benzene	78	10.069	10.069	(0.947)	4949901	20.0000	19
	45 1,2-Dichloroethane	62	10.175	10.175	(0.957)	2208828	20.0000	18
	46 n-Heptane	43	10.298	10.293	(0.969)	2698629	20.0000	18
*	47 1,4-Difluorobenzene	114	10.629	10.624	(1.000)	3358872	10.0000	
	48 n-Butanol	56	10.906	10.917	(1.026)	864866	20.0000	19
	49 Trichloroethene	95	10.987	10.986	(1.034)	2136452	20.0000	19
	50 1,2-Dichloropropane	63	11.349	11.344	(1.068)	1813825	20.0000	19
	51 Methyl methacrylate	69	11.424	11.419	(1.075)	1827267	20.0000	20
	52 Dibromomethane	174	11.536	11.536	(1.085)	1718237	20.0000	21
	53 1,4-Dioxane	88	11.526	11.531	(1.084)	700236	20.0000	19
	54 Bromodichloromethane	83	11.718	11.712	(1.102)	3567664	20.0000	20
	55 1,3-Dichloropropene (cis)	75	12.342	12.342	(1.161)	2930688	20.0000	20
	56 Methyl isobutyl ketone	43	12.524	12.529	(1.178)	3304003	20.0000	19
	57 n-Octane	43	12.774	12.769	(1.202)	3330964	20.0000	17
	58 Toluene	92	12.769	12.764	(0.865)	3632323	20.0000	19
	59 1,3-Dichloropropene (trans)	75	13.137	13.137	(1.236)	3080776	20.0000	20
	60 1,1,2-Trichloroethane	83	13.404	13.404	(0.908)	1777773	20.0000	20
	61 Tetrachloroethene	166	13.538	13.532	(0.918)	2745285	20.0000	21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
62	2-Hexanone	43	13.708	13.708	(0.929)	3262477	20.0000	20
63	Dibromochloromethane	129	13.959	13.959	(0.946)	3428090	20.0000	22
64	1,2-Dibromoethane	107	14.162	14.162	(0.960)	3185165	20.0000	20
* 65	Chlorobenzene-d5	117	14.754	14.754	(1.000)	3021095	10.0000	
66	Chlorobenzene	112	14.797	14.792	(1.003)	4864789	20.0000	20
67	n-Nonane	57	14.915	14.914	(1.011)	3511101	20.0000	18
68	Ethylbenzene	91	14.872	14.872	(1.008)	8044078	20.0000	20
69	Xylene (m,p)	106	15.027	15.027	(1.018)	6287785	40.0000	40
M 70	Xylenes, Total	106				9371365	20.0000	60
71	Xylene (o)	106	15.555	15.550	(1.054)	3083580	20.0000	20
72	Styrene	104	15.582	15.582	(1.056)	4897630	20.0000	22
73	Bromoform	173	15.875	15.870	(1.076)	3257154	20.0000	23
74	Isopropylbenzene	105	15.982	15.982	(1.083)	8959288	20.0000	20
75	1,1,2,2-Tetrachloroethane	83	16.409	16.403	(1.112)	4555675	20.0000	19
76	n-Propylbenzene	91	16.473	16.473	(1.116)	10676867	20.0000	19
77	1,2,3-Trichloropropane	75	16.484	16.484	(1.117)	3458010	20.0000	19
78	n-Decane	57	16.564	16.564	(1.123)	4387113	20.0000	18
79	4-Ethyltoluene	105	16.606	16.601	(1.125)	9288737	20.0000	20
80	2-Chlorotoluene	91	16.638	16.633	(1.128)	8204910	20.0000	19
81	1,3,5-Trimethylbenzene	105	16.676	16.676	(1.130)	7602105	20.0000	20
82	Alpha Methyl Styrene	118	16.948	16.942	(1.149)	3958505	20.0000	23
83	tert-butylbenzene	119	17.044	17.039	(1.155)	7009584	20.0000	20
84	1,2,4-Trimethylbenzene	105	17.113	17.108	(1.160)	7479038	20.0000	20
85	sec-Butylbenzene	105	17.289	17.284	(1.172)	10664333	20.0000	20
86	4-Isopropyltoluene	119	17.439	17.439	(1.182)	9074168	20.0000	20
87	1,3-Dichlorobenzene	146	17.503	17.498	(1.186)	4992295	20.0000	20
88	1,4-Dichlorobenzene	146	17.610	17.610	(1.194)	5054884	20.0000	20
89	Benzyl chloride	91	17.754	17.754	(1.203)	7137634	20.0000	20
90	Undecane	57	17.903	17.903	(1.213)	4195711	20.0000	18
91	n-Butylbenzene	91	17.919	17.919	(1.214)	7876638	20.0000	18
92	1,2-Dichlorobenzene	146	18.063	18.058	(1.224)	4715657	20.0000	20
93	Dodecane	57	19.264	19.259	(1.306)	4524522	20.0000	21
94	1,2,4-Trichlorobenzene	180	20.246	20.246	(1.372)	4056417	20.0000	23
95	1,3-Hexachlorobutadiene	225	20.401	20.401	(1.383)	2877272	20.0000	21
96	Naphthalene	128	20.678	20.673	(1.401)	9786673	20.0000	23
97	1,2,3-Trichlorobenzene	180	21.111	21.111	(1.431)	3714691	20.0000	22

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File:	bjx010.d	Date:	09-FEB-2011 19:26
Client ID:	ic 109426	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 109426		
Lab Sample ID:	ic 109426		



TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxto15.b/bjx011.d
Lab Smp Id: ic 109424 Client Smp ID: ic 109424
Inj Date : 09-FEB-2011 20:19
Operator : pad Inst ID: B.i
Smp Info : ic 109424
Misc Info : 200,1, level7
Comment :
Method : /chem/B.i/Bsvr.p/bjxto15.b/to15v5.m
Meth Date : 11-Feb-2011 00:13 sv Quant Type: ISTD
Cal Date : 09-FEB-2011 20:19 Cal File: bjx011.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	2.992	2.992	(0.324)	818228	40.0000	33
2 Dichlorodifluoromethane	85	3.045	3.045	(0.330)	4169055	40.0000	32
3 Chlorodifluoromethane	51	3.072	3.077	(0.333)	2030018	40.0000	33
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.232	3.232	(0.351)	4258588	40.0000	31
5 Chloromethane	50	3.339	3.344	(0.362)	1089942	40.0000	34
6 Butane	43	3.488	3.488	(0.378)	1818845	40.0000	34
7 Vinyl chloride	62	3.520	3.526	(0.382)	1443391	40.0000	33
8 1,3-Butadiene	54	3.574	3.579	(0.388)	1033177	40.0000	33
9 Bromomethane	94	4.134	4.134	(0.448)	2222419	40.0000	32
10 Chloroethane	64	4.337	4.337	(0.470)	1263508	40.0000	33
11 2-Methylbutane	43	4.412	4.406	(0.478)	2437477	40.0000	31
12 Vinyl bromide	106	4.716	4.716	(0.511)	2801914	40.0000	34
13 Trichlorofluoromethane	101	4.812	4.806	(0.522)	6999514	40.0000	32
14 Pentane	43	4.940	4.940	(0.536)	4224339	40.0000	32

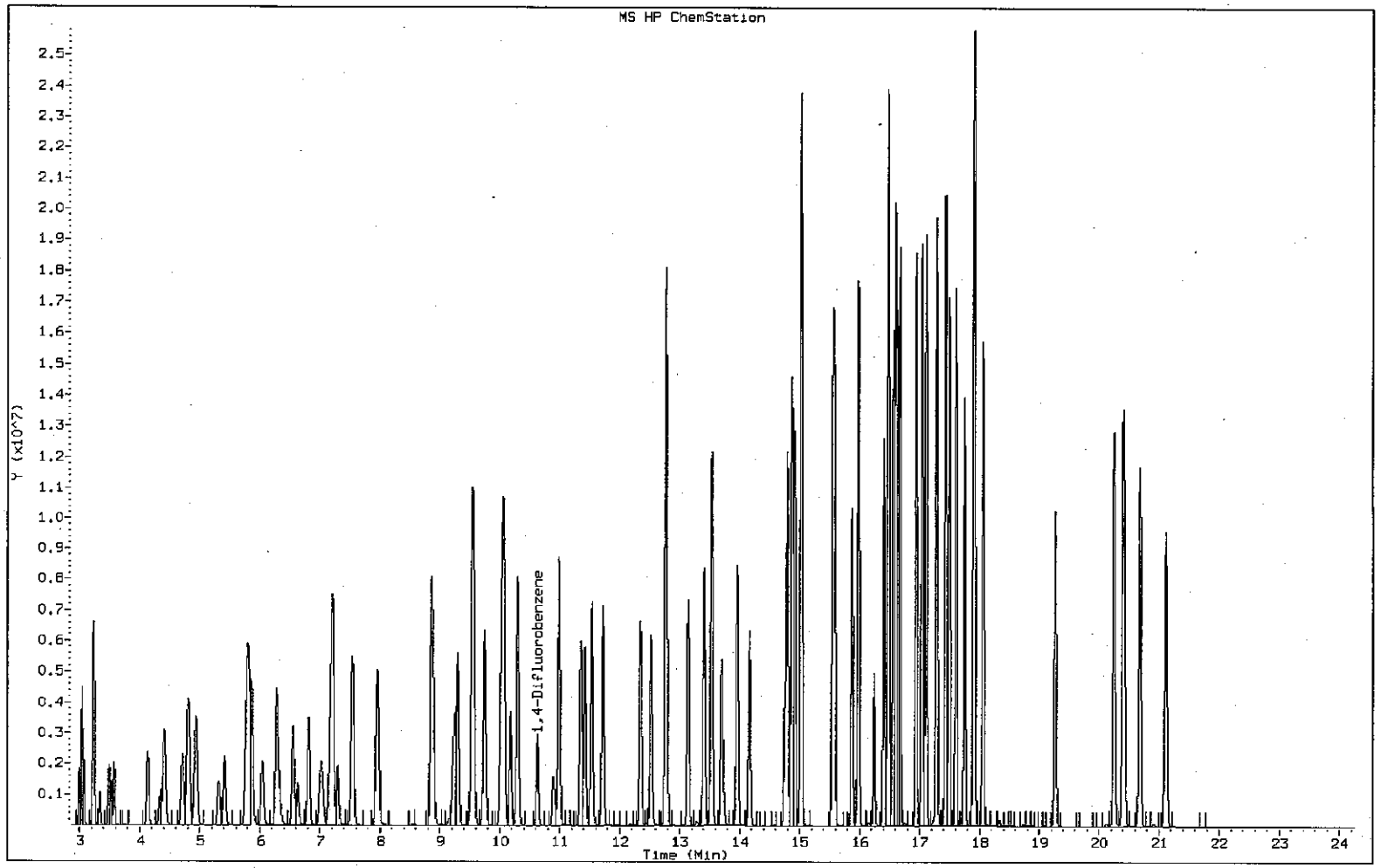
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
	15 Ethanol	45	5.319	5.319	(0.577)	3089208	100.000	93
	16 Ethyl ether	59	5.415	5.425	(0.587)	2286639	40.0000	34
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.804	5.804	(0.630)	5562723	40.0000	36
	18 Acrolein	56	5.762	5.767	(0.625)	1192898	40.0000	35
	19 1,1-Dichloroethene	96	5.869	5.868	(0.636)	2801029	40.0000	38(Q)
	20 Acetone	43	6.045	6.055	(0.656)	4111494	40.0000	34
	21 Carbon disulfide	76	6.279	6.279	(0.681)	9065661	40.0000	37
	22 Isopropanol	45	6.322	6.327	(0.686)	3361214	40.0000	35
	23 Allyl chloride	41	6.557	6.552	(0.711)	3444925	40.0000	34
	24 Acetonitrile	41	6.637	6.632	(0.720)	2031052	40.0000	34
	25 Methylene chloride	49	6.813	6.813	(0.739)	2983609	40.0000	33
	26 Tert-butyl alcohol	59	7.027	7.043	(0.762)	5289949	40.0000	36
	27 Methyl tert-butyl ether	73	7.187	7.197	(0.779)	8976517	40.0000	36
	28 1,2-Dichloroethene (trans)	61	7.219	7.219	(0.783)	4319426	40.0000	33
	29 Acrylonitrile	53	7.299	7.299	(0.792)	2166518	40.0000	36
	30 n-Hexane	57	7.544	7.544	(0.818)	4739410	40.0000	34
	31 1,1-Dichloroethane	63	7.950	7.950	(0.862)	5405647	40.0000	34
	32 Vinyl acetate	43	7.977	7.976	(0.865)	6834592	40.0000	34
M	33 1,2-Dichloroethene,Total	61				7476686	80.0000	70
	34 1,2-Dichloroethene (cis)	96	8.852	8.852	(0.960)	3157260	40.0000	37
	35 Ethyl acetate	88	8.889	8.889	(0.964)	286443	40.0000	38
	36 Methyl Ethyl Ketone	72	8.863	8.868	(0.961)	1487970	40.0000	35(Q)
*	37 Bromochloromethane	128	9.220	9.215	(1.000)	689184	10.0000	(Q)
	38 Tetrahydrofuran	42	9.252	9.257	(0.870)	2989858	40.0000	35
	39 Chloroform	83	9.300	9.295	(1.009)	6183560	40.0000	35
	40 Cyclohexane	84	9.551	9.551	(0.899)	4381469	40.0000	37
	41 1,1,1-Trichloroethane	97	9.540	9.540	(0.898)	6259099	40.0000	36
	42 Carbon tetrachloride	117	9.748	9.743	(0.917)	6379778	40.0000	38
	43 2,2,4-Trimethylpentane	57	10.037	10.037	(0.944)	14141338	40.0000	35
	44 Benzene	78	10.069	10.069	(0.947)	9296726	40.0000	36
	45 1,2-Dichloroethane	62	10.175	10.175	(0.957)	4189973	40.0000	35
	46 n-Heptane	43	10.298	10.293	(0.969)	4857749	40.0000	33
*	47 1,4-Difluorobenzene	114	10.629	10.624	(1.000)	3339561	10.0000	
	48 n-Butanol	56	10.896	10.917	(1.025)	1738166	40.0000	39
	49 Trichloroethene	95	10.987	10.986	(1.034)	4111318	40.0000	37
	50 1,2-Dichloropropane	63	11.350	11.344	(1.068)	3410098	40.0000	36
	51 Methyl methacrylate	69	11.424	11.419	(1.075)	3475594	40.0000	39
	52 Dibromomethane	174	11.542	11.536	(1.086)	3493618	40.0000	43(A)
	53 1,4-Dioxane	88	11.520	11.531	(1.084)	1328603	40.0000	37
	54 Bromodichloromethane	83	11.718	11.712	(1.102)	6811668	40.0000	37
	55 1,3-Dichloropropene (cis)	75	12.348	12.342	(1.162)	5612024	40.0000	39
	56 Methyl isobutyl ketone	43	12.524	12.529	(1.178)	6069872	40.0000	36
	57 n-Octane	43	12.774	12.769	(1.202)	5586045	40.0000	29
	58 Toluene	92	12.769	12.764	(0.865)	6573877	40.0000	35
	59 1,3-Dichloropropene (trans)	75	13.143	13.137	(1.236)	5846047	40.0000	38
	60 1,1,2-Trichloroethane	83	13.410	13.404	(0.909)	3330025	40.0000	37
	61 Tetrachloroethene	166	13.538	13.532	(0.918)	5496168	40.0000	42(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
62	2-Hexanone	43	13.703	13.708	(0.929)	6015064	40.0000	37
63	Dibromochloromethane	129	13.965	13.959	(0.946)	6712809	40.0000	43(A)
64	1,2-Dibromoethane	107	14.167	14.162	(0.960)	6163903	40.0000	40
* 65	Chlorobenzene-d5	117	14.754	14.754	(1.000)	3004844	10.0000	
66	Chlorobenzene	112	14.797	14.792	(1.003)	9399072	40.0000	38
67	n-Nonane	57	14.920	14.914	(1.011)	6095135	40.0000	32
68	Ethylbenzene	91	14.872	14.872	(1.008)	14980233	40.0000	37
69	Xylene (m,p)	106	15.032	15.027	(1.019)	11092494	80.0000	71
M 70	Xylenes, Total	106				16793886	40.0000	110
71	Xylene (o)	106	15.555	15.550	(1.054)	5701392	40.0000	38
72	Styrene	104	15.582	15.582	(1.056)	9050348	40.0000	40(A)
73	Bromoform	173	15.875	15.870	(1.076)	6333815	40.0000	45(A)
74	Isopropylbenzene	105	15.982	15.982	(1.083)	16550907	40.0000	38
75	1,1,2,2-Tetrachloroethane	83	16.409	16.403	(1.112)	8157905	40.0000	35
76	n-Propylbenzene	91	16.473	16.473	(1.116)	17741470	40.0000	33
77	1,2,3-Trichloropropane	75	16.489	16.484	(1.118)	5755683	40.0000	32
78	n-Decane	57	16.569	16.564	(1.123)	7220379	40.0000	31
79	4-Ethyltoluene	105	16.606	16.601	(1.125)	16380370	40.0000	35
80	2-Chlorotoluene	91	16.638	16.633	(1.128)	14484033	40.0000	34
81	1,3,5-Trimethylbenzene	105	16.676	16.676	(1.130)	13700248	40.0000	36
82	Alpha Methyl Styrene	118	16.948	16.942	(1.149)	7417227	40.0000	42(A)
83	tert-butylbenzene	119	17.044	17.039	(1.155)	12873188	40.0000	37
84	1,2,4-Trimethylbenzene	105	17.113	17.108	(1.160)	13564126	40.0000	36
85	sec-Butylbenzene	105	17.290	17.284	(1.172)	18463545	40.0000	34
86	4-Isopropyltoluene	119	17.444	17.439	(1.182)	16202814	40.0000	37
87	1,3-Dichlorobenzene	146	17.503	17.498	(1.186)	9333085	40.0000	38
88	1,4-Dichlorobenzene	146	17.610	17.610	(1.194)	9421295	40.0000	38
89	Benzyl chloride	91	17.754	17.754	(1.203)	13073070	40.0000	36
90	Undecane	57	17.903	17.903	(1.213)	6502589	40.0000	29
91	n-Butylbenzene	91	17.925	17.919	(1.215)	12608458	40.0000	29
92	1,2-Dichlorobenzene	146	18.063	18.058	(1.224)	8857913	40.0000	38
93	Dodecane	57	19.264	19.259	(1.306)	5162602	40.0000	24
94	1,2,4-Trichlorobenzene	180	20.246	20.246	(1.372)	6927306	40.0000	39
95	1,3-Hexachlorobutadiene	225	20.401	20.401	(1.383)	4878202	40.0000	36
96	Naphthalene	128	20.678	20.673	(1.401)	16244939	40.0000	38
97	1,2,3-Trichlorobenzene	180	21.111	21.111	(1.431)	5567561	40.0000	33

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File:	bjx011.d	Date:	09-FEB-2011 20:19
Client ID:	ic 109424	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ic 109424		
Lab Sample ID:	ic 109424		



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Lab Sample ID: ICV 200-13474/14 Calibration Date: 02/09/2011 22:56

Instrument ID: B.i Calib Start Date: 02/09/2011 15:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 02/09/2011 20:19

Lab File ID: bjx014.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: icv 97891

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.3643	0.3077		8.44	10.0	-15.6	30.0
Dichlorodifluoromethane	Ave	1.900	1.645		8.66	10.0	-13.4	30.0
Freon 22	Ave	0.8953	0.7950		8.88	10.0	-11.2	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.966	1.695		8.62	10.0	-13.8	30.0
Chloromethane	Ave	0.4590	0.4154		9.05	10.0	-9.5	30.0
n-Butane	Ave	0.7863	0.6958		8.85	10.0	-11.5	30.0
Vinyl chloride	Ave	0.6441	0.5616		8.72	10.0	-12.8	30.0
1,3-Butadiene	Ave	0.4537	0.4090		9.01	10.0	-9.8	30.0
Bromomethane	Ave	1.006	0.8483		8.43	10.0	-15.7	30.0
Chloroethane	Ave	0.5539	0.4994		9.02	10.0	-9.8	30.0
Isopentane	Ave	1.157	1.009		8.72	10.0	-12.8	30.0
Bromoethene(Vinyl Bromide)	Ave	1.186	1.096		9.24	10.0	-7.5	30.0
Trichlorofluoromethane	Ave	3.142	2.686		8.55	10.0	-14.5	30.0
n-Pentane	Ave	1.936	1.740		8.99	10.0	-10.1	30.0
Ethanol	Ave	0.4821	0.4571		14.3	15.0	-5.2	30.0
Ethyl ether	Ave	0.9695	0.9061		9.34	10.0	-6.5	30.0
Acrolein	Ave	0.4908	0.3844		7.83	10.0	-21.7	30.0
Freon TF	Ave	2.217	2.278		10.3	10.0	2.8	30.0
1,1-Dichloroethene	Ave	1.071	1.164		10.9	10.0	8.6	30.0
Acetone	Ave	1.740	1.897		10.9	10.0	9.0	30.0
Carbon disulfide	Ave	3.570	3.592		10.1	10.0	0.6	30.0
Isopropyl alcohol	Ave	1.389	1.280		9.22	10.0	-7.8	30.0
3-Chloropropene	Ave	1.490	1.462		9.81	10.0	-1.9	30.0
Acetonitrile	Ave	0.8713	0.8946		10.3	10.0	2.7	30.0
Methylene Chloride	Ave	1.306	1.353		10.4	10.0	3.6	30.0
tert-Butyl alcohol	Ave	2.133	2.023		9.48	10.0	-5.2	30.0
Methyl tert-butyl ether	Ave	3.650	3.570		9.78	10.0	-2.2	30.0
trans-1,2-Dichloroethene	Ave	1.886	1.816		9.62	10.0	-3.7	30.0
Acrylonitrile	Ave	0.7546	0.8836		10.0	10.0	17.1	30.0
n-Hexane	Ave	2.053	2.033		9.90	10.0	-0.9	30.0
1,1-Dichloroethane	Ave	2.328	2.251		9.67	10.0	-3.3	30.0
Vinyl acetate	Ave	2.885	2.896		10.0	10.0	0.4	30.0
cis-1,2-Dichloroethene	Ave	1.242	1.236		9.95	10.0	-0.5	30.0
Methyl Ethyl Ketone	Ave	0.6112	0.6273		10.3	10.0	2.6	30.0
Ethyl acetate	Ave	0.1103	0.1104		10.0	10.0	0.0	30.0
Tetrahydrofuran	Ave	0.2541	0.2481		9.76	10.0	-2.4	30.0
Chloroform	Ave	2.583	2.385		9.23	10.0	-7.7	30.0
1,1,1-Trichloroethane	Ave	0.5142	0.4613		8.97	10.0	-10.3	30.0
Cyclohexane	Ave	0.3575	0.3437		9.61	10.0	-3.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Lab Sample ID: ICV 200-13474/14 Calibration Date: 02/09/2011 22:56

Instrument ID: B.i Calib Start Date: 02/09/2011 15:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 02/09/2011 20:19

Lab File ID: bjx014.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: icv 97891

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.5021	0.4403		8.77	10.0	-12.3	30.0
2,2,4-Trimethylpentane	Ave	1.227	1.199		9.77	10.0	-2.3	30.0
Benzene	Ave	0.7791	0.7405		9.50	10.0	-5.0	30.0
1,2-Dichloroethane	Ave	0.3570	0.3194		8.94	10.0	-10.5	30.0
n-Heptane	Ave	0.4427	0.4217		9.52	10.0	-4.8	30.0
n-Butanol	Ave	0.1338	0.1039		7.76	10.0	-22.4	30.0
Trichloroethene	Ave	0.3301	0.3030		9.18	10.0	-8.2	30.0
1,2-Dichloropropane	Ave	0.2876	0.2670		9.28	10.0	-7.2	30.0
Methyl methacrylate	Ave	0.2670	0.2607		9.76	10.0	-2.4	30.0
1,4-Dioxane	Ave	0.1082	0.0891		8.23	10.0	-17.7	30.0
Dibromomethane	Ave	0.2417	0.2266		9.38	10.0	-6.2	30.0
Bromodichloromethane	Ave	0.5440	0.5153		9.47	10.0	-5.3	30.0
cis-1,3-Dichloropropene	Ave	0.4354	0.4071		9.35	10.0	-6.5	30.0
methyl isobutyl ketone	Ave	0.5108	0.5053		9.89	10.0	-1.1	30.0
Toluene	Ave	0.6190	0.5817		9.40	10.0	-6.0	30.0
n-Octane	Ave	0.5748	0.5382		9.36	10.0	-6.4	30.0
trans-1,3-Dichloropropene	Ave	0.4603	0.4212		9.15	10.0	-8.5	30.0
1,1,2-Trichloroethane	Ave	0.3004	0.2704		9.00	10.0	-10.0	30.0
Tetrachloroethene	Ave	0.4348	0.3953		9.09	10.0	-9.1	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.5432	0.5385		9.91	10.0	-0.9	30.0
Dibromochloromethane	Ave	0.5252	0.5168		9.84	10.0	-1.6	30.0
1,2-Dibromoethane	Ave	0.5143	0.4739		9.21	10.0	-7.9	30.0
Chlorobenzene	Ave	0.8246	0.7351		8.91	10.0	-10.9	30.0
Ethylbenzene	Ave	1.357	1.257		9.26	10.0	-7.4	30.0
n-Nonane	Ave	0.6398	0.6041		9.44	10.0	-5.6	30.0
m,p-Xylene	Ave	0.5230	0.4818		18.4	20.0	-7.9	30.0
Xylene, o-	Ave	0.5023	0.4658		9.27	10.0	-7.3	30.0
Styrene	Ave	0.7499	0.7282		9.71	10.0	-2.9	30.0
Bromoform	Ave	0.4706	0.4737		10.1	10.0	0.6	30.0
Cumene	Ave	1.461	1.390		9.52	10.0	-4.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7764	0.7108		9.15	10.0	-8.5	30.0
n-Propylbenzene	Ave	1.816	1.725		9.50	10.0	-5.0	30.0
1,2,3-Trichloropropane	Ave	0.6023	0.5780		9.59	10.0	-4.0	30.0
n-Decane	Ave	0.7858	0.7743		9.85	10.0	-1.5	30.0
4-Ethyltoluene	Ave	1.539	1.472		9.56	10.0	-4.3	30.0
2-Chlorotoluene	Ave	1.417	1.321		9.33	10.0	-6.7	30.0
1,3,5-Trimethylbenzene	Ave	1.262	1.151		9.12	10.0	-8.8	30.0
Alpha Methyl Styrene	Ave	0.5809	0.5817		10.0	10.0	0.1	30.0
tert-Butylbenzene	Ave	1.161	1.083		9.33	10.0	-6.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Lab Sample ID: ICV 200-13474/14 Calibration Date: 02/09/2011 22:56

Instrument ID: B.i Calib Start Date: 02/09/2011 15:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 02/09/2011 20:19

Lab File ID: bjx014.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: icv 97891

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trimethylbenzene	Ave	1.251	1.122		8.97	10.0	-10.3	30.0
sec-Butylbenzene	Ave	1.793	1.685		9.40	10.0	-6.0	30.0
4-Isopropyltoluene	Ave	1.473	1.403		9.53	10.0	-4.7	30.0
1,3-Dichlorobenzene	Ave	0.8105	0.7111		8.77	10.0	-12.3	30.0
1,4-Dichlorobenzene	Ave	0.8216	0.7165		8.72	10.0	-12.8	30.0
Benzyl chloride	Ave	1.196	0.9541		7.97	10.0	-20.3	30.0
n-Undecane	Ave	0.7534	0.8079		10.7	10.0	7.2	30.0
n-Butylbenzene	Ave	1.432	1.337		9.34	10.0	-6.6	30.0
1,2-Dichlorobenzene	Ave	0.7725	0.6637		8.59	10.0	-14.1	30.0
n-Dodecane	Ave	0.7077	0.7640		10.8	10.0	7.9	30.0
1,2,4-Trichlorobenzene	Ave	0.5925	0.5414		9.14	10.0	-8.6	30.0
Hexachlorobutadiene	Ave	0.4514	0.3958		8.77	10.0	-12.3	30.0
Naphthalene	Ave	1.439	1.386		9.63	10.0	-3.7	30.0
1,2,3-Trichlorobenzene	Ave	0.5577	0.5306		9.51	10.0	-4.9	30.0

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxto15.b/bjx014.d
Lab Smp Id: icv 97891 Client Smp ID: icv 97891
Inj Date : 09-FEB-2011 22:56
Operator : pad Inst ID: B.i
Smp Info : icv 97891
Misc Info : 200,1, icv
Comment :
Method : /chem/B.i/Bsvr.p/bjxto15.b/to15v5.m
Meth Date : 11-Feb-2011 00:13 sv Quant Type: ISTD
Cal Date : 09-FEB-2011 20:19 Cal File: bjx011.d
Als bottle: 4 QC Sample: ICV
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	CONCENTRATIONS FINAL (ppb v/v)
1 Propene	41	2.992	2.992	(0.325)	203597	8.44323	8.4
2 Dichlorodifluoromethane	85	3.045	3.045	(0.330)	1088741	8.65597	8.7
3 Chlorodifluoromethane	51	3.077	3.077	(0.334)	526051	8.87782	8.9
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.232	3.232	(0.351)	1121509	8.62043	8.6
5 Chloromethane	50	3.344	3.344	(0.363)	274857	9.04738	9.0
6 Butane	43	3.488	3.488	(0.379)	460411	8.84738	8.8
7 Vinyl chloride	62	3.520	3.526	(0.382)	371617	8.71788	8.7
8 1,3-Butadiene	54	3.573	3.579	(0.388)	270655	9.01334	9.0
9 Bromomethane	94	4.134	4.134	(0.449)	561309	8.43201	8.4
10 Chloroethane	64	4.337	4.337	(0.471)	330477	9.01552	9.0
11 2-Methylbutane	43	4.406	4.406	(0.478)	667429	8.71617	8.7
12 Vinyl bromide	106	4.716	4.716	(0.512)	725382	9.24471	9.2
13 Trichlorofluoromethane	101	4.806	4.806	(0.522)	1777145	8.54712	8.5
14 Pentane	43	4.934	4.940	(0.535)	1151696	8.98890	9.0

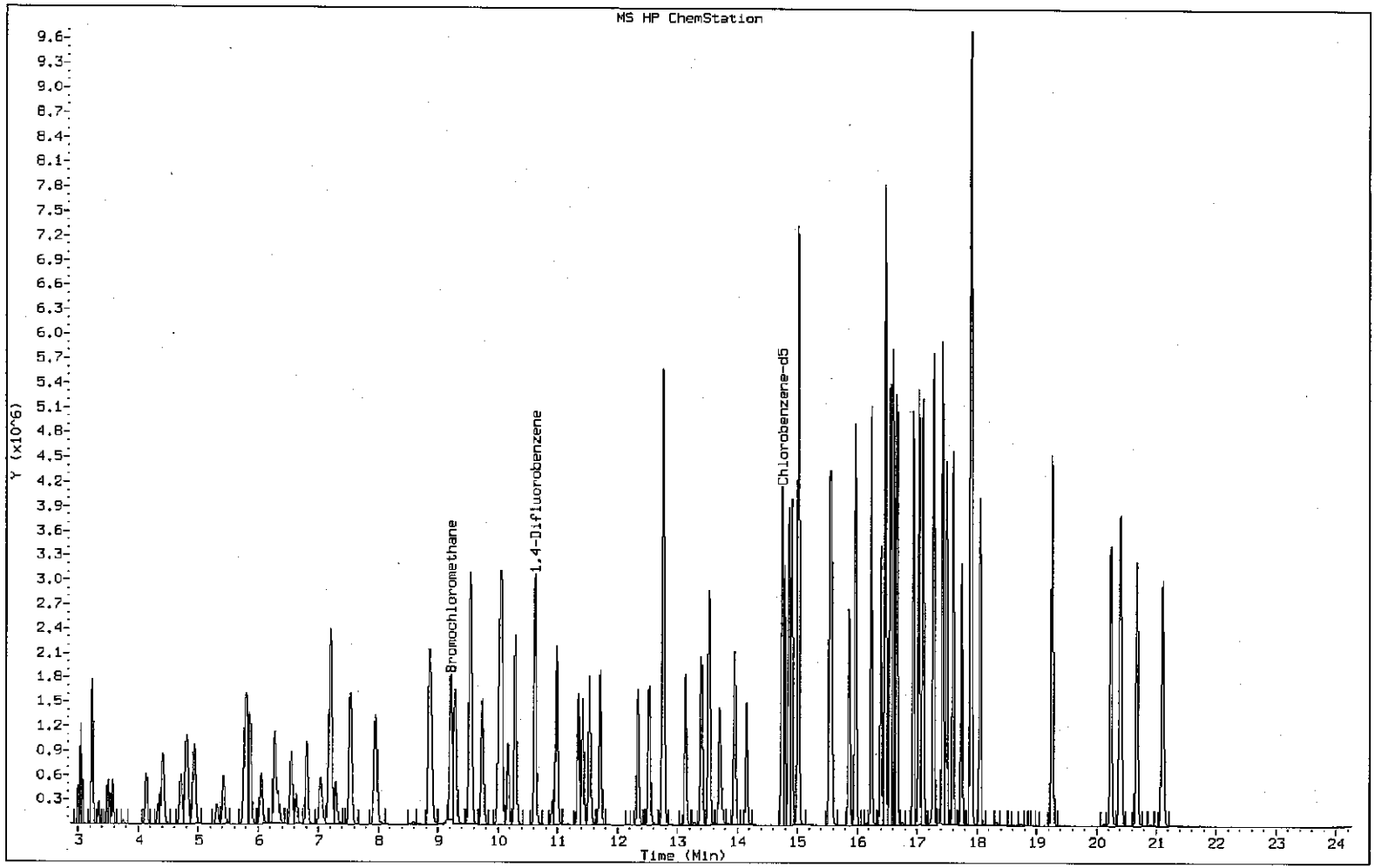
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	5.313	5.319	(0.577)	454829	14.2548	14
	16 Ethyl ether	59	5.425	5.425	(0.589)	599563	9.34424	9.3
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.804	5.804	(0.630)	1507161	10.2740	10
	18 Acrolein	56	5.767	5.767	(0.626)	254385	7.83211	7.8
	19 1,1-Dichloroethene	96	5.863	5.868	(0.636)	769964	10.8599	11
	20 Acetone	43	6.055	6.055	(0.657)	1254990	10.8995	11
	21 Carbon disulfide	76	6.279	6.279	(0.681)	2377106	10.0593	10
	22 Isopropanol	45	6.327	6.327	(0.687)	847027	9.21668	9.2
	23 Allyl chloride	41	6.557	6.552	(0.712)	967319	9.80979	9.8
	24 Acetonitrile	41	6.632	6.632	(0.720)	591954	10.2648	10
	25 Methylene chloride	49	6.813	6.813	(0.739)	895476	10.3581	10
	26 Tert-butyl alcohol	59	7.042	7.043	(0.764)	1338326	9.48171	9.5
	27 Methyl tert-butyl ether	73	7.197	7.197	(0.781)	2362156	9.77788	9.8
	28 1,2-Dichloroethene (trans)	61	7.213	7.219	(0.783)	1201394	9.62388	9.6
	29 Acrylonitrile	53	7.299	7.299	(0.792)	584653	10.0347	10
	30 n-Hexane	57	7.544	7.544	(0.819)	1345479	9.90442	9.9
	31 1,1-Dichloroethane	63	7.944	7.950	(0.862)	1489786	9.66828	9.7
	32 Vinyl acetate	43	7.976	7.976	(0.866)	1916430	10.0354	10
M	33 1,2-Dichloroethene,Total	61				2019555	19.5749	20
	34 1,2-Dichloroethene (cis)	96	8.852	8.852	(0.961)	818161	9.95104	10
	35 Ethyl acetate	88	8.884	8.889	(0.964)	73042	10.0023	10
	36 Methyl Ethyl Ketone	72	8.862	8.868	(0.962)	415104	10.2617	10(Q)
*	37 Bromochloromethane	128	9.215	9.215	(1.000)	661835	10.0000	
	38 Tetrahydrofuran	42	9.257	9.257	(0.871)	839538	9.76042	9.8
	39 Chloroform	83	9.295	9.295	(1.009)	1578403	9.23266	9.2
	40 Cyclohexane	84	9.545	9.551	(0.899)	1163210	9.61159	9.6
	41 1,1,1-Trichloroethane	97	9.535	9.540	(0.898)	1561024	8.96836	9.0
	42 Carbon tetrachloride	117	9.743	9.743	(0.917)	1490108	8.76820	8.8
	43 2,2,4-Trimethylpentane	57	10.031	10.037	(0.944)	4058285	9.76951	9.8
	44 Benzene	78	10.063	10.069	(0.947)	2505843	9.50182	9.5
	45 1,2-Dichloroethane	62	10.170	10.175	(0.957)	1080751	8.94451	8.9
	46 n-Heptane	43	10.293	10.293	(0.969)	1426997	9.52217	9.5
*	47 1,4-Difluorobenzene	114	10.624	10.624	(1.000)	3384787	10.0000	
	48 n-Butanol	56	10.917	10.917	(1.028)	351513	7.76158	7.8
	49 Trichloroethene	95	10.981	10.986	(1.034)	1025325	9.17618	9.2
	50 1,2-Dichloropropane	63	11.349	11.344	(1.068)	903398	9.27902	9.3
	51 Methyl methacrylate	69	11.419	11.419	(1.075)	882118	9.75981	9.8
	52 Dibromomethane	174	11.531	11.536	(1.085)	766894	9.37586	9.4
	53 1,4-Dioxane	88	11.531	11.531	(1.085)	301454	8.23274	8.2
	54 Bromodichloromethane	83	11.712	11.712	(1.102)	1743775	9.46977	9.5
	55 1,3-Dichloropropene (cis)	75	12.342	12.342	(1.162)	1377822	9.34980	9.3
	56 Methyl isobutyl ketone	43	12.529	12.529	(1.179)	1710055	9.88978	9.9
	57 n-Octane	43	12.769	12.769	(1.202)	1821311	9.36182	9.4
	58 Toluene	92	12.764	12.764	(0.865)	1759853	9.39576	9.4
	59 1,3-Dichloropropene (trans)	75	13.137	13.137	(1.237)	1425510	9.15005	9.2
	60 1,1,2-Trichloroethane	83	13.404	13.404	(0.909)	817874	8.99822	9.0
	61 Tetrachloroethene	166	13.532	13.532	(0.917)	1195830	9.08925	9.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	62 2-Hexanone	43	13.708	13.708	(0.929)	1628897	9.91001	9.9
	63 Dibromochloromethane	129	13.959	13.959	(0.946)	1563268	9.83782	9.8
	64 1,2-Dibromoethane	107	14.157	14.162	(0.960)	1433739	9.21311	9.2
*	65 Chlorobenzene-d5	117	14.749	14.754	(1.000)	3025735	10.0000	
	66 Chlorobenzene	112	14.792	14.792	(1.003)	2223775	8.91256	8.9
	67 n-Nonane	57	14.914	14.914	(1.011)	1827391	9.44038	9.4
	68 Ethylbenzene	91	14.866	14.872	(1.008)	3801502	9.25935	9.3
	69 Xylene (m,p)	106	15.021	15.027	(1.018)	2914850	18.4203	18
M	70 Xylenes, Total	106				4323967	27.6926	28
	71 Xylene (o)	106	15.550	15.550	(1.054)	1409117	9.27230	9.3
	72 Styrene	104	15.576	15.582	(1.056)	2202989	9.70943	9.7
	73 Bromoform	173	15.870	15.870	(1.076)	1432980	10.0628	10
	74 Isopropylbenzene	105	15.976	15.982	(1.083)	4205306	9.51621	9.5
	75 1,1,2,2-Tetrachloroethane	83	16.403	16.403	(1.112)	2150149	9.15314	9.2
	76 n-Propylbenzene	91	16.473	16.473	(1.117)	5219621	9.49774	9.5
	77 1,2,3-Trichloropropane	75	16.483	16.484	(1.118)	1748440	9.59451	9.6
	78 n-Decane	57	16.564	16.564	(1.123)	2342231	9.85073	9.9
	79 4-Ethyltoluene	105	16.601	16.601	(1.126)	4453716	9.56342	9.6
	80 2-Chlorotoluene	91	16.633	16.633	(1.128)	3997349	9.32502	9.3
	81 1,3,5-Trimethylbenzene	105	16.670	16.676	(1.130)	3481761	9.12163	9.1
	82 Alpha Methyl Styrene	118	16.942	16.942	(1.149)	1759706	10.0118	10
	83 tert-butylbenzene	119	17.039	17.039	(1.155)	3276949	9.32646	9.3
	84 1,2,4-Trimethylbenzene	105	17.108	17.108	(1.160)	3395693	8.97135	9.0
	85 sec-Butylbenzene	105	17.284	17.284	(1.172)	5097470	9.39556	9.4
	86 4-Isopropyltoluene	119	17.433	17.439	(1.182)	4245710	9.52613	9.5
	87 1,3-Dichlorobenzene	146	17.497	17.498	(1.186)	2151179	8.77158	8.8
	88 1,4-Dichlorobenzene	146	17.604	17.610	(1.194)	2167462	8.71918	8.7
	89 Benzyl chloride	91	17.748	17.754	(1.203)	2886228	7.97277	8.0
	90 Undecane	57	17.903	17.903	(1.214)	2444009	10.7212	11
	91 n-Butylbenzene	91	17.914	17.919	(1.215)	4044927	9.33513	9.3
	92 1,2-Dichlorobenzene	146	18.058	18.058	(1.224)	2007854	8.59024	8.6
	93 Dodecane	57	19.259	19.259	(1.306)	2311173	10.7928	11
	94 1,2,4-Trichlorobenzene	180	20.241	20.246	(1.372)	1637808	9.13589	9.1
	95 1,3-Hexachlorobutadiene	225	20.401	20.401	(1.383)	1197192	8.76584	8.8
	96 Naphthalene	128	20.673	20.673	(1.402)	4192506	9.63212	9.6
	97 1,2,3-Trichlorobenzene	180	21.105	21.111	(1.431)	1605238	9.51226	9.5

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File:	bjx014.d	Date:	09-FEB-2011 22:56
Client ID:	icv 97891	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	icv 97891		
Lab Sample ID:	icv 97891		



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Lab Sample ID: CCVIS 200-14275/2 Calibration Date: 02/25/2011 10:10

Instrument ID: B.i Calib Start Date: 02/09/2011 15:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 02/09/2011 20:19

Lab File ID: bjxi002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 109439

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.3643	0.3952		10.8	10.0	8.5	30.0
Dichlorodifluoromethane	Ave	1.900	2.014		10.6	10.0	6.0	30.0
Freon 22	Ave	0.8953	0.9672		10.8	10.0	8.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.966	1.984		10.1	10.0	0.9	30.0
Chloromethane	Ave	0.4590	0.4975		10.8	10.0	8.4	30.0
n-Butane	Ave	0.7863	0.8667		11.0	10.0	10.2	30.0
Vinyl chloride	Ave	0.6441	0.6698		10.4	10.0	4.0	30.0
1,3-Butadiene	Ave	0.4537	0.4799		10.6	10.0	5.8	30.0
Bromomethane	Ave	1.006	1.021		10.2	10.0	1.5	30.0
Chloroethane	Ave	0.5539	0.6067		11.0	10.0	9.5	30.0
Isopentane	Ave	1.157	1.224		10.6	10.0	5.8	30.0
Bromoethene(Vinyl Bromide)	Ave	1.186	1.221		10.3	10.0	3.0	30.0
Trichlorofluoromethane	Ave	3.142	3.182		10.1	10.0	1.3	30.0
n-Pentane	Ave	1.936	2.128		11.0	10.0	9.9	30.0
Ethanol	Ave	0.4821	0.5292		16.5	15.0	9.8	30.0
Ethyl ether	Ave	0.9695	1.018		10.5	10.0	5.0	30.0
Acrolein	Ave	0.4908	0.5374		10.9	10.0	9.5	30.0
Freon TF	Ave	2.217	2.196		9.90	10.0	-0.9	30.0
1,1-Dichloroethene	Ave	1.071	1.077		10.1	10.0	0.5	30.0
Acetone	Ave	1.740	1.960		11.3	10.0	12.7	30.0
Carbon disulfide	Ave	3.570	3.728		10.4	10.0	4.4	30.0
Isopropyl alcohol	Ave	1.389	1.516		10.9	10.0	9.2	30.0
3-Chloropropene	Ave	1.490	1.594		10.7	10.0	7.0	30.0
Acetonitrile	Ave	0.8713	0.9742		11.2	10.0	11.8	30.0
Methylene Chloride	Ave	1.306	1.382		10.6	10.0	5.8	30.0
tert-Butyl alcohol	Ave	2.133	2.271		10.6	10.0	6.5	30.0
Methyl tert-butyl ether	Ave	3.650	3.814		10.4	10.0	4.5	30.0
trans-1,2-Dichloroethene	Ave	1.886	1.965		10.4	10.0	4.2	30.0
Acrylonitrile	Ave	0.7546	0.9546		10.8	10.0	26.5	30.0
n-Hexane	Ave	2.053	2.144		10.4	10.0	4.4	30.0
1,1-Dichloroethane	Ave	2.328	2.407		10.3	10.0	3.4	30.0
Vinyl acetate	Ave	2.885	3.230		11.2	10.0	11.9	30.0
cis-1,2-Dichloroethene	Ave	1.242	1.269		10.2	10.0	2.1	30.0
Methyl Ethyl Ketone	Ave	0.6112	0.6555		10.7	10.0	7.2	30.0
Ethyl acetate	Ave	0.1103	0.1137		10.3	10.0	3.1	30.0
Tetrahydrofuran	Ave	0.2541	0.2822		11.1	10.0	11.1	30.0
Chloroform	Ave	2.583	2.587		10.0	10.0	0.2	30.0
1,1,1-Trichloroethane	Ave	0.5142	0.5150		10.0	10.0	0.2	30.0
Cyclohexane	Ave	0.3575	0.3605		10.1	10.0	0.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Lab Sample ID: CCVIS 200-14275/2 Calibration Date: 02/25/2011 10:10

Instrument ID: B.i Calib Start Date: 02/09/2011 15:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 02/09/2011 20:19

Lab File ID: bjxi002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 109439

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.5021	0.5023		10.0	10.0	0.0	30.0
2,2,4-Trimethylpentane	Ave	1.227	1.280		10.4	10.0	4.3	30.0
Benzene	Ave	0.7791	0.7805		10.0	10.0	0.2	30.0
1,2-Dichloroethane	Ave	0.3570	0.3582		10.0	10.0	0.3	30.0
n-Heptane	Ave	0.4427	0.4650		10.5	10.0	5.0	30.0
n-Butanol	Ave	0.1338	0.1388		10.4	10.0	3.7	30.0
Trichloroethene	Ave	0.3301	0.3278		9.93	10.0	-0.7	30.0
1,2-Dichloropropane	Ave	0.2876	0.2941		10.2	10.0	2.2	30.0
Methyl methacrylate	Ave	0.2670	0.2868		10.7	10.0	7.4	30.0
1,4-Dioxane	Ave	0.1082	0.1136		10.5	10.0	5.0	30.0
Dibromomethane	Ave	0.2417	0.2372		9.81	10.0	-1.9	30.0
Bromodichloromethane	Ave	0.5440	0.5568		10.2	10.0	2.3	30.0
cis-1,3-Dichloropropene	Ave	0.4354	0.4540		10.4	10.0	4.3	30.0
methyl isobutyl ketone	Ave	0.5108	0.5641		11.0	10.0	10.4	30.0
Toluene	Ave	0.6190	0.6231		10.1	10.0	0.7	30.0
n-Octane	Ave	0.5748	0.6014		10.5	10.0	4.6	30.0
trans-1,3-Dichloropropene	Ave	0.4603	0.4793		10.4	10.0	4.1	30.0
1,1,2-Trichloroethane	Ave	0.3004	0.3023		10.1	10.0	0.6	30.0
Tetrachloroethene	Ave	0.4348	0.4232		9.73	10.0	-2.7	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.5432	0.6091		11.2	10.0	12.1	30.0
Dibromochloromethane	Ave	0.5252	0.5499		10.5	10.0	4.7	30.0
1,2-Dibromoethane	Ave	0.5143	0.5186		10.1	10.0	0.8	30.0
Chlorobenzene	Ave	0.8246	0.7989		9.69	10.0	-3.1	30.0
Ethylbenzene	Ave	1.357	1.355		9.98	10.0	-0.2	30.0
n-Nonane	Ave	0.6398	0.6564		10.3	10.0	2.6	30.0
m,p-Xylene	Ave	0.5230	0.5258		20.1	20.0	0.5	30.0
Xylene, o-	Ave	0.5023	0.5123		10.2	10.0	2.0	30.0
Styrene	Ave	0.7499	0.7928		10.6	10.0	5.7	30.0
Bromoform	Ave	0.4706	0.5001		10.6	10.0	6.3	30.0
Cumene	Ave	1.461	1.484		10.2	10.0	1.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7764	0.7922		10.2	10.0	2.0	30.0
n-Propylbenzene	Ave	1.816	1.872		10.3	10.0	3.0	30.0
1,2,3-Trichloropropane	Ave	0.6023	0.6338		10.5	10.0	5.2	30.0
n-Decane	Ave	0.7858	0.8380		10.7	10.0	6.6	30.0
4-Ethyltoluene	Ave	1.539	1.542		10.0	10.0	0.2	30.0
2-Chlorotoluene	Ave	1.417	1.412		9.97	10.0	-0.3	30.0
1,3,5-Trimethylbenzene	Ave	1.262	1.258		9.97	10.0	-0.3	30.0
Alpha Methyl Styrene	Ave	0.5809	0.6237		10.7	10.0	7.4	30.0
tert-Butylbenzene	Ave	1.161	1.151		9.91	10.0	-0.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Lab Sample ID: CCVIS 200-14275/2 Calibration Date: 02/25/2011 10:10

Instrument ID: B.i Calib Start Date: 02/09/2011 15:04

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 02/09/2011 20:19

Lab File ID: bjxi002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 109439

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trimethylbenzene	Ave	1.251	1.245		9.95	10.0	-0.5	30.0
sec-Butylbenzene	Ave	1.793	1.796		10.0	10.0	0.1	30.0
4-Isopropyltoluene	Ave	1.473	1.482		10.1	10.0	0.6	30.0
1,3-Dichlorobenzene	Ave	0.8105	0.7756		9.57	10.0	-4.3	30.0
1,4-Dichlorobenzene	Ave	0.8216	0.7727		9.40	10.0	-5.9	30.0
Benzyl chloride	Ave	1.196	1.207		10.1	10.0	0.9	30.0
n-Undecane	Ave	0.7534	0.8244		10.9	10.0	9.4	30.0
n-Butylbenzene	Ave	1.432	1.437		10.0	10.0	0.3	30.0
1,2-Dichlorobenzene	Ave	0.7725	0.7305		9.45	10.0	-5.4	30.0
n-Dodecane	Ave	0.7077	0.6676		9.43	10.0	-5.7	30.0
1,2,4-Trichlorobenzene	Ave	0.5925	0.5273		8.90	10.0	-11.0	30.0
Hexachlorobutadiene	Ave	0.4514	0.4146		9.18	10.0	-8.1	30.0
Naphthalene	Ave	1.439	1.124		7.81	10.0	-21.9	30.0
1,2,3-Trichlorobenzene	Ave	0.5577	0.4662		8.36	10.0	-16.4	30.0

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxito15.b/bjxi002.d
Lab Smp Id: ccvis 109439 Client Smp ID: ccvis 109439
Inj Date : 25-FEB-2011 10:10
Operator : pad Inst ID: B.i
Smp Info : ccvis 109439
Misc Info : 200,1, ccvis
Comment :
Method : /chem/B.i/Bsvr.p/bjxito15.b/to15v5.m
Meth Date : 27-Feb-2011 09:51 klp Quant Type: ISTD
Cal Date : 09-FEB-2011 20:19 Cal File: bjx011.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

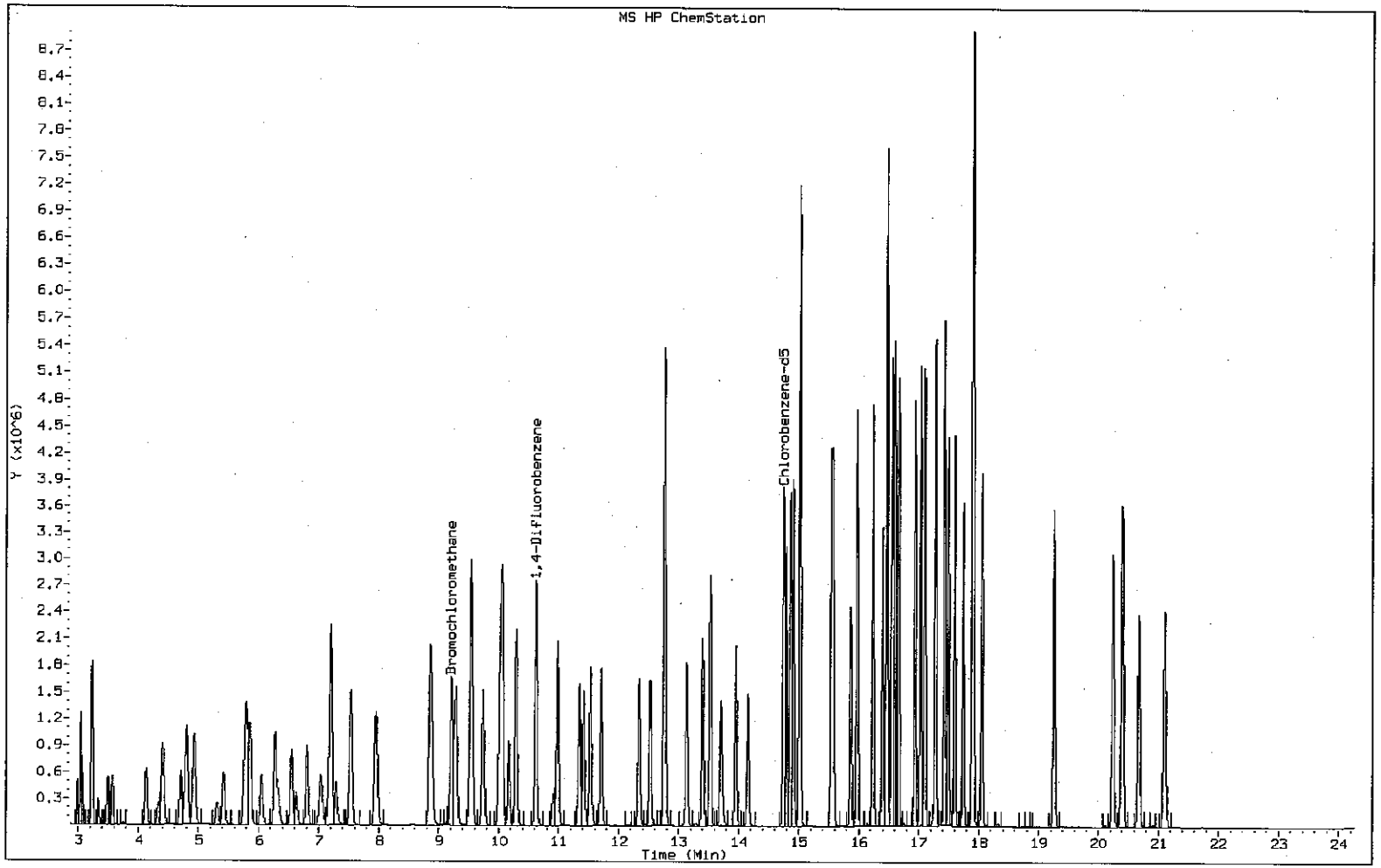
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
1 Propene	41	2.992	2.992	(0.325)	228763	10.0000	11
2 Dichlorodifluoromethane	85	3.040	3.045	(0.330)	1165755	10.0000	11
3 Chlorodifluoromethane	51	3.072	3.077	(0.334)	559872	10.0000	11
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.232	3.232	(0.351)	1148241	10.0000	10
5 Chloromethane	50	3.339	3.344	(0.363)	288020	10.0000	11
6 Butane	43	3.488	3.488	(0.379)	501729	10.0000	11
7 Vinyl chloride	62	3.520	3.526	(0.382)	387731	10.0000	10
8 1,3-Butadiene	54	3.574	3.579	(0.388)	277792	10.0000	11
9 Bromomethane	94	4.134	4.134	(0.449)	591255	10.0000	10
10 Chloroethane	64	4.331	4.337	(0.470)	351193	10.0000	11
11 2-Methylbutane	43	4.406	4.406	(0.478)	708537	10.0000	11
12 Vinyl bromide	106	4.710	4.716	(0.511)	706556	10.0000	10
13 Trichlorofluoromethane	101	4.801	4.806	(0.521)	1841958	10.0000	10
14 Pentane	43	4.934	4.940	(0.536)	1231917	10.0000	11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	AMOUNTS ON-COL (ppb v/v)
	15 Ethanol	45	5.313	5.319	(0.577)	459694	15.0000	16
	16 Ethyl ether	59	5.420	5.425	(0.589)	589200	10.0000	10
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.799	5.804	(0.630)	1270984	10.0000	9.9
	18 Acrolein	56	5.762	5.767	(0.626)	311070	10.0000	11
	19 1,1-Dichloroethene	96	5.863	5.868	(0.637)	623400	10.0000	10
	20 Acetone	43	6.050	6.055	(0.657)	1134783	10.0000	11
	21 Carbon disulfide	76	6.274	6.279	(0.681)	2158137	10.0000	10
	22 Isopropanol	45	6.322	6.327	(0.686)	877623	10.0000	11
	23 Allyl chloride	41	6.552	6.552	(0.711)	922730	10.0000	11
	24 Acetonitrile	41	6.632	6.632	(0.720)	563918	10.0000	11
	25 Methylene chloride	49	6.808	6.813	(0.739)	800041	10.0000	11
	26 Tert-butyl alcohol	59	7.037	7.043	(0.764)	1314464	10.0000	11
	27 Methyl tert-butyl ether	73	7.192	7.197	(0.781)	2207784	10.0000	10
	28 1,2-Dichloroethene (trans)	61	7.213	7.219	(0.783)	1137445	10.0000	10
	29 Acrylonitrile	53	7.293	7.299	(0.792)	552629	10.0000	11
	30 n-Hexane	57	7.539	7.544	(0.819)	1240991	10.0000	10
	31 1,1-Dichloroethane	63	7.944	7.950	(0.863)	1393228	10.0000	10
	32 Vinyl acetate	43	7.971	7.976	(0.866)	1869759	10.0000	11
M	33 1,2-Dichloroethene,Total	61				1872035	20.0000	21
	34 1,2-Dichloroethene (cis)	96	8.846	8.852	(0.961)	734590	10.0000	10
	35 Ethyl acetate	88	8.884	8.889	(0.965)	65822	10.0000	10
	36 Methyl Ethyl Ketone	72	8.862	8.868	(0.962)	379439	10.0000	11
*	37 Bromochloromethane	128	9.209	9.215	(1.000)	578997	10.0000	
	38 Tetrahydrofuran	42	9.257	9.257	(0.872)	829808	10.0000	11
	39 Chloroform	83	9.295	9.295	(1.009)	1497669	10.0000	10
	40 Cyclohexane	84	9.540	9.551	(0.898)	1059811	10.0000	10
	41 1,1,1-Trichloroethane	97	9.535	9.540	(0.898)	1514231	10.0000	10
	42 Carbon tetrachloride	117	9.738	9.743	(0.917)	1476772	10.0000	10
	43 2,2,4-Trimethylpentane	57	10.031	10.037	(0.945)	3761881	10.0000	10
	44 Benzene	78	10.063	10.069	(0.948)	2294718	10.0000	10
	45 1,2-Dichloroethane	62	10.170	10.175	(0.958)	1053083	10.0000	10
	46 n-Heptane	43	10.293	10.293	(0.969)	1367256	10.0000	11
*	47 1,4-Difluorobenzene	114	10.618	10.624	(1.000)	2940631	10.0000	
	48 n-Butanol	56	10.912	10.917	(1.028)	407932	10.0000	10
	49 Trichloroethene	95	10.981	10.986	(1.034)	963866	10.0000	9.9
	50 1,2-Dichloropropane	63	11.344	11.344	(1.068)	864601	10.0000	10
	51 Methyl methacrylate	69	11.419	11.419	(1.075)	843223	10.0000	11
	52 Dibromomethane	174	11.531	11.536	(1.086)	697253	10.0000	9.8
	53 1,4-Dioxane	88	11.531	11.531	(1.086)	334073	10.0000	11
	54 Bromodichloromethane	83	11.712	11.712	(1.103)	1636970	10.0000	10
	55 1,3-Dichloropropene (cis)	75	12.337	12.342	(1.162)	1334734	10.0000	10
	56 Methyl isobutyl ketone	43	12.524	12.529	(1.179)	1658541	10.0000	11
	57 n-Octane	43	12.764	12.769	(1.202)	1768074	10.0000	10
	58 Toluene	92	12.758	12.764	(0.865)	1651879	10.0000	10
	59 1,3-Dichloropropene (trans)	75	13.132	13.137	(1.237)	1409254	10.0000	10
	60 1,1,2-Trichloroethane	83	13.399	13.404	(0.908)	801261	10.0000	10
	61 Tetrachloroethene	166	13.532	13.532	(0.917)	1121796	10.0000	9.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb v/v)	ON-COL (ppb v/v)
	62 2-Hexanone	43	13.703	13.708	(0.929)	1614693	10.0000	11
	63 Dibromochloromethane	129	13.954	13.959	(0.946)	1457789	10.0000	10
	64 1,2-Dibromoethane	107	14.157	14.162	(0.960)	1374902	10.0000	10
*	65 Chlorobenzene-d5	117	14.749	14.754	(1.000)	2651545	10.0000	
	66 Chlorobenzene	112	14.792	14.792	(1.003)	2117789	10.0000	9.7
	67 n-Nonane	57	14.909	14.914	(1.011)	1740182	10.0000	10
	68 Ethylbenzene	91	14.866	14.872	(1.008)	3590851	10.0000	10
	69 Xylene (m,p)	106	15.021	15.027	(1.018)	2787647	20.0000	20
M	70 Xylenes, Total	106				4145839	10.0000	30
	71 Xylene (o)	106	15.550	15.550	(1.054)	1358192	10.0000	10
	72 Styrene	104	15.576	15.582	(1.056)	2101766	10.0000	11
	73 Bromoform	173	15.870	15.870	(1.076)	1325720	10.0000	11
	74 Isopropylbenzene	105	15.977	15.982	(1.083)	3933171	10.0000	10
	75 1,1,2,2-Tetrachloroethane	83	16.404	16.403	(1.112)	2100179	10.0000	10
	76 n-Propylbenzene	91	16.468	16.473	(1.117)	4961719	10.0000	10
	77 1,2,3-Trichloropropane	75	16.478	16.484	(1.117)	1680128	10.0000	11
	78 n-Decane	57	16.558	16.564	(1.123)	2221485	10.0000	11
	79 4-Ethyltoluene	105	16.596	16.601	(1.125)	4088546	10.0000	10
	80 2-Chlorotoluene	91	16.633	16.633	(1.128)	3743694	10.0000	10
	81 1,3,5-Trimethylbenzene	105	16.670	16.676	(1.130)	3334575	10.0000	10
	82 Alpha Methyl Styrene	118	16.943	16.942	(1.149)	1653378	10.0000	11
	83 tert-butylbenzene	119	17.033	17.039	(1.155)	3050641	10.0000	9.9
	84 1,2,4-Trimethylbenzene	105	17.103	17.108	(1.160)	3300809	10.0000	10
	85 sec-Butylbenzene	105	17.284	17.284	(1.172)	4760563	10.0000	10
	86 4-Isopropyltoluene	119	17.434	17.439	(1.182)	3929820	10.0000	10
	87 1,3-Dichlorobenzene	146	17.492	17.498	(1.186)	2056132	10.0000	9.6
	88 1,4-Dichlorobenzene	146	17.604	17.610	(1.194)	2048566	10.0000	9.4
	89 Benzyl chloride	91	17.748	17.754	(1.203)	3200353	10.0000	10
	90 Undecane	57	17.898	17.903	(1.213)	2185412	10.0000	11
	91 n-Butylbenzene	91	17.914	17.919	(1.215)	3808770	10.0000	10
	92 1,2-Dichlorobenzene	146	18.058	18.058	(1.224)	1936668	10.0000	9.5
	93 Dodecane	57	19.253	19.259	(1.305)	1769927	10.0000	9.4
	94 1,2,4-Trichlorobenzene	180	20.235	20.246	(1.372)	1397980	10.0000	8.9
	95 1,3-Hexachlorobutadiene	225	20.396	20.401	(1.383)	1099095	10.0000	9.2
	96 Naphthalene	128	20.668	20.673	(1.401)	2979068	10.0000	7.8
	97 1,2,3-Trichlorobenzene	180	21.105	21.111	(1.431)	1235957	10.0000	8.4

Data File:	bjxi002.d	Date:	25-FEB-2011 10:10
Client ID:	ccvis 109439	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	ccvis 109439		
Lab Sample ID:	ccvis 109439		



TestAmerica Burlington

Data file : /var/chem/B.i/Bsvr.p/bjxto15.b/bjx001.d
Lab Smp Id: VBFB Client Smp ID: VBFB
Inj Date : 09-FEB-2011 11:23
Operator : pad Inst ID: B.i
Smp Info : VBFB
Misc Info : bfb
Comment :
Method : /var/chem/B.i/Bsvr.p/bjxto15.b/bfbto15.m
Meth Date : 24-Nov-2009 10:29 njr Quant Type: ESTD
Cal Date : 23-JUL-2003 17:23 Cal File: ai0005i4.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

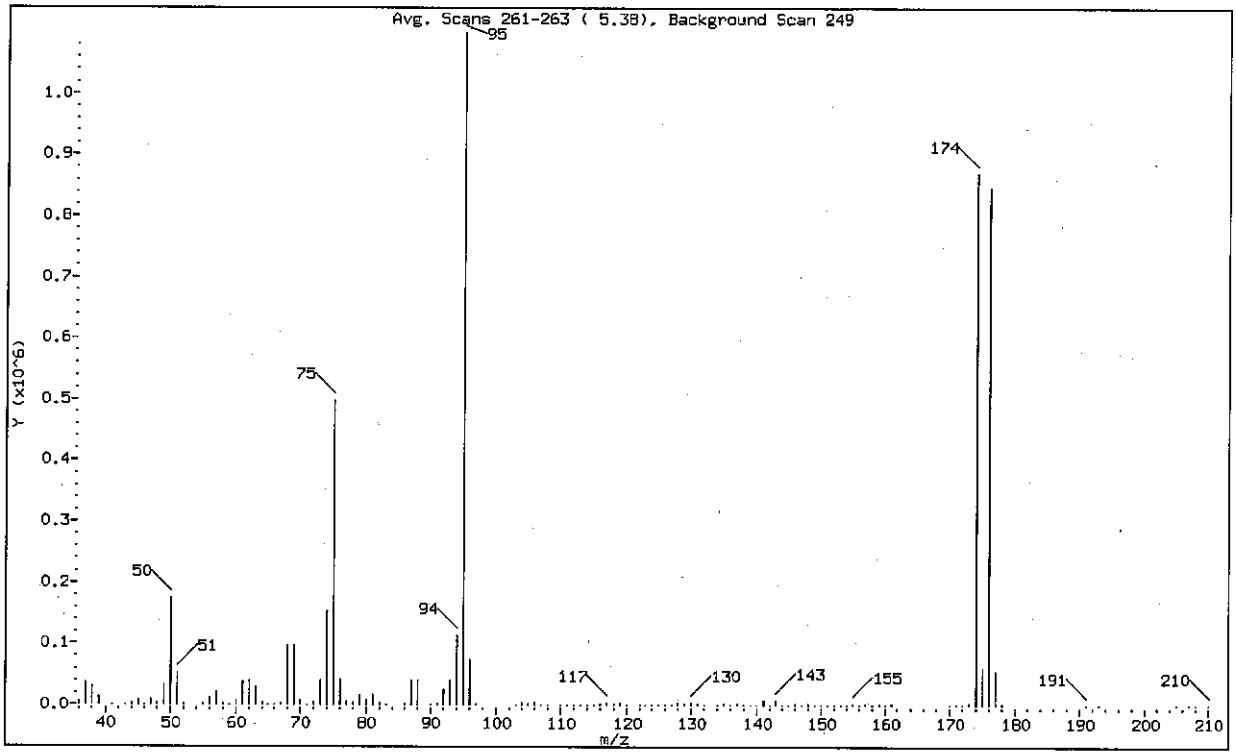
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 bfb						CAS #: 460-00-4		
5.378	5.670	-0.292	95	1098410			100.00- 100.00	100.00
5.378	5.670	-0.292	50	173521			8.00- 40.00	15.80
5.378	5.670	-0.292	75	498164			30.00- 66.00	45.35
5.378	5.670	-0.292	96	74180			5.00- 9.00	6.75
5.378	5.670	-0.292	173	3198			0.00- 2.00	0.37
5.378	5.670	-0.292	174	870250			50.00- 120.00	79.23
5.378	5.670	-0.292	175	61880			4.00- 9.00	7.11
5.378	5.670	-0.292	176	845994			93.00- 101.00	97.21
5.378	5.670	-0.292	177	55226			5.00- 9.00	6.53

Data File: bjx001.d
Client ID: VBFB
Operator: pad
Column Type:
Stationary Phase: RTX-624
Sample Info: VBFB
Lab Sample ID: VBFB
1 bfb

Date: 09-FEB-2011 11:23
Instrument: B.i
Inj Vol: 0.0 (ul)
Diameter: 0.32 (mm)



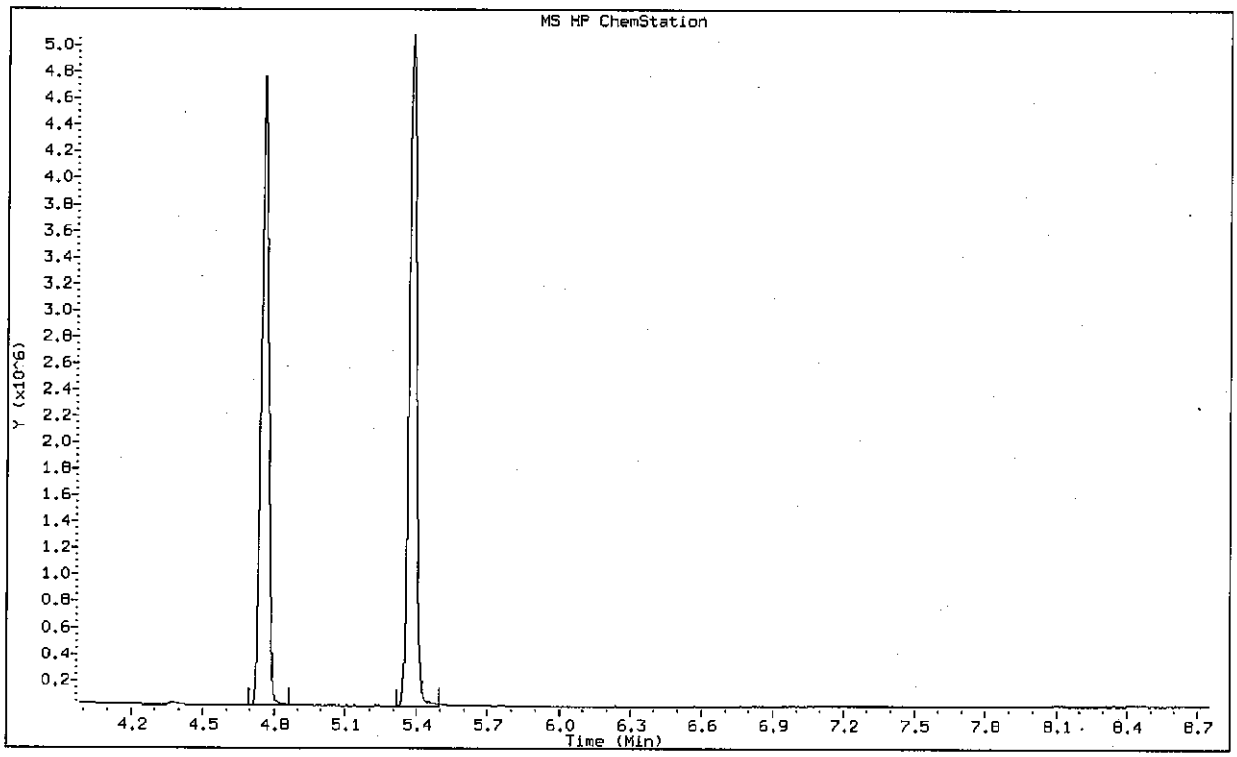
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	15.80
75	30.00 - 66.00% of mass 95	45.35
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.29 (0.37)
174	50.00 - 120.00% of mass 95	79.23
175	4.00 - 9.00% of mass 174	5.63 (7.11)
176	93.00 - 101.00% of mass 174	77.02 (97.21)
177	5.00 - 9.00% of mass 176	5.03 (6.53)

Data File:	bjx001.d	Date:	09-FEB-2011 11:23
Client ID:	VBFB	Instrument:	B.i
Operator:	pad	Inj Vol:	0.0 (ul)
Column Type:		Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	VBFB		
Lab Sample ID:	VBFB		

Data File: /chem/B.i/Bsvr.p/bjxto15.b/bjx001.d
Spectrum: Avg. Scans 261-263 (5.38), Background Scan 249
Location of Maximum: 95.00
Number of points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5644	72.00	4359	113.00	444	147.00	591
37.00	35208	73.00	38744	114.00	41	148.00	2031
38.00	30928	74.00	152512	115.00	692	149.00	680
39.00	12524	75.00	498112	116.00	2459	150.00	896
41.00	23	76.00	41528	117.00	4451	151.00	115
43.00	173	77.00	5151	118.00	2438	152.00	422
44.00	2974	78.00	3339	119.00	3985	153.00	707
45.00	7227	79.00	15440	120.00	134	154.00	572
46.00	253	80.00	6324	122.00	251	155.00	2410
47.00	9063	81.00	15822	123.00	265	156.00	390
48.00	4318	82.00	4195	124.00	544	157.00	1613
49.00	32600	83.00	208	125.00	221	158.00	204
50.00	173504	86.00	911	126.00	332	159.00	992
51.00	52920	87.00	39832	127.00	261	160.00	101
52.00	2202	88.00	39856	128.00	2832	161.00	928
55.00	1822	90.00	41	129.00	1240	170.00	59
56.00	10809	91.00	2168	130.00	3097	171.00	158
57.00	22448	92.00	25264	131.00	1363	172.00	508
58.00	906	93.00	40248	132.00	148	173.00	3198
59.00	39	94.00	112568	134.00	180	174.00	870208
60.00	7485	95.00	1098240	135.00	1237	175.00	61880
61.00	37928	96.00	74176	136.00	197	176.00	845952
62.00	38704	97.00	2182	137.00	998	177.00	55224
63.00	29152	103.00	401	138.00	35	178.00	1756
64.00	2814	104.00	3004	139.00	280	191.00	41
65.00	309	105.00	1125	140.00	499	193.00	40
66.00	149	106.00	2866	141.00	6365	205.00	34
67.00	2303	107.00	835	142.00	870	207.00	33
68.00	97760	108.00	48	143.00	6476	208.00	19
69.00	96440	110.00	237	144.00	353	210.00	36
70.00	7429	111.00	396	145.00	574		
71.00	226	112.00	277	146.00	1286		

Data File:	bjx001.d	Date:	09-FEB-2011 11:23
Client ID:	VBFB	Instrument:	B.i
Operator:	pad	Inj Vol:	0.0 (ul)
Column Type:		Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	VBFB		
Lab Sample ID:	VBFB		



TestAmerica Burlington

Data file : /chem/B.i/Bsvr.p/bjxito15.b/bjxi001.d
Lab Smp Id: VBFB Client Smp ID: VBFB
Inj Date : 25-FEB-2011 09:21
Operator : pad Inst ID: B.i
Smp Info : VBFB
Misc Info : bfb
Comment :
Method : /chem/B.i/Bsvr.p/bjxito15.b/bfbto15.m
Meth Date : 24-Nov-2009 10:29 njr Quant Type: ESTD
Cal Date : 23-JUL-2003 17:23 Cal File: ai0005i4.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf * Vf * CpndVariable

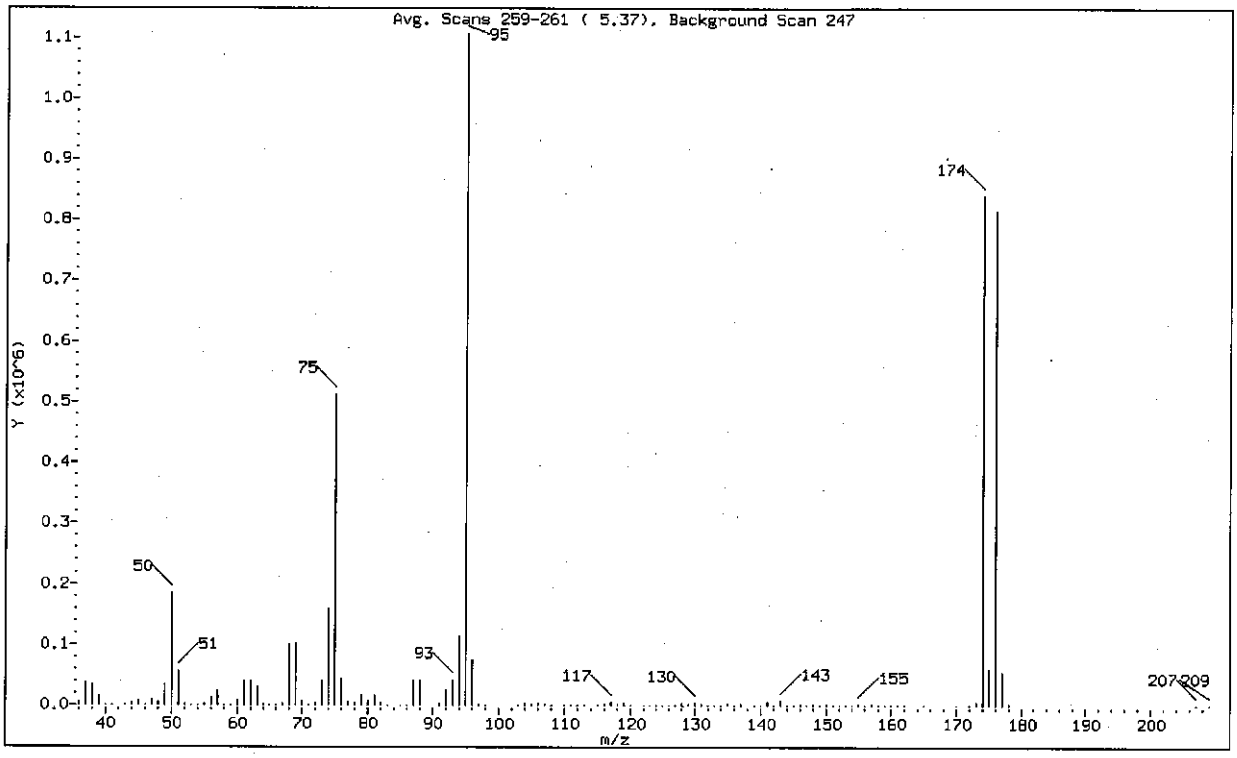
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
$ 1 bfb						CAS #: 460-00-4		
5.367	5.670	-0.303	95	1106602			100.00- 100.00	100.00
5.367	5.670	-0.303	50	184217			8.00- 40.00	16.65
5.367	5.670	-0.303	75	511786			30.00- 66.00	46.25
5.367	5.670	-0.303	96	74794			5.00- 9.00	6.76
5.367	5.670	-0.303	173	4826			0.00- 2.00	0.57
5.367	5.670	-0.303	174	839530			50.00- 120.00	75.87
5.367	5.670	-0.303	175	60381			4.00- 9.00	7.19
5.367	5.670	-0.303	176	814485			93.00- 101.00	97.02
5.367	5.670	-0.303	177	53618			5.00- 9.00	6.58

Data File: bjxi001.d
Client ID: VBFB
Operator: pad
Column Type:
Stationary Phase: RTX-624
Sample Info: VBFB
Lab Sample ID: VBFB
1 bfb

Date: 25-FEB-2011 09:21
Instrument: B.i
Inj Vol: 0.0 (ul)
Diameter: 0.32 (mm)



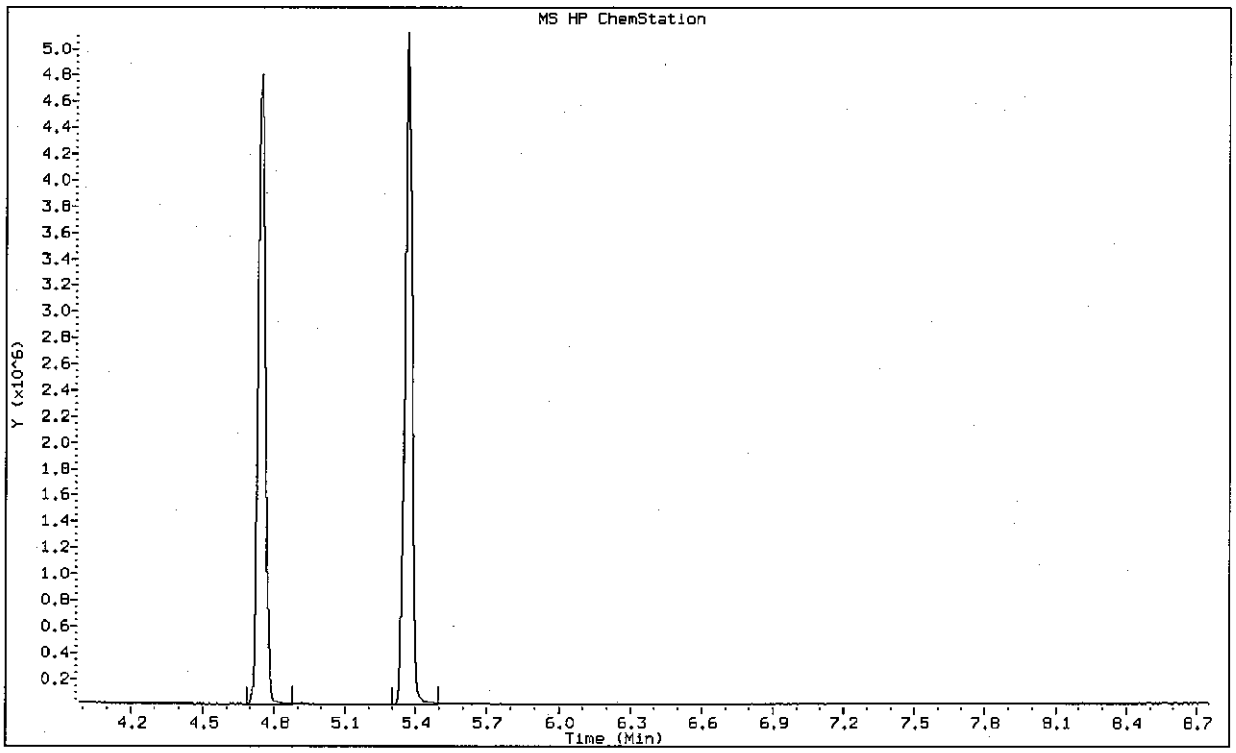
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	16.65
75	30.00 - 66.00% of mass 95	46.25
96	5.00 - 9.00% of mass 95	6.76
173	Less than 2.00% of mass 174	0.44 (0.57)
174	50.00 - 120.00% of mass 95	75.87
175	4.00 - 9.00% of mass 174	5.46 (7.19)
176	93.00 - 101.00% of mass 174	73.60 (97.02)
177	5.00 - 9.00% of mass 176	4.85 (6.58)

Data File:	bjxi001.d	Date:	25-FEB-2011 09:21
Client ID:	VBFB	Instrument:	B.i
Operator:	pad	Inj Vol:	0.0 (ul)
Column Type:		Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	VBFB		
Lab Sample ID:	VBFB		

Data File: /chem/B.i/Bsvr.p/bjxito15.b/bjxi001.d
Spectrum: Avg. Scans 259-261 (5.37), Background Scan 247
Location of Maximum: 95.00
Number of points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5894	69.00	100512	108.00	57	144.00	361
37.00	37080	70.00	7607	110.00	256	145.00	531
38.00	33576	71.00	303	111.00	404	146.00	1049
39.00	13674	72.00	4437	112.00	304	147.00	637
40.00	243	73.00	39584	113.00	422	148.00	2132
41.00	83	74.00	159360	115.00	762	149.00	560
43.00	298	75.00	511744	116.00	2452	150.00	909
44.00	3222	76.00	44336	117.00	4576	151.00	44
45.00	7184	77.00	5747	118.00	2564	152.00	330
46.00	505	78.00	3303	119.00	3780	153.00	788
47.00	9241	79.00	16054	120.00	48	154.00	595
48.00	4655	80.00	6550	122.00	215	155.00	2209
49.00	34856	81.00	16800	123.00	240	156.00	432
50.00	184192	82.00	4311	124.00	560	157.00	1569
51.00	55760	83.00	307	125.00	219	158.00	205
52.00	2195	85.00	77	126.00	359	159.00	816
53.00	132	86.00	819	127.00	254	160.00	34
54.00	79	87.00	39392	128.00	3133	161.00	877
55.00	1822	88.00	39160	129.00	1508	162.00	37
56.00	11814	91.00	2316	130.00	3331	165.00	33
57.00	23952	92.00	26056	131.00	1166	170.00	48
58.00	896	93.00	41440	132.00	173	172.00	437
59.00	58	94.00	114760	133.00	73	173.00	4826
60.00	7186	95.00	1106432	134.00	216	174.00	839488
61.00	39792	96.00	74792	135.00	1260	175.00	60376
62.00	40720	97.00	2155	136.00	182	176.00	814464
63.00	31360	98.00	70	137.00	1335	177.00	53616
64.00	2630	103.00	301	139.00	243	178.00	1505
65.00	269	104.00	3087	140.00	499	207.00	52
66.00	97	105.00	1122	141.00	6241	209.00	36
67.00	2201	106.00	2938	142.00	758		
68.00	100400	107.00	964	143.00	6661		

Data File:	bjxi001.d	Date:	25-FEB-2011 09:21
Client ID:	VBFB	Instrument:	B.i
Operator:	pad	Inj Vol:	0.0 (ul)
Column Type:		Diameter:	0.32 (mm)
Stationary Phase:	RTX-624		
Sample Info:	VBFB		
Lab Sample ID:	VBFB		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: | Lab Sample ID: MB 200-14275/4

Matrix: Air | Lab File ID: bjxi004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 02/25/2011 11:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 14275 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	0.50	U	0.50	0.012
75-45-6	Freon 22	86.47	0.50	U	0.50	0.034
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	0.20	U	0.20	0.012
74-87-3	Chloromethane	50.49	0.50	U	0.50	0.021
106-97-8	n-Butane	58.12	0.50	U	0.50	0.085
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.025
106-99-0	1,3-Butadiene	54.09	0.20	U	0.20	0.027
74-83-9	Bromomethane	94.94	0.20	U	0.20	0.014
75-00-3	Chloroethane	64.52	0.50	U	0.50	0.10
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.20	U	0.20	0.050
75-69-4	Trichlorofluoromethane	137.37	0.20	U	0.20	0.050
76-13-1	Freon TF	187.38	0.20	U	0.20	0.050
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.015
67-64-1	Acetone	58.08	5.0	U	5.0	0.99
67-63-0	Isopropyl alcohol	60.10	5.0	U	5.0	0.043
75-15-0	Carbon disulfide	76.14	0.50	U	0.50	0.050
107-05-1	3-Chloropropene	76.53	0.50	U	0.50	0.029
75-09-2	Methylene Chloride	84.93	0.50	U	0.50	0.030
75-65-0	tert-Butyl alcohol	74.12	5.0	U	5.0	0.10
1634-04-4	Methyl tert-butyl ether	88.15	0.20	U	0.20	0.013
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.050
110-54-3	n-Hexane	86.17	0.20	U	0.20	0.023
75-34-3	1,1-Dichloroethane	98.96	0.20	U	0.20	0.013
78-93-3	Methyl Ethyl Ketone	72.11	0.50	U	0.50	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.050
540-59-0	1,2-Dichloroethene, Total	96.94	0.20	U	0.20	0.10
67-66-3	Chloroform	119.38	0.20	U	0.20	0.050
109-99-9	Tetrahydrofuran	72.11	5.0	U	5.0	0.10
71-55-6	1,1,1-Trichloroethane	133.41	0.20	U	0.20	0.050
110-82-7	Cyclohexane	84.16	0.20	U	0.20	0.012
56-23-5	Carbon tetrachloride	153.81	0.20	U	0.20	0.050
540-84-1	2,2,4-Trimethylpentane	114.23	0.20	U	0.20	0.013
71-43-2	Benzene	78.11	0.20	U	0.20	0.050
107-06-2	1,2-Dichloroethane	98.96	0.20	U	0.20	0.015
142-82-5	n-Heptane	100.21	0.20	U	0.20	0.027

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: | Lab Sample ID: MB 200-14275/4

Matrix: Air | Lab File ID: bjxi004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 02/25/2011 11:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 14275 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.014
80-62-6	Methyl methacrylate	100.12	0.50	U	0.50	0.10
78-87-5	1,2-Dichloropropane	112.99	0.20	U	0.20	0.016
123-91-1	1,4-Dioxane	88.11	5.0	U	5.0	0.035
75-27-4	Bromodichloromethane	163.83	0.20	U	0.20	0.050
10061-01-5	cis-1,3-Dichloropropene	110.97	0.20	U	0.20	0.050
108-10-1	methyl isobutyl ketone	100.16	0.50	U	0.50	0.064
108-88-3	Toluene	92.14	0.20	U	0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	0.20	U	0.20	0.064
79-00-5	1,1,2-Trichloroethane	133.41	0.20	U	0.20	0.050
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.017
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	0.50	U	0.50	0.028
124-48-1	Dibromochloromethane	208.29	0.20	U	0.20	0.050
106-93-4	1,2-Dibromoethane	187.87	0.20	U	0.20	0.012
108-90-7	Chlorobenzene	112.30	0.20	U	0.20	0.050
100-41-4	Ethylbenzene	106.17	0.20	U	0.20	0.014
179601-23-1	m,p-Xylene	106.17	0.50	U	0.50	0.023
95-47-6	Xylene, o-	106.17	0.20	U	0.20	0.050
1330-20-7	Xylene (total)	106.17	0.20	U	0.20	0.15
100-42-5	Styrene	104.15	0.20	U	0.20	0.050
75-25-2	Bromoform	252.75	0.20	U	0.20	0.050
98-82-8	Cumene	120.19	0.20	U	0.20	0.050
79-34-5	1,1,2,2-Tetrachloroethane	167.85	0.20	U	0.20	0.050
103-65-1	n-Propylbenzene	120.19	0.20	U	0.20	0.064
622-96-8	4-Ethyltoluene	120.20	0.20	U	0.20	0.064
108-67-8	1,3,5-Trimethylbenzene	120.20	0.20	U	0.20	0.064
95-49-8	2-Chlorotoluene	126.59	0.20	U	0.20	0.064
98-06-6	tert-Butylbenzene	134.22	0.20	U	0.20	0.050
95-63-6	1,2,4-Trimethylbenzene	120.20	0.20	U	0.20	0.064
135-98-8	sec-Butylbenzene	134.22	0.20	U	0.20	0.022
99-87-6	4-Isopropyltoluene	134.22	0.20	U	0.20	0.013
541-73-1	1,3-Dichlorobenzene	147.00	0.20	U	0.20	0.018
106-46-7	1,4-Dichlorobenzene	147.00	0.20	U	0.20	0.021
100-44-7	Benzyl chloride	126.58	0.20	U	0.20	0.022
104-51-8	n-Butylbenzene	134.22	0.20	U	0.20	0.064

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: Lab Sample ID: MB 200-14275/4

Matrix: Air Lab File ID: bjxi004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 02/25/2011 11:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	0.20	U	0.20	0.017
120-82-1	1,2,4-Trichlorobenzene	181.45	0.50	U	0.50	0.032
87-68-3	Hexachlorobutadiene	260.76	0.20	U	0.20	0.022
91-20-3	Naphthalene	128.17	0.50	U	0.50	0.041

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: Lab Sample ID: MB 200-14275/4

Matrix: Air Lab File ID: bjxi004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 02/25/2011 11:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	2.5	U	2.5	0.059
75-45-6	Freon 22	86.47	1.8	U	1.8	0.12
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	1.4	U	1.4	0.084
74-87-3	Chloromethane	50.49	1.0	U	1.0	0.043
106-97-8	n-Butane	58.12	1.2	U	1.2	0.20
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.064
106-99-0	1,3-Butadiene	54.09	0.44	U	0.44	0.060
74-83-9	Bromomethane	94.94	0.78	U	0.78	0.054
75-00-3	Chloroethane	64.52	1.3	U	1.3	0.26
593-60-2	Bromoethene(Vinyl Bromide)	106.96	0.87	U	0.87	0.22
75-69-4	Trichlorofluoromethane	137.37	1.1	U	1.1	0.28
76-13-1	Freon TF	187.38	1.5	U	1.5	0.38
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.059
67-64-1	Acetone	58.08	12	U	12	2.4
67-63-0	Isopropyl alcohol	60.10	12	U	12	0.11
75-15-0	Carbon disulfide	76.14	1.6	U	1.6	0.16
107-05-1	3-Chloropropene	76.53	1.6	U	1.6	0.091
75-09-2	Methylene Chloride	84.93	1.7	U	1.7	0.10
75-65-0	tert-Butyl alcohol	74.12	15	U	15	0.30
1634-04-4	Methyl tert-butyl ether	88.15	0.72	U	0.72	0.047
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.20
110-54-3	n-Hexane	86.17	0.70	U	0.70	0.081
75-34-3	1,1-Dichloroethane	98.96	0.81	U	0.81	0.053
78-93-3	Methyl Ethyl Ketone	72.11	1.5	U	1.5	0.19
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.79	U	0.79	0.40
67-66-3	Chloroform	119.38	0.98	U	0.98	0.24
109-99-9	Tetrahydrofuran	72.11	15	U	15	0.29
71-55-6	1,1,1-Trichloroethane	133.41	1.1	U	1.1	0.27
110-82-7	Cyclohexane	84.16	0.69	U	0.69	0.041
56-23-5	Carbon tetrachloride	153.81	1.3	U	1.3	0.31
540-84-1	2,2,4-Trimethylpentane	114.23	0.93	U	0.93	0.061
71-43-2	Benzene	78.11	0.64	U	0.64	0.16
107-06-2	1,2-Dichloroethane	98.96	0.81	U	0.81	0.061
142-82-5	n-Heptane	100.21	0.82	U	0.82	0.11

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: | Lab Sample ID: MB 200-14275/4

Matrix: Air | Lab File ID: bjxi004.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 02/25/2011 11:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 14275 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	1.1	U	1.1	0.075
80-62-6	Methyl methacrylate	100.12	2.0	U	2.0	0.41
78-87-5	1,2-Dichloropropane	112.99	0.92	U	0.92	0.074
123-91-1	1,4-Dioxane	88.11	18	U	18	0.13
75-27-4	Bromodichloromethane	163.83	1.3	U	1.3	0.34
10061-01-5	cis-1,3-Dichloropropene	110.97	0.91	U	0.91	0.23
108-10-1	methyl isobutyl ketone	100.16	2.0	U	2.0	0.26
108-88-3	Toluene	92.14	0.75	U	0.75	0.19
10061-02-6	trans-1,3-Dichloropropene	110.97	0.91	U	0.91	0.29
79-00-5	1,1,2-Trichloroethane	133.41	1.1	U	1.1	0.27
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	0.12
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	2.0	U	2.0	0.11
124-48-1	Dibromochloromethane	208.29	1.7	U	1.7	0.43
106-93-4	1,2-Dibromoethane	187.87	1.5	U	1.5	0.092
108-90-7	Chlorobenzene	112.30	0.92	U	0.92	0.23
100-41-4	Ethylbenzene	106.17	0.87	U	0.87	0.061
179601-23-1	m,p-Xylene	106.17	2.2	U	2.2	0.10
95-47-6	Xylene, o-	106.17	0.87	U	0.87	0.22
1330-20-7	Xylene (total)	106.17	0.87	U	0.87	0.65
100-42-5	Styrene	104.15	0.85	U	0.85	0.21
75-25-2	Bromoform	252.75	2.1	U	2.1	0.52
98-82-8	Cumene	120.19	0.98	U	0.98	0.25
79-34-5	1,1,2,2-Tetrachloroethane	167.85	1.4	U	1.4	0.34
103-65-1	n-Propylbenzene	120.19	0.98	U	0.98	0.31
622-96-8	4-Ethyltoluene	120.20	0.98	U	0.98	0.31
108-67-8	1,3,5-Trimethylbenzene	120.20	0.98	U	0.98	0.31
95-49-8	2-Chlorotoluene	126.59	1.0	U	1.0	0.33
98-06-6	tert-Butylbenzene	134.22	1.1	U	1.1	0.27
95-63-6	1,2,4-Trimethylbenzene	120.20	0.98	U	0.98	0.31
135-98-8	sec-Butylbenzene	134.22	1.1	U	1.1	0.12
99-87-6	4-Isopropyltoluene	134.22	1.1	U	1.1	0.071
541-73-1	1,3-Dichlorobenzene	147.00	1.2	U	1.2	0.11
106-46-7	1,4-Dichlorobenzene	147.00	1.2	U	1.2	0.13
100-44-7	Benzyl chloride	126.58	1.0	U	1.0	0.11
104-51-8	n-Butylbenzene	134.22	1.1	U	1.1	0.35

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: Lab Sample ID: MB 200-14275/4

Matrix: Air Lab File ID: bjxi004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 02/25/2011 11:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	1.2	U	1.2	0.10
120-82-1	1,2,4-Trichlorobenzene	181.45	3.7	U	3.7	0.24
87-68-3	Hexachlorobutadiene	260.76	2.1	U	2.1	0.23
91-20-3	Naphthalene	128.17	2.6	U	2.6	0.21

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxito15.b/bjxi004.d
Lab Smp Id: mb Client Smp ID: mb
Inj Date : 25-FEB-2011 11:53
Operator : pad Inst ID: B.i
Smp Info : mb
Misc Info : 200,1, mb
Comment :
Method : /chem/B.i/Bsvr.p/bjxito15.b/to15v5.m
Meth Date : 27-Feb-2011 09:51 klp Quant Type: ISTD
Cal Date : 09-FEB-2011 20:19 Cal File: bjx011.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

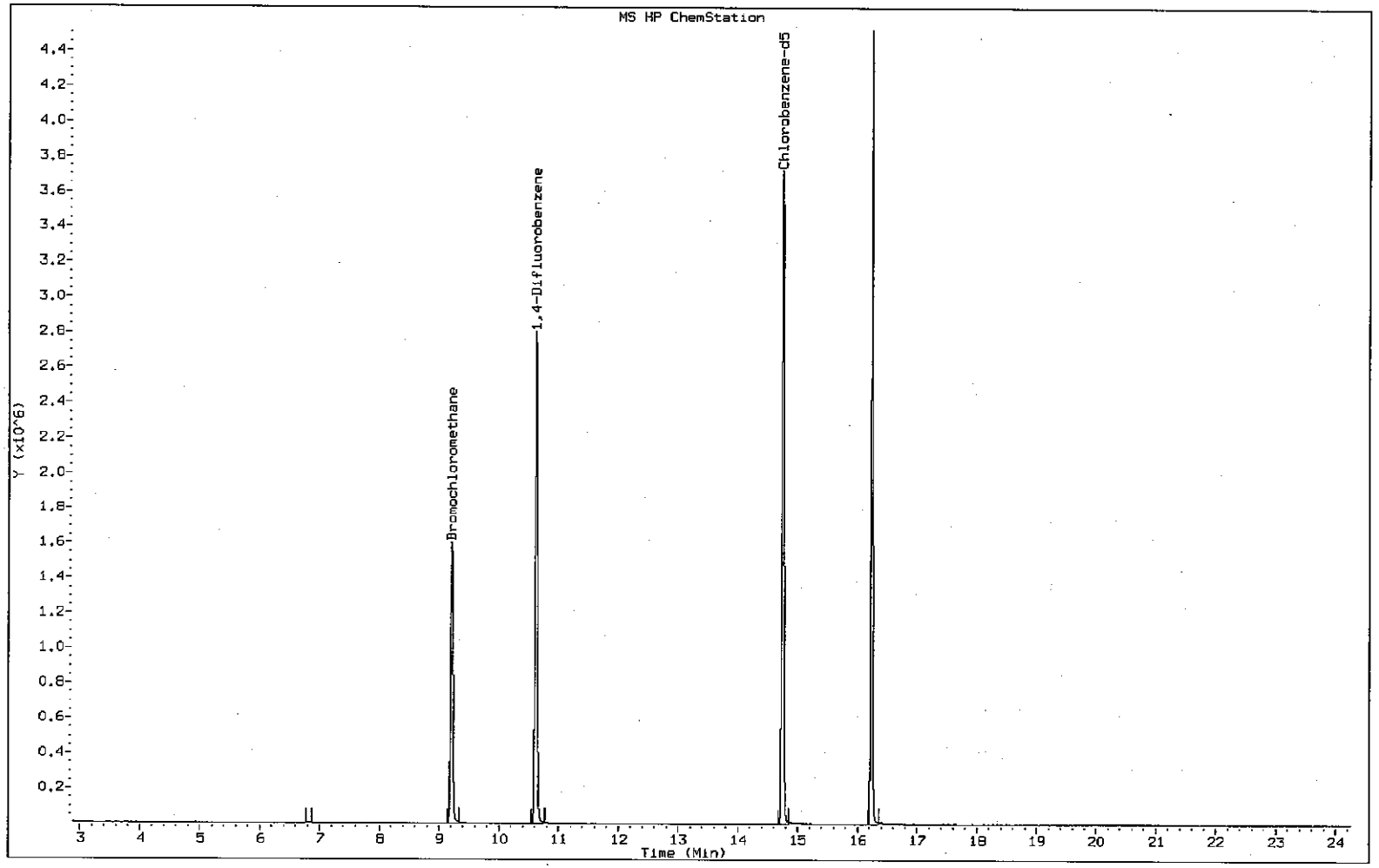
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	CONCENTRATIONS FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
11 2-Methylbutane	43	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Pentane	43	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	Compound Not Detected.					
	16 Ethyl ether	59	Compound Not Detected.					
	17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	24 Acetonitrile	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	29 Acrylonitrile	53	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	9.209	9.215	(1.000)	595614	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	10.618	10.624	(1.000)	3082335	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	52 Dibromomethane	174	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	57 n-Octane	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	CONCENTRATIONS FINAL (ppb v/v)
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	14.749	14.754	(1.000)	2719949	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	67 n-Nonane	57	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					
	72 Styrene	104	Compound Not Detected.					
	73 Bromoform	173	Compound Not Detected.					
	74 Isopropylbenzene	105	Compound Not Detected.					
	75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	76 n-Propylbenzene	91	Compound Not Detected.					
	77 1,2,3-Trichloropropane	75	Compound Not Detected.					
	78 n-Decane	57	Compound Not Detected.					
	79 4-Ethyltoluene	105	Compound Not Detected.					
	80 2-Chlorotoluene	91	Compound Not Detected.					
	81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
	82 Alpha Methyl Styrene	118	Compound Not Detected.					
	83 tert-butylbenzene	119	Compound Not Detected.					
	84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
	85 sec-Butylbenzene	105	Compound Not Detected.					
	86 4-Isopropyltoluene	119	Compound Not Detected.					
	87 1,3-Dichlorobenzene	146	Compound Not Detected.					
	88 1,4-Dichlorobenzene	146	Compound Not Detected.					
	89 Benzyl chloride	91	Compound Not Detected.					
	90 Undecane	57	Compound Not Detected.					
	91 n-Butylbenzene	91	Compound Not Detected.					
	92 1,2-Dichlorobenzene	146	Compound Not Detected.					
	93 Dodecane	57	Compound Not Detected.					
	94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
	95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
	96 Naphthalene	128	Compound Not Detected.					
	97 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File:	bjxi004.d	Date:	25-FEB-2011 11:53
Client ID:	mb	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	mb		
Lab Sample ID:	mb		



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: Lab Sample ID: LCS 200-14275/3

Matrix: Air Lab File ID: bjxi003.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 02/25/2011 11:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	120.91	9.33		0.50	0.012
75-45-6	Freon 22	86.47	9.35		0.50	0.034
76-14-2	1,2-Dichlorotetrafluoroethane	170.92	9.03		0.20	0.012
74-87-3	Chloromethane	50.49	9.30		0.50	0.021
106-97-8	n-Butane	58.12	9.08		0.50	0.085
75-01-4	Vinyl chloride	62.50	8.86		0.20	0.025
106-99-0	1,3-Butadiene	54.09	9.31		0.20	0.027
74-83-9	Bromomethane	94.94	8.70		0.20	0.014
75-00-3	Chloroethane	64.52	9.37		0.50	0.10
593-60-2	Bromoethene(Vinyl Bromide)	106.96	9.43		0.20	0.050
75-69-4	Trichlorofluoromethane	137.37	9.22		0.20	0.050
76-13-1	Freon TF	187.38	9.97		0.20	0.050
75-35-4	1,1-Dichloroethene	96.94	10.4		0.20	0.015
67-64-1	Acetone	58.08	11.0		5.0	0.99
67-63-0	Isopropyl alcohol	60.10	9.33		5.0	0.043
75-15-0	Carbon disulfide	76.14	9.68		0.50	0.050
107-05-1	3-Chloropropene	76.53	9.50		0.50	0.029
75-09-2	Methylene Chloride	84.93	10.2		0.50	0.030
75-65-0	tert-Butyl alcohol	74.12	9.47		5.0	0.10
1634-04-4	Methyl tert-butyl ether	88.15	9.69		0.20	0.013
156-60-5	trans-1,2-Dichloroethene	96.94	9.47		0.20	0.050
110-54-3	n-Hexane	86.17	9.52		0.20	0.023
75-34-3	1,1-Dichloroethane	98.96	9.46		0.20	0.013
78-93-3	Methyl Ethyl Ketone	72.11	10.0		0.50	0.064
156-59-2	cis-1,2-Dichloroethene	96.94	9.70		0.20	0.050
540-59-0	1,2-Dichloroethene, Total	96.94	19.2		0.20	0.10
67-66-3	Chloroform	119.38	9.19		0.20	0.050
109-99-9	Tetrahydrofuran	72.11	9.72		5.0	0.10
71-55-6	1,1,1-Trichloroethane	133.41	9.20		0.20	0.050
110-82-7	Cyclohexane	84.16	9.32		0.20	0.012
56-23-5	Carbon tetrachloride	153.81	9.08		0.20	0.050
540-84-1	2,2,4-Trimethylpentane	114.23	9.56		0.20	0.013
71-43-2	Benzene	78.11	9.20		0.20	0.050
107-06-2	1,2-Dichloroethane	98.96	9.12		0.20	0.015
142-82-5	n-Heptane	100.21	9.42		0.20	0.027

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: | Lab Sample ID: LCS 200-14275/3

Matrix: Air | Lab File ID: bjxi003.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 200(mL) | Date Analyzed: 02/25/2011 11:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 14275 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	131.39	9.05		0.20	0.014
80-62-6	Methyl methacrylate	100.12	9.56		0.50	0.10
78-87-5	1,2-Dichloropropane	112.99	9.11		0.20	0.016
123-91-1	1,4-Dioxane	88.11	8.09		5.0	0.035
75-27-4	Bromodichloromethane	163.83	9.57		0.20	0.050
10061-01-5	cis-1,3-Dichloropropene	110.97	9.20		0.20	0.050
108-10-1	methyl isobutyl ketone	100.16	9.96		0.50	0.064
108-88-3	Toluene	92.14	9.14		0.20	0.050
10061-02-6	trans-1,3-Dichloropropene	110.97	9.13		0.20	0.064
79-00-5	1,1,2-Trichloroethane	133.41	8.74		0.20	0.050
127-18-4	Tetrachloroethene	165.83	8.77		0.20	0.017
591-78-6	Methyl Butyl Ketone (2-Hexanone)	100.20	9.76		0.50	0.028
124-48-1	Dibromochloromethane	208.29	9.82		0.20	0.050
106-93-4	1,2-Dibromoethane	187.87	8.97		0.20	0.012
108-90-7	Chlorobenzene	112.30	8.68		0.20	0.050
100-41-4	Ethylbenzene	106.17	9.06		0.20	0.014
179601-23-1	m,p-Xylene	106.17	18.2		0.50	0.023
95-47-6	Xylene, o-	106.17	9.13		0.20	0.050
1330-20-7	Xylene (total)	106.17	27.3		0.20	0.15
100-42-5	Styrene	104.15	9.51		0.20	0.050
75-25-2	Bromoform	252.75	10.0		0.20	0.050
98-82-8	Cumene	120.19	9.39		0.20	0.050
79-34-5	1,1,2,2-Tetrachloroethane	167.85	8.99		0.20	0.050
103-65-1	n-Propylbenzene	120.19	9.46		0.20	0.064
622-96-8	4-Ethyltoluene	120.20	9.42		0.20	0.064
108-67-8	1,3,5-Trimethylbenzene	120.20	9.03		0.20	0.064
95-49-8	2-Chlorotoluene	126.59	9.29		0.20	0.064
98-06-6	tert-Butylbenzene	134.22	9.24		0.20	0.050
95-63-6	1,2,4-Trimethylbenzene	120.20	8.93		0.20	0.064
135-98-8	sec-Butylbenzene	134.22	9.33		0.20	0.022
99-87-6	4-Isopropyltoluene	134.22	9.51		0.20	0.013
541-73-1	1,3-Dichlorobenzene	147.00	8.58		0.20	0.018
106-46-7	1,4-Dichlorobenzene	147.00	8.58		0.20	0.021
100-44-7	Benzyl chloride	126.58	7.94		0.20	0.022
104-51-8	n-Butylbenzene	134.22	9.40		0.20	0.064

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Client Sample ID: Lab Sample ID: LCS 200-14275/3

Matrix: Air Lab File ID: bjxi003.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 02/25/2011 11:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 14275 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	147.00	8.48		0.20	0.017
120-82-1	1,2,4-Trichlorobenzene	181.45	9.00		0.50	0.032
87-68-3	Hexachlorobutadiene	260.76	8.88		0.20	0.022
91-20-3	Naphthalene	128.17	9.40		0.50	0.041

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/B.i/Bsvr.p/bjxito15.b/bjxi003.d
Lab Smp Id: lcs 97891 Client Smp ID: lcs 97891
Inj Date : 25-FEB-2011 11:00
Operator : pad Inst ID: B.i
Smp Info : lcs 97891
Misc Info : 200,1, lcs
Comment :
Method : /chem/B.i/Bsvr.p/bjxito15.b/to15v5.m
Meth Date : 27-Feb-2011 09:51 klp Quant Type: ISTD
Cal Date : 09-FEB-2011 20:19 Cal File: bjx011.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

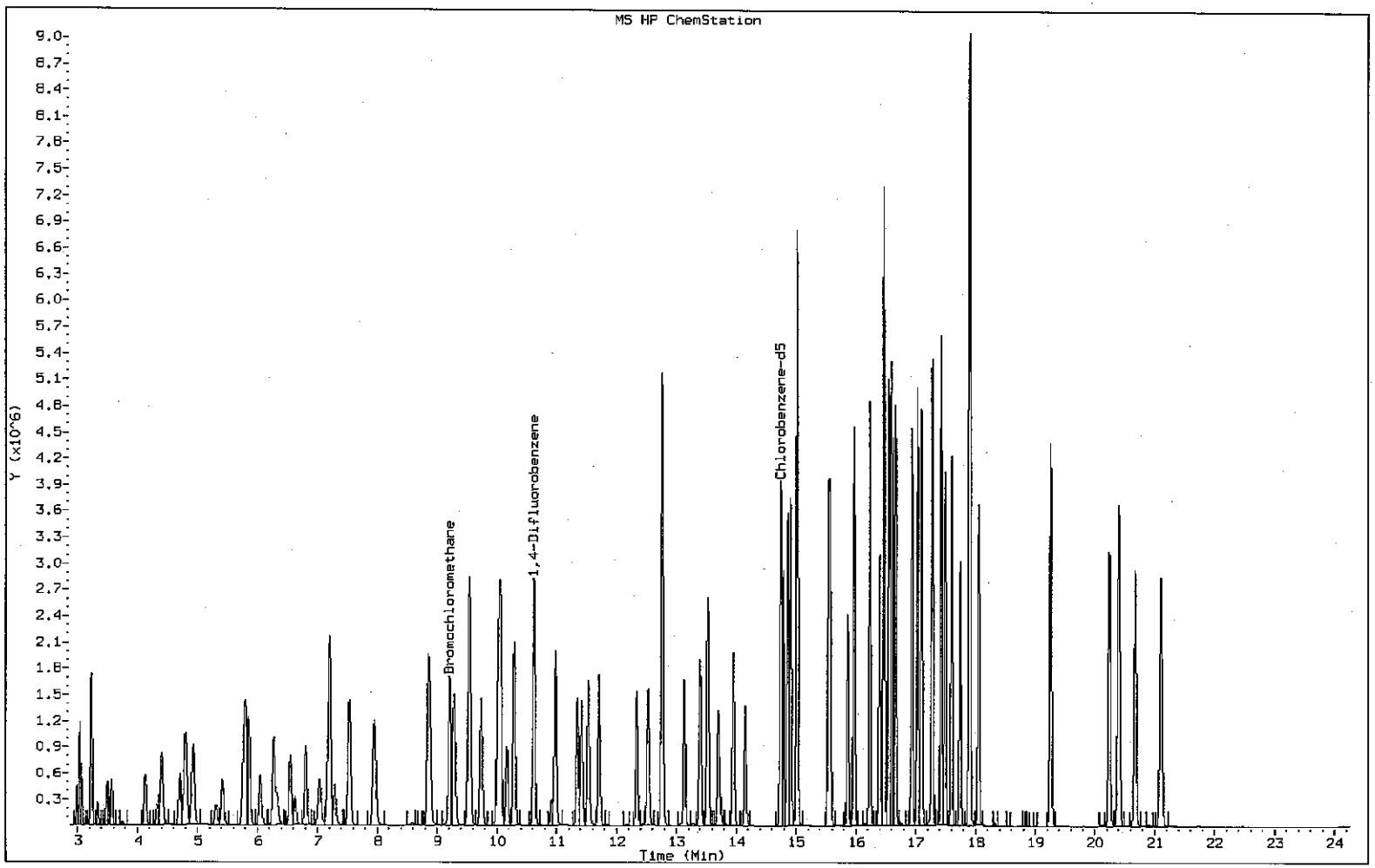
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
1 Propene	41	2.992	2.992	(0.325)	200601	9.09583	9.1
2 Dichlorodifluoromethane	85	3.040	3.045	(0.330)	1072838	9.32604	9.3
3 Chlorodifluoromethane	51	3.072	3.077	(0.334)	506736	9.35044	9.4
4 1,2-Dichloro-1,1,2,2-tetraflu	85	3.232	3.232	(0.351)	1074069	9.02672	9.0
5 Chloromethane	50	3.339	3.344	(0.363)	258409	9.30027	9.3
6 Butane	43	3.488	3.488	(0.379)	432169	9.08018	9.1
7 Vinyl chloride	62	3.520	3.526	(0.382)	345236	8.85530	8.9
8 1,3-Butadiene	54	3.574	3.579	(0.388)	255664	9.30917	9.3
9 Bromomethane	94	4.134	4.134	(0.449)	529945	8.70426	8.7
10 Chloroethane	64	4.331	4.337	(0.470)	314049	9.36739	9.4
11 2-Methylbutane	43	4.401	4.406	(0.478)	640221	9.14161	9.1
12 Vinyl bromide	106	4.710	4.716	(0.511)	676397	9.42541	9.4
13 Trichlorofluoromethane	101	4.801	4.806	(0.521)	1753242	9.21957	9.2
14 Pentane	43	4.934	4.940	(0.536)	1098597	9.37516	9.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
	15 Ethanol	45	5.308	5.319	(0.576)	422211	14.4682	14
	16 Ethyl ether	59	5.420	5.425	(0.589)	528650	9.00843	9.0
	17 1,1,2-Trichloro-1,2,2-trifluo	101	5.799	5.804	(0.630)	1337372	9.96789	10
	18 Acrolein	56	5.762	5.767	(0.626)	226939	7.63956	7.6
	19 1,1-Dichloroethene	96	5.863	5.868	(0.637)	675328	10.4146	10
	20 Acetone	43	6.050	6.055	(0.657)	1159948	11.0148	11
	21 Carbon disulfide	76	6.274	6.279	(0.681)	2092959	9.68398	9.7
	22 Isopropanol	45	6.327	6.327	(0.687)	784062	9.32824	9.3
	23 Allyl chloride	41	6.552	6.552	(0.711)	856823	9.50064	9.5
	24 Acetonitrile	41	6.632	6.632	(0.720)	511443	9.69684	9.7
	25 Methylene chloride	49	6.808	6.813	(0.739)	806864	10.2047	10
	26 Tert-butyl alcohol	59	7.043	7.043	(0.765)	1222446	9.46948	9.5
	27 Methyl tert-butyl ether	73	7.192	7.197	(0.781)	2140952	9.68980	9.7
	28 1,2-Dichloroethene (trans)	61	7.208	7.219	(0.783)	1081012	9.46820	9.5
	29 Acrylonitrile	53	7.293	7.299	(0.792)	521441	9.78550	9.8
	30 n-Hexane	57	7.539	7.544	(0.819)	1182375	9.51655	9.5
	31 1,1-Dichloroethane	63	7.944	7.950	(0.863)	1333523	9.46232	9.5
	32 Vinyl acetate	43	7.971	7.976	(0.866)	1730621	9.90863	9.9
M	33 1,2-Dichloroethene,Total	61				1810081	19.1637	19
	34 1,2-Dichloroethene (cis)	96	8.846	8.852	(0.961)	729069	9.69550	9.7
	35 Ethyl acetate	88	8.889	8.889	(0.965)	64083	9.59493	9.6
	36 Methyl Ethyl Ketone	72	8.862	8.868	(0.962)	371674	10.0461	10
*	37 Bromochloromethane	128	9.209	9.215	(1.000)	605310	10.0000	
	38 Tetrahydrofuran	42	9.257	9.257	(0.872)	763605	9.72113	9.7
	39 Chloroform	83	9.295	9.295	(1.009)	1437062	9.19086	9.2
	40 Cyclohexane	84	9.546	9.551	(0.899)	1030371	9.32289	9.3
	41 1,1,1-Trichloroethane	97	9.535	9.540	(0.898)	1462595	9.20127	9.2
	42 Carbon tetrachloride	117	9.738	9.743	(0.917)	1408718	9.07688	9.1
	43 2,2,4-Trimethylpentane	57	10.031	10.037	(0.945)	3626345	9.55915	9.6
	44 Benzene	78	10.063	10.069	(0.948)	2216622	9.20375	9.2
	45 1,2-Dichloroethane	62	10.170	10.175	(0.958)	1006788	9.12408	9.1
	46 n-Heptane	43	10.293	10.293	(0.969)	1288843	9.41744	9.4
*	47 1,4-Difluorobenzene	114	10.618	10.624	(1.000)	3091088	10.0000	
	48 n-Butanol	56	10.917	10.917	(1.028)	324867	7.85478	7.9
	49 Trichloroethene	95	10.981	10.986	(1.034)	923364	9.04885	9.0
	50 1,2-Dichloropropane	63	11.344	11.344	(1.068)	809931	9.10942	9.1
	51 Methyl methacrylate	69	11.419	11.419	(1.075)	788962	9.55852	9.6
	52 Dibromomethane	174	11.531	11.536	(1.086)	680052	9.10412	9.1
	53 1,4-Dioxane	88	11.531	11.531	(1.086)	270582	8.09174	8.1
	54 Bromodichloromethane	83	11.712	11.712	(1.103)	1608773	9.56673	9.6
	55 1,3-Dichloropropene (cis)	75	12.337	12.342	(1.162)	1238069	9.19971	9.2
	56 Methyl isobutyl ketone	43	12.529	12.529	(1.180)	1573321	9.96354	10
	57 n-Octane	43	12.769	12.769	(1.203)	1673760	9.42083	9.4
	58 Toluene	92	12.764	12.764	(0.865)	1578026	9.13924	9.1
	59 1,3-Dichloropropene (trans)	75	13.132	13.137	(1.237)	1298378	9.12587	9.1
	60 1,1,2-Trichloroethane	83	13.399	13.404	(0.908)	732566	8.74293	8.7
	61 Tetrachloroethene	166	13.527	13.532	(0.917)	1063618	8.76969	8.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	CONCENTRATIONS FINAL (ppb v/v)
	62 2-Hexanone	43	13.708	13.708	(0.929)	1478771	9.75936	9.8
	63 Dibromochloromethane	129	13.954	13.959	(0.946)	1438265	9.81848	9.8
	64 1,2-Dibromoethane	107	14.157	14.162	(0.960)	1286281	8.96628	9.0
*	65 Chlorobenzene-d5	117	14.749	14.754	(1.000)	2789272	10.0000	
	66 Chlorobenzene	112	14.792	14.792	(1.003)	1996388	8.67954	8.7
	67 n-Nonane	57	14.909	14.914	(1.011)	1669148	9.35390	9.4
	68 Ethylbenzene	91	14.866	14.872	(1.008)	3428196	9.05797	9.1
	69 Xylene (m,p)	106	15.021	15.027	(1.018)	2655504	18.2040	18
M	70 Xylenes, Total	106				3934659	27.3347	27
	71 Xylene (o)	106	15.550	15.550	(1.054)	1279155	9.13069	9.1
	72 Styrene	104	15.576	15.582	(1.056)	1988675	9.50791	9.5
	73 Bromoform	173	15.870	15.870	(1.076)	1312250	9.99623	10
	74 Isopropylbenzene	105	15.977	15.982	(1.083)	3826965	9.39422	9.4
	75 1,1,2,2-Tetrachloroethane	83	16.403	16.403	(1.112)	1946656	8.98940	9.0
	76 n-Propylbenzene	91	16.468	16.473	(1.117)	4791664	9.45818	9.5
	77 1,2,3-Trichloropropane	75	16.478	16.484	(1.117)	1612456	9.59843	9.6
	78 n-Decane	57	16.558	16.564	(1.123)	2142387	9.77410	9.8
	79 4-Ethyltoluene	105	16.596	16.601	(1.125)	4043538	9.41873	9.4
	80 2-Chlorotoluene	91	16.633	16.633	(1.128)	3672722	9.29407	9.3
	81 1,3,5-Trimethylbenzene	105	16.670	16.676	(1.130)	3177774	9.03101	9.0
	82 Alpha Methyl Styrene	118	16.942	16.942	(1.149)	1590597	9.81688	9.8
	83 tert-butylbenzene	119	17.033	17.039	(1.155)	2994394	9.24477	9.2
	84 1,2,4-Trimethylbenzene	105	17.108	17.108	(1.160)	3117444	8.93445	8.9
	85 sec-Butylbenzene	105	17.284	17.284	(1.172)	4668086	9.33355	9.3
	86 4-Isopropyltoluene	119	17.433	17.439	(1.182)	3906404	9.50788	9.5
	87 1,3-Dichlorobenzene	146	17.498	17.498	(1.186)	1940568	8.58362	8.6
	88 1,4-Dichlorobenzene	146	17.604	17.610	(1.194)	1966928	8.58327	8.6
	89 Benzyl chloride	91	17.748	17.754	(1.203)	2651258	7.94458	7.9
	90 Undecane	57	17.898	17.903	(1.213)	2239941	10.6590	11
	91 n-Butylbenzene	91	17.914	17.919	(1.215)	3752998	9.39567	9.4
	92 1,2-Dichlorobenzene	146	18.058	18.058	(1.224)	1826931	8.47882	8.5
	93 Dodecane	57	19.259	19.259	(1.306)	2209373	11.1921	11
	94 1,2,4-Trichlorobenzene	180	20.235	20.246	(1.372)	1487594	9.00145	9.0
	95 1,3-Hexachlorobutadiene	225	20.395	20.401	(1.383)	1118423	8.88333	8.9
	96 Naphthalene	128	20.668	20.673	(1.401)	3770693	9.39744	9.4
	97 1,2,3-Trichlorobenzene	180	21.105	21.111	(1.431)	1482889	9.53220	9.5

Data File:	bjxi003.d	Date:	25-FEB-2011 11:00
Client ID:	lcs 97891	Instrument:	B.i
Operator:	pad	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	lcs 97891		
Lab Sample ID:	lcs 97891		



GC/MS INSTRUMENT RUN LOG

Sequence			Standard Traceability		Instrument Information
Batch ID: BJX	Start Date: 02/09/11	Time: 1123	ISTD Lot #: 84580		Instrument ID: B
Test Method: T015	End Date: 02/10/11	Time: 1123	CAL STD Lot # See comments		Instrument: 5973
ICAL Date: 02/09/11			ICV / LCS Lot # See comments		Column Type: RTX-624

	Manager	Analyst	Analyst SV	Analyst	Analyst
Name/Initial		Paul Daigle	Sone Waljeme		
Signature		Paul D. PAD	[signature]		

Sequence Information								Individual Sample Review			
Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
1123	BJX 001	4634	BFB	NA	1	—	PAD	N/A	✓	PAD	
1223	002	4634	VIBLR		1	200			✓	SV	
1315	003	4634	VIBLR		1				✓		
1405	004	4634	VIBLR		1				✓		
1504	005	5069	IC-1		2				✓	SV	#109459
1556	006	2705	IC-2		3				✓		#109450
1649	007	3640	IC-3		4				✓		#109440
1741	008	3152	ICIS-4		5				✓		#109439
1834	009	3631	IC-5		6				✓		#109427
1926	010	3089	IC-6		7				✓		#109426
2019	011	4943	IC-7		8				✓		#109424
2111	012	4634	VIBLR		1			NA	✓	SV	
2203	013	4634	VIBLR		1				✓		
2256	014	3308	ICV		9				✓		#97891
2348	015	4634	VIBLR		1				✓		
0041	016	3308	LCS		9		SV		✓		#97891
0133	017	4634	MB		1				✓		
0226	018	3343	3739-1	1.0	10	200		✓	✓		
0318	019	5079	3739-2		11			✓	~~A~~ ✓		~~NA~~
0411	020	4361	3739-3		12			✓	✓		
0503	021	5096	3739-4		13			✓	✓		
0556	022	2959	3739-5		14			✓	✓		
0648	023	5165	3739-6		15			✓	✓		
0741	024	4911	3739-7		16			✓	✓		
0833	025	3322	3739-8		2			✓	✓		
0925	026	2521	3739-9		3			✓	✓		
1018	027	5104	3739-10		4			✓	✓		

Legend: C=Complete ▪ R=Reanalyze ▪ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

GC/MS INSTRUMENT RUN LOG

Sequence				Standard Traceability		Instrument Information
Batch ID: BJXI	Start Date: 02/25/11	Time: 0721		ISTD Lot #: 34580		Instrument ID: B
Test Method: TO15	End Date: 02/26/11	Time: 0721		CAL STD Lot #: 109437		Instrument: 5973
ICAL Date: 02/07/11				ICV / LCS Lot #: 97891		Column Type: RTX-624

	Manager	Analyst SV	Analyst	Analyst	Analyst
Name/Initial		Sorel Voyiane			
Signature					

Sequence Information								Individual Sample Review			
Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
0921	BJXI001	N/A	BFB	N/A			PAD	N/A	✓	PAD	
1010	002	3152	CCV		1	200		✓	✓		AG
1100	003	3308	LCS		2	200		✓	✓		AG
1153	004	4634	MB		3	200		✓	✓		
1246	005	4842	3885-01	15.4	5	13		✓	✓	✓	
1338	006	4660	-02	1	6	200		✓	✓		
1432	007	4966	-03	1.25	7	160		✓	✓		
1525	008	3721	-04	4	8	50		—	—		1 flowing for R #25 R
1625	009	4332	3823-01	19.8	9	41		✓	✓		cdf 4.05
1718	010	4430	-02	75.3	10	43		✓	✓		16.20
1812	011	3272	-03	74.6	11	52		—	✓		19.39
1905	012	3706	-04	29.9	12	30		✓	✓		4.49
1959	013	3657	-05	35.3	13	30		✓	✓		5.29
2053	014	4235	3905-01	~~10~~ 9.8	14	~~30~~ 31		✓	✓		cdf 1.52 (cdf due to ↑ vac.)
2146	015	4235	-02	1480	15	26		✓	✓		cdf 192.49
2240	016		3905-02	301	~~16~~ 15	128		✓	↑✓		
2332	017	4452	3884-01	1	16	200		✓	✓	PAD	C
0024	018	4095	-02	1	~~2~~ 1	200		✓	✓		C
0117	019	3373	3882-01	10	32	20		✓	✓		C
0210	020	4790	-02	8	3	25		✓	✓		C
0302	021	2515	-03	5	4	40		✓	↑		THF 41 R 1:8
0354	022	3254	3934-01	1	5	200		✓	✓		C
0447	023	4547	3904-01	1	6	200		✓	✓		C
0539	024	2849	-02	1	7	200		✓	✓		
0632	025	3721	3885-04	4	8	50	SV	✓	✓		C
0724	026	BAG	3977-01	10	9	20	↓	✓	✓		C
					PAD	02/26/11					

Legend: C=Complete ▪ R=Reanalyze ▪ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Instrument ID: B.i Start Date: 02/09/2011 11:23

Analysis Batch Number: 13474 End Date: 02/10/2011 10:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-13474/1		02/09/2011 11:23	1	bjx001.d	RTX-624 0.32(mm)
VIBLK 200-13474/2		02/09/2011 12:23	1		RTX-624 0.32(mm)
VIBLK 200-13474/3		02/09/2011 13:15	1		RTX-624 0.32(mm)
VIBLK 200-13474/4		02/09/2011 14:05	1		RTX-624 0.32(mm)
IC 200-13474/5		02/09/2011 15:04	1	bjx005.d	RTX-624 0.32(mm)
IC 200-13474/6		02/09/2011 15:56	1	bjx006.d	RTX-624 0.32(mm)
IC 200-13474/7		02/09/2011 16:49	1	bjx007.d	RTX-624 0.32(mm)
ICIS 200-13474/8		02/09/2011 17:41	1	bjx008.d	RTX-624 0.32(mm)
IC 200-13474/9		02/09/2011 18:34	1	bjx009.d	RTX-624 0.32(mm)
IC 200-13474/10		02/09/2011 19:26	1	bjx010.d	RTX-624 0.32(mm)
IC 200-13474/11		02/09/2011 20:19	1	bjx011.d	RTX-624 0.32(mm)
VIBLK 200-13474/12		02/09/2011 21:11	1		RTX-624 0.32(mm)
VIBLK 200-13474/13		02/09/2011 22:03	1		RTX-624 0.32(mm)
ICV 200-13474/14		02/09/2011 22:56	1	bjx014.d	RTX-624 0.32(mm)
VIBLK 200-13474/15		02/09/2011 23:48	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 00:41	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 01:33	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 02:26	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 03:18	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 04:11	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 05:03	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 05:56	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 06:48	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 07:41	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 08:33	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 09:25	1		RTX-624 0.32(mm)
ZZZZZ		02/10/2011 10:18	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-3885-1

SDG No.: 200-3885

Instrument ID: B.i Start Date: 02/25/2011 09:21

Analysis Batch Number: 14275 End Date: 02/26/2011 07:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-14275/1		02/25/2011 09:21	1	bjxi001.d	RTX-624 0.32(mm)
CCVIS 200-14275/2		02/25/2011 10:10	1	bjxi002.d	RTX-624 0.32(mm)
LCS 200-14275/3		02/25/2011 11:00	1	bjxi003.d	RTX-624 0.32(mm)
MB 200-14275/4		02/25/2011 11:53	1	bjxi004.d	RTX-624 0.32(mm)
200-3885-1	SCA-021511-01	02/25/2011 12:46	15.4	bjxi005.d	RTX-624 0.32(mm)
200-3885-2	SCA-021511-02	02/25/2011 13:38	1	bjxi006.d	RTX-624 0.32(mm)
200-3885-3	SCA-021511-03	02/25/2011 14:32	1.25	bjxi007.d	RTX-624 0.32(mm)
ZZZZZ		02/25/2011 15:25	4		RTX-624 0.32(mm)
ZZZZZ		02/25/2011 16:25	19.8		RTX-624 0.32(mm)
ZZZZZ		02/25/2011 17:18	75.3		RTX-624 0.32(mm)
ZZZZZ		02/25/2011 18:12	74.6		RTX-624 0.32(mm)
ZZZZZ		02/25/2011 19:05	29.9		RTX-624 0.32(mm)
ZZZZZ		02/25/2011 19:59	35.3		RTX-624 0.32(mm)
ZZZZZ		02/25/2011 20:53	9.81		RTX-624 0.32(mm)
ZZZZZ		02/25/2011 21:46	1480		RTX-624 0.32(mm)
ZZZZZ		02/25/2011 22:40	301		RTX-624 0.32(mm)
ZZZZZ		02/25/2011 23:32	1		RTX-624 0.32(mm)
ZZZZZ		02/26/2011 00:24	1		RTX-624 0.32(mm)
ZZZZZ		02/26/2011 01:17	10		RTX-624 0.32(mm)
ZZZZZ		02/26/2011 02:10	8		RTX-624 0.32(mm)
ZZZZZ		02/26/2011 03:02	5		RTX-624 0.32(mm)
ZZZZZ		02/26/2011 03:54	1		RTX-624 0.32(mm)
ZZZZZ		02/26/2011 04:47	1		RTX-624 0.32(mm)
ZZZZZ		02/26/2011 05:39	1		RTX-624 0.32(mm)
200-3885-4	SCA-021511-04	02/26/2011 06:32	4	bjxi025.d	RTX-624 0.32(mm)
ZZZZZ		02/26/2011 07:24	10		RTX-624 0.32(mm)

Post-Sampling Air Canister Pressure Check Record

Client ID	Job	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
O'BRIEN+G	3885	2.18.11	2000	29.1	22	G5	MAP

Sampling Information and Returned Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?		✓	
(2) Is the flow controller ID used for each canister recorded?		✓	
(3) Is visible sign of damage to canister and/or flow controller (FC) present?		✓	

If damage observed, list equipment IDs and describe condition:

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Return (Y/N)	Analyst Initials	Comments
1	4842	1.0	Y	NA	N	4267 CJOC	
2	4660	0.7	Y	1	1	4267 CJOC	
3	4966	-4.7	N	1	1	4267 CJOC	
4	3721	-3.1	N	1	1	4267 CJOC	

2/18/11

MAP

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg)

[2] If return pressure is not within criteria, initiate anomaly report.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

Internal Use Only: Flow Controller Date and Page # _____

Pre-Shipment Clean Canister Certification Report

Certification Type: ☑ Batch ☐ Individual

Canister Cleaning & Pre-Shipment Leak Test												
System ID				# Cycles		Cleaning Date		Technician		Canister Size		
Oven				100		1/26/11		SML III		6L	1L	3L
		Leak Test										
Port	Can ID	Initial[1] ("Hg)	Final ("Hg)	Adjusted Initial[2] ("Hg)	Difference[3]	Initial Reading				Final Reading		
1	3726	-29.1	-29.6	-29.6	0.0	Gauge ID:	C1			Gauge ID:	C1	
2	4660					Date:	1/27/11			Date:	2/3/11	
3	4957					Time:	0930			Time:	1530	
4	3591					Tech:	VP			Tech:	SML III	
5	4850					BP:	29.3	("Hg)		BP:	29.8	("Hg)
6	4267					Temp	22	(°C)		Temp:	22	(°C)
7	3721					[3]Acceptance Criteria:						
8	4664					(1) The difference must be less than or equal to + 0.5						
9	4485					(2) Pressure readings must be at least 24 hours apart.						
10	4966					If time frame was not met, the PM must authorize shipment of canister:						
11	4645					*PM Authorization:*						
12	4842					Signature				Date		

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[2] To calculate Adjusted Initial Pressure, subtract Final BP from Initial BP and add the result (positive or negative) to the initial pressure reading.

[3] To calculate Difference, subtract the Adjusted Initial Pressure from the Final Pressure (See Acceptance Criteria)

Clean Canister Certification Analysis & Authorization of Release to Inventory											
Test Method: ☐TO15 Routine ☐ TO15 LL ☐ NJDEP-LL TO15				Inventory Level					Secondary Review		
Can ID	Date	Sequence	Analyst	1	2	3	4	Limited	Review Date	Reviewer	
4267	2/1/11	CJOC	WMO			✓			02/03/11	KLP	

Inventory Level 1: Individual Canister Certification Only. Certified clean to RLs listed in laboratory SOP for LLTO15.

Inventory Level 2: Individual or Batch Certification. Certified clean to 0.04 ppbv.

Inventory Level 3: Individual or Batch Certification. Certified clean to 0.20 ppbv.

Inventory Level 4: Individual or Batch Certification. Certified clean following procedures and RLs listed in laboratory SOP NJDEP-LLTO15.

Inventory Level Limited Use: Canisters may only be used for certain projects.

Comments:

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Matrix: Air Level: Low Lab File ID: cjoc003.d

Lab ID: LCS 200-13060/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	9.30	93	70-130	
Dichlorodifluoromethane	10.0	9.66	97	70-130	
Freon 22	10.0	9.74	97	70-130	
1,2-Dichlorotetrafluoroethane	10.0	9.60	96	70-130	
Chloromethane	10.0	9.49	95	70-130	
n-Butane	10.0	9.48	95	70-130	
Vinyl chloride	10.0	10.0	100	70-130	
1,3-Butadiene	10.0	10.7	107	70-130	
Bromomethane	10.0	9.50	95	70-130	
Chloroethane	10.0	9.48	95	70-130	
Bromoethene(Vinyl Bromide)	10.0	9.92	99	70-130	
Trichlorofluoromethane	10.0	9.56	96	70-130	
Ethanol	15.0	13.3	88	70-130	
Freon TF	10.0	10.3	103	70-130	
1,1-Dichloroethene	10.0	10.6	106	70-130	
Acetone	10.0	9.17	92	70-130	
Isopropyl alcohol	10.0	9.03	90	70-130	
Carbon disulfide	10.0	9.68	97	70-130	
3-Chloropropene	10.0	9.61	96	70-130	
Methylene Chloride	10.0	10.2	102	70-130	
tert-Butyl alcohol	10.0	9.51	95	70-130	
Methyl tert-butyl ether	10.0	9.08	91	70-130	
trans-1,2-Dichloroethene	10.0	9.83	98	70-130	
n-Hexane	10.0	9.58	96	70-130	
1,1-Dichloroethane	10.0	9.71	97	70-130	
Vinyl acetate	10.0	9.32	93	70-130	
Ethyl acetate	10.0	8.81	88	70-130	
Methyl Ethyl Ketone	10.0	8.76	88	70-130	
cis-1,2-Dichloroethene	10.0	9.75	97	70-130	
Chloroform	10.0	9.62	96	70-130	
Tetrahydrofuran	10.0	8.82	88	70-130	
1,1,1-Trichloroethane	10.0	9.53	95	70-130	
Cyclohexane	10.0	9.64	96	70-130	
Carbon tetrachloride	10.0	9.51	95	70-130	
2,2,4-Trimethylpentane	10.0	9.52	95	70-130	
Benzene	10.0	9.31	93	70-130	
1,2-Dichloroethane	10.0	9.61	96	70-130	
n-Heptane	10.0	9.44	94	70-130	
Trichloroethene	10.0	9.35	94	70-130	
Methyl methacrylate	10.0	8.57	86	70-130	
1,2-Dichloropropane	10.0	9.36	94	70-130	
1,4-Dioxane	10.0	7.83	78	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Matrix: Air Level: Low Lab File ID: cjoc003.d

Lab ID: LCS 200-13060/3 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	9.99	100	70-130	
cis-1,3-Dichloropropene	10.0	9.44	94	70-130	
methyl isobutyl ketone	10.0	9.05	91	70-130	
Toluene	10.0	8.93	89	70-130	
trans-1,3-Dichloropropene	10.0	9.23	92	70-130	
1,1,2-Trichloroethane	10.0	8.59	86	70-130	
Tetrachloroethene	10.0	8.94	89	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	8.74	87	70-130	
Dibromochloromethane	10.0	9.78	98	70-130	
1,2-Dibromoethane	10.0	9.01	90	70-130	
Chlorobenzene	10.0	8.82	88	70-130	
Ethylbenzene	10.0	8.70	87	70-130	
m,p-Xylene	20.0	17.3	87	70-130	
Xylene, o-	10.0	8.49	85	70-130	
Styrene	10.0	8.80	88	70-130	
Bromoform	10.0	9.41	94	70-130	
Cumene	10.0	8.76	88	70-130	
1,1,2,2-Tetrachloroethane	10.0	8.20	82	70-130	
n-Propylbenzene	10.0	8.85	89	70-130	
4-Ethyltoluene	10.0	9.05	90	70-130	
1,3,5-Trimethylbenzene	10.0	8.68	87	70-130	
2-Chlorotoluene	10.0	8.86	89	70-130	
tert-Butylbenzene	10.0	8.69	87	70-130	
1,2,4-Trimethylbenzene	10.0	8.46	85	70-130	
sec-Butylbenzene	10.0	8.69	87	70-130	
4-Isopropyltoluene	10.0	8.75	88	70-130	
1,3-Dichlorobenzene	10.0	8.29	83	70-130	
1,4-Dichlorobenzene	10.0	8.36	84	70-130	
Benzyl chloride	10.0	7.90	79	70-130	
n-Butylbenzene	10.0	8.74	87	70-130	
1,2-Dichlorobenzene	10.0	8.15	81	70-130	
1,2,4-Trichlorobenzene	10.0	7.68	77	70-130	
Hexachlorobutadiene	10.0	8.20	82	70-130	
Naphthalene	10.0	7.87	79	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Lab File ID: cjoc004.d Lab Sample ID: MB 200-13060/4

Matrix: Air Heated Purge: (Y/N) N

Instrument ID: C.i Date Analyzed: 02/01/2011 13:17

GC Column: RTX-624 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-13060/3	cjoc003.d	02/01/2011 12:29
4267	200-3550-6	cjoc027.d	02/02/2011 07:55

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-13060/4

Matrix: Air Lab File ID: cjoc004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 02/01/2011 13:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 13060 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.20	U	0.20	0.20
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-13060/4

Matrix: Air Lab File ID: cjoc004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 02/01/2011 13:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 13060 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.20	U	0.20	0.20
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-13060/4

Matrix: Air Lab File ID: cjoc004.d

Analysis Method: TO-15 Date Collected:

Sample wt/vol: 200(mL) Date Analyzed: 02/01/2011 13:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 13060 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/C.i/Csvr.p/cjocto15.b/cjoc004.d
Lab Smp Id: mb Client Smp ID: mb
Inj Date : 01-FEB-2011 13:17
Operator : wrd Inst ID: C.i
Smp Info : mb
Misc Info : 200,1
Comment :
Method : /chem/C.i/Csvr.p/cjocto15.b/to15v5.m
Meth Date : 02-Feb-2011 10:05 wrd Quant Type: ISTD
Cal Date : 28-JAN-2011 16:04 Cal File: cjo006.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	CONCENTRATIONS FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
11 2-Methylbutane	43	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Pentane	43	Compound Not Detected.					

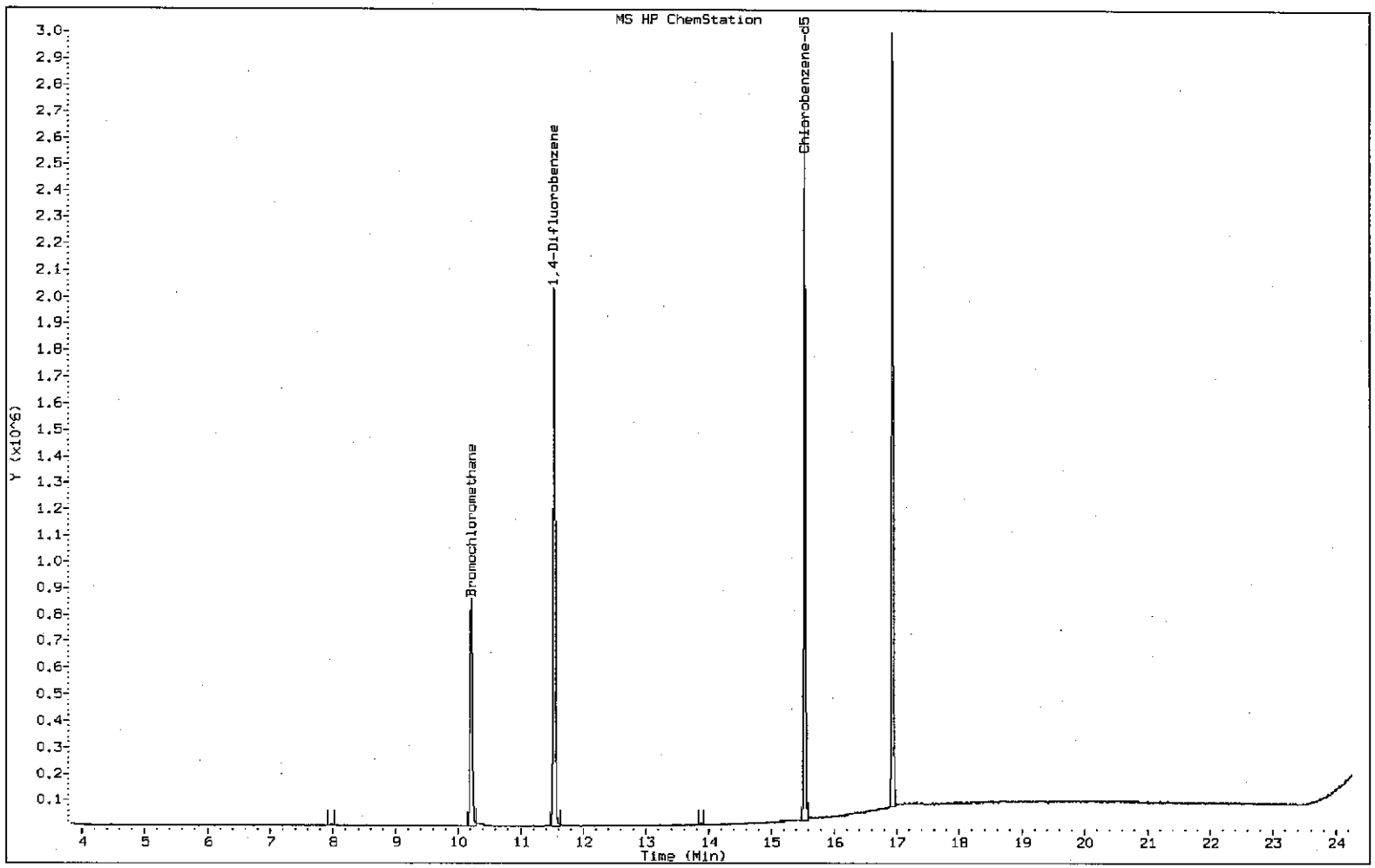
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	CONCENTRATIONS FINAL (ppb v/v)
	15 Ethanol	45	Compound Not Detected.					
	16 Ethyl ether	59	Compound Not Detected.					
	17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
	18 Acrolein	56	Compound Not Detected.					
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	24 Acetonitrile	41	Compound Not Detected.					
	25 Methylene chloride	49	7.977	7.993	(0.781)	3720	0.11472	0.11(a)
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	29 Acrylonitrile	53	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	10.213	10.223	(1.000)	330918	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	11.536	11.547	(1.000)	2209977	10.0000	
	48 n-Butanol	56	Compound Not Detected.					
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	52 Dibromomethane	174	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	57 n-Octane	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
62	2-Hexanone	43	Compound Not Detected.					
63	Dibromochloromethane	129	Compound Not Detected.					
64	1,2-Dibromoethane	107	Compound Not Detected.					
* 65	Chlorobenzene-d5	117	15.534	15.539	(1.000)	1872441	10.0000	
66	Chlorobenzene	112	Compound Not Detected.					
67	n-Nonane	57	Compound Not Detected.					
68	Ethylbenzene	91	Compound Not Detected.					
69	Xylene (m,p)	106	Compound Not Detected.					
M 70	Xylenes, Total	106	Compound Not Detected.					
71	Xylene (o)	106	Compound Not Detected.					
72	Styrene	104	Compound Not Detected.					
73	Bromoform	173	Compound Not Detected.					
74	Isopropylbenzene	105	Compound Not Detected.					
75	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
76	n-Propylbenzene	91	Compound Not Detected.					
77	1,2,3-Trichloropropane	75	Compound Not Detected.					
78	n-Decane	57	Compound Not Detected.					
79	4-Ethyltoluene	105	Compound Not Detected.					
80	2-Chlorotoluene	91	Compound Not Detected.					
81	1,3,5-Trimethylbenzene	105	Compound Not Detected.					
82	Alpha Methyl Styrene	118	Compound Not Detected.					
83	tert-butylbenzene	119	Compound Not Detected.					
84	1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85	sec-Butylbenzene	105	Compound Not Detected.					
86	4-Isopropyltoluene	119	Compound Not Detected.					
87	1,3-Dichlorobenzene	146	Compound Not Detected.					
88	1,4-Dichlorobenzene	146	Compound Not Detected.					
89	Benzyl chloride	91	Compound Not Detected.					
90	Undecane	57	Compound Not Detected.					
91	n-Butylbenzene	91	Compound Not Detected.					
92	1,2-Dichlorobenzene	146	Compound Not Detected.					
93	Dodecane	57	Compound Not Detected.					
94	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95	1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96	Naphthalene	128	Compound Not Detected.					
97	1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File:	cjoc004.d	Date:	01-FEB-2011 13:17
Client ID:	mb	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	mb		
Lab Sample ID:	mb		



FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Lab File ID: cjo001.d BFB Injection Date: 01/28/2011

Instrument ID: C.i BFB Injection Time: 11:19

Analysis Batch No.: 12941

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.5	
75	30.0 - 66.0% of mass 95	53.3	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	62.8	
175	4.0 - 9.0 % of mass 174	4.7	(7.5)1
176	93.0 - 101.0% of mass 174	60.4	(96.1)1
177	5.0 - 9.0% of mass 176	4.0	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-12941/4	cjo004.d	01/28/2011	14:27
	IC 200-12941/5	cjo005.d	01/28/2011	15:16
	IC 200-12941/6	cjo006.d	01/28/2011	16:04
	ICIS 200-12941/7	cjo007.d	01/28/2011	16:52
	IC 200-12941/8	cjo008.d	01/28/2011	17:40
	IC 200-12941/9	cjo009.d	01/28/2011	18:28
	IC 200-12941/10	cjo010.d	01/28/2011	19:17
	ICV 200-12941/16	cjo016.d	01/29/2011	00:59

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Lab File ID: cjoc001.d BFB Injection Date: 02/01/2011

Instrument ID: C.i BFB Injection Time: 10:35

Analysis Batch No.: 13060

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	18.3	
75	30.0 - 66.0% of mass 95	50.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	7.2	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	75.1	
175	4.0 - 9.0 % of mass 174	5.7	(7.6)1
176	93.0 - 101.0% of mass 174	72.9	(97.1)1
177	5.0 - 9.0% of mass 176	4.8	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-13060/2	cjoc002.d	02/01/2011	11:24
	LCS 200-13060/3	cjoc003.d	02/01/2011	12:29
	MB 200-13060/4	cjoc004.d	02/01/2011	13:17
4267	200-3550-6	cjoc027.d	02/02/2011	07:55

FORM VIII

AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Sample No.: ICIS 200-12941/7 Date Analyzed: 01/28/2011 16:52

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): cjo007.d Heated Purge: (Y/N) N

Calibration ID: 4556

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		354502	10.22	1963777	11.55	1622621	15.54
UPPER LIMIT		496303	10.55	2749288	11.88	2271669	15.87
LOWER LIMIT		212701	9.89	1178266	11.22	973573	15.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-12941/16		376768	10.22	2117452	11.55	1736433	15.54

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Sample No.: CCVIS 200-13060/2 Date Analyzed: 02/01/2011 11:24

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm)

Lab File ID (Standard): cjoc002.d Heated Purge: (Y/N) N

Calibration ID: 4556

		BCM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		425497	10.21	2398376	11.54	2034649	15.53
UPPER LIMIT		595696	10.54	3357726	11.87	2848509	15.86
LOWER LIMIT		255298	9.88	1439026	11.21	1220789	15.20
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-13060/3		424804	10.21	2395676	11.54	2163913	15.53
MB 200-13060/4		330918	10.21	2209977	11.54	1872441	15.53
200-3550-6	4267	352862	10.21	2299388	11.54	1854582	15.53

BCM = Bromochloromethane
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3550-1

SDG No.:

Client Sample ID: 4267 | Lab Sample ID: 200-3550-6

Matrix: Air | Lab File ID: cjoc027.d

Analysis Method: TO-15 | Date Collected: 01/26/2011 00:00

Sample wt/vol: 200(mL) | Date Analyzed: 02/02/2011 07:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 13060 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.20	U	0.20	0.20
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington | Job No.: 200-3550-1

SDG No.:

Client Sample ID: 4267 | Lab Sample ID: 200-3550-6

Matrix: Air | Lab File ID: cjoc027.d

Analysis Method: TO-15 | Date Collected: 01/26/2011 00:00

Sample wt/vol: 200(mL) | Date Analyzed: 02/02/2011 07:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-624 ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 13060 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.20	U	0.20	0.20
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Client Sample ID: 4267 Lab Sample ID: 200-3550-6

Matrix: Air Lab File ID: cjoc027.d

Analysis Method: TO-15 Date Collected: 01/26/2011 00:00

Sample wt/vol: 200(mL) Date Analyzed: 02/02/2011 07:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-624 ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 13060 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington

AIR TOXICS QUANTITATION REPORT

Lab Sample Id: 200-3550-6
Client Smp ID: 4267
Inj Date : 02-FEB-2011 07:55
Operator : wrd Inst ID: C.i
Smp Info : 200-3550-A-6
Misc Info : 200,1.0, all74+mn
Comment :
Method : /chem/C.i/Csvr.p/cjoctol5.b/to15v5.m
Meth Date : 02-Feb-2011 10:05 wrd Quant Type: ISTD
Cal Date : 28-JAN-2011 16:04 Cal File: cjo006.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all74+MN.sub
Target Version: 3.50
Processing Host: chemsvr6

Concentration Formula: Amt * DF * Uf*(Vo/Vo)*(Vf/Vf) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)
Vf	200.00000	Final Volume (mL)

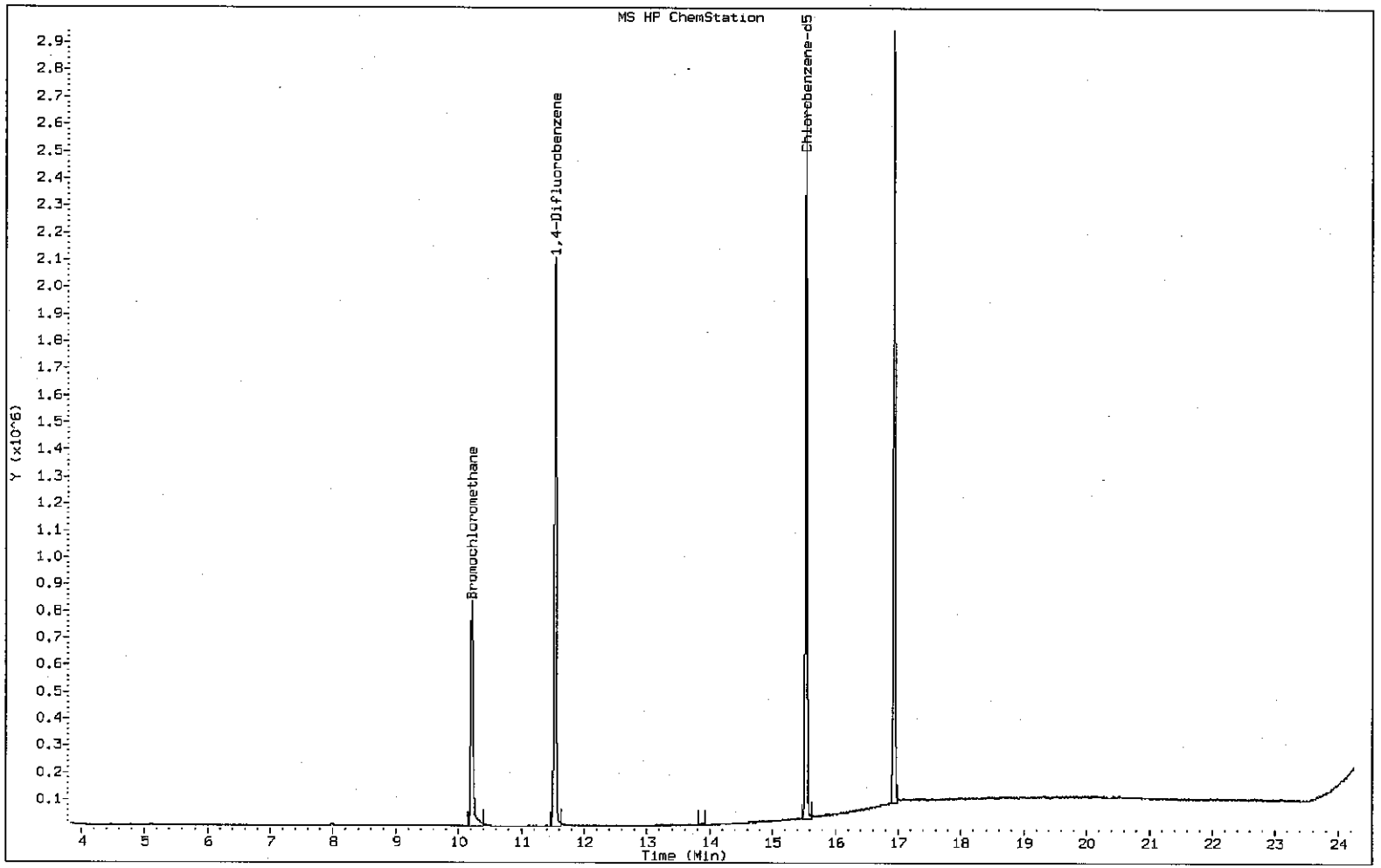
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	CONCENTRATIONS FINAL (ppb v/v)
1 Propene	41	Compound Not Detected.					
2 Dichlorodifluoromethane	85	Compound Not Detected.					
3 Chlorodifluoromethane	51	Compound Not Detected.					
4 1,2-Dichloro-1,1,2,2-tetraflu	85	Compound Not Detected.					
5 Chloromethane	50	Compound Not Detected.					
6 Butane	43	Compound Not Detected.					
7 Vinyl chloride	62	Compound Not Detected.					
8 1,3-Butadiene	54	Compound Not Detected.					
9 Bromomethane	94	Compound Not Detected.					
10 Chloroethane	64	Compound Not Detected.					
12 Vinyl bromide	106	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
15 Ethanol	45	Compound Not Detected.					
17 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	CONCENTRATIONS FINAL (ppb v/v)
	19 1,1-Dichloroethene	96	Compound Not Detected.					
	20 Acetone	43	Compound Not Detected.					
	21 Carbon disulfide	76	Compound Not Detected.					
	22 Isopropanol	45	Compound Not Detected.					
	23 Allyl chloride	41	Compound Not Detected.					
	25 Methylene chloride	49	Compound Not Detected.					
	26 Tert-butyl alcohol	59	Compound Not Detected.					
	27 Methyl tert-butyl ether	73	Compound Not Detected.					
	28 1,2-Dichloroethene (trans)	61	Compound Not Detected.					
	30 n-Hexane	57	Compound Not Detected.					
	31 1,1-Dichloroethane	63	Compound Not Detected.					
	32 Vinyl acetate	43	Compound Not Detected.					
M	33 1,2-Dichloroethene,Total	61	Compound Not Detected.					
	34 1,2-Dichloroethene (cis)	96	Compound Not Detected.					
	35 Ethyl acetate	88	Compound Not Detected.					
	36 Methyl Ethyl Ketone	72	Compound Not Detected.					
*	37 Bromochloromethane	128	10.213	10.223	(1.000)	352862	10.0000	
	38 Tetrahydrofuran	42	Compound Not Detected.					
	39 Chloroform	83	Compound Not Detected.					
	40 Cyclohexane	84	Compound Not Detected.					
	41 1,1,1-Trichloroethane	97	Compound Not Detected.					
	42 Carbon tetrachloride	117	Compound Not Detected.					
	43 2,2,4-Trimethylpentane	57	Compound Not Detected.					
	44 Benzene	78	Compound Not Detected.					
	45 1,2-Dichloroethane	62	Compound Not Detected.					
	46 n-Heptane	43	Compound Not Detected.					
*	47 1,4-Difluorobenzene	114	11.536	11.547	(1.000)	2299388	10.0000	
	49 Trichloroethene	95	Compound Not Detected.					
	50 1,2-Dichloropropane	63	Compound Not Detected.					
	51 Methyl methacrylate	69	Compound Not Detected.					
	53 1,4-Dioxane	88	Compound Not Detected.					
	54 Bromodichloromethane	83	Compound Not Detected.					
	55 1,3-Dichloropropene (cis)	75	Compound Not Detected.					
	56 Methyl isobutyl ketone	43	Compound Not Detected.					
	58 Toluene	92	Compound Not Detected.					
	59 1,3-Dichloropropene (trans)	75	Compound Not Detected.					
	60 1,1,2-Trichloroethane	83	Compound Not Detected.					
	61 Tetrachloroethene	166	Compound Not Detected.					
	62 2-Hexanone	43	Compound Not Detected.					
	63 Dibromochloromethane	129	Compound Not Detected.					
	64 1,2-Dibromoethane	107	Compound Not Detected.					
*	65 Chlorobenzene-d5	117	15.534	15.539	(1.000)	1854582	10.0000	
	66 Chlorobenzene	112	Compound Not Detected.					
	68 Ethylbenzene	91	Compound Not Detected.					
	69 Xylene (m,p)	106	Compound Not Detected.					
M	70 Xylenes, Total	106	Compound Not Detected.					
	71 Xylene (o)	106	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb v/v)	FINAL (ppb v/v)
72 Styrene	104	Compound Not Detected.					
73 Bromoform	173	Compound Not Detected.					
74 Isopropylbenzene	105	Compound Not Detected.					
75 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
76 n-Propylbenzene	91	Compound Not Detected.					
79 4-Ethyltoluene	105	Compound Not Detected.					
80 2-Chlorotoluene	91	Compound Not Detected.					
81 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
83 tert-butylbenzene	119	Compound Not Detected.					
84 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
85 sec-Butylbenzene	105	Compound Not Detected.					
86 4-Isopropyltoluene	119	Compound Not Detected.					
87 1,3-Dichlorobenzene	146	Compound Not Detected.					
88 1,4-Dichlorobenzene	146	Compound Not Detected.					
89 Benzyl chloride	91	Compound Not Detected.					
91 n-Butylbenzene	91	Compound Not Detected.					
92 1,2-Dichlorobenzene	146	Compound Not Detected.					
94 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
95 1,3-Hexachlorobutadiene	225	Compound Not Detected.					
96 Naphthalene	128	Compound Not Detected.					

Data File:	cjoc027.d	Date:	02-FEB-2011 07:55
Client ID:	4267	Instrument:	C.i
Operator:	wrd	Inj Vol:	200.0
Column Type:	Capillary	Diameter:	0.32
Stationary Phase:	RTX-624		
Sample Info:	200-3550-A-6		
Lab Sample ID:	200-3550-6		



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-3550-1 Analy Batch No.: 12941

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2011 14:27 Calibration End Date: 01/28/2011 19:17 Calibration ID: 4556

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-12941/4	ic 091288	cjo004.d
Level 2	IC 200-12941/5	ic 091270	cjo005.d
Level 3	IC 200-12941/6	ic 091269	cjo006.d
Level 4	ICIS 200-12941/7	icis 097879	cjo007.d
Level 5	IC 200-12941/8	ic 091187	cjo008.d
Level 6	IC 200-12941/9	ic 091186	cjo009.d
Level 7	IC 200-12941/10	ic 091184	cjo010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Propylene	+++++ 0.6393	0.7987 0.6188	0.6753	0.6599	0.6534	Ave		0.6742				9.5		30.0			
Dichlorodifluoromethane	+++++ 2.8597	3.0653 2.7381	2.9540	2.9170	2.9078	Ave		2.9070				3.7		30.0			
Freon 22	+++++ 1.4547	1.5902 1.3909	1.4935	1.5024	1.4802	Ave		1.4853				4.4		30.0			
1,2-Dichlorotetrafluoroethane	3.0469 3.0225	3.2935 2.8835	3.1270	3.0909	3.0862	Ave		3.0787				4.0		30.0			
Chloromethane	+++++ 0.7303	0.8858 0.6998	0.7807	0.7642	0.7574	Ave		0.7697				8.3		30.0			
n-Butane	+++++ 1.3203	1.4610 1.2659	1.3940	1.3682	1.3606	Ave		1.3617				4.9		30.0			
Vinyl chloride	0.7999 0.9442	0.9904 0.9049	0.9910	0.9769	0.9740	Ave		0.9402				7.3		30.0			
1,3-Butadiene	0.4739 0.6753	0.6234 0.6481	0.6844	0.6930	0.6855	Ave		0.6405				12.1		30.0			
Bromomethane	0.8210 0.9096	0.9099 0.8824	0.9213	0.9327	0.9245	Ave		0.9002				4.3		30.0			
Chloroethane	+++++ 0.4921	0.5100 0.4746	0.5098	0.5075	0.5006	Ave		0.4991				2.8		30.0			
Isopentane	1.0699 0.9758	1.0452 0.9374	1.0262	1.0171	1.0014	Ave		1.0105				4.4		30.0			
Acrolein	+++++ 0.3193	+++++ 0.3075	0.3041	0.2634	0.3212	Ave		0.3031				7.7		30.0			
Bromoethene(Vinyl Bromide)	0.8744 0.9910	0.9690 0.9659	0.9994	1.0014	0.9998	Ave		0.9716				4.7		30.0			
Trichlorofluoromethane	2.6689 2.6054	2.7936 2.5116	2.6599	2.6369	2.6398	Ave		2.6451				3.2		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-3550-1 Analy Batch No.: 12941

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2011 14:27 Calibration End Date: 01/28/2011 19:17 Calibration ID: 4556

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Pentane	+++++ 1.5159	1.5919 1.4431	1.5813	1.5823	1.5569	Ave		1.5452				3.7		30.0			
Ethanol	+++++ 0.2947	0.3524 0.2792	0.3278	0.3326	0.3060	Ave		0.3154				8.6		30.0			
Ethyl ether	0.6859 0.6704	0.7339 0.6226	0.6695	0.6681	0.6824	Ave		0.6761				4.9		30.0			
tert-Butyl alcohol	+++++ 1.2343	+++++ 1.1549	1.3392	1.7119	1.3116	Ave		1.3504				15.9		30.0			
Freon TF	1.9723 2.0016	2.0868 1.9326	2.0377	2.0309	2.0350	Ave		2.0138				2.5		30.0			
1,1-Dichloroethene	0.8571 0.9428	0.9508 0.9187	0.9545	0.9667	0.9572	Ave		0.9354				4.0		30.0			
Acetone	+++++ 1.2085	+++++ 1.1319	1.4465	1.4047	1.2484	Ave		1.2880				10.3		30.0			
Isopropyl alcohol	+++++ 0.7970	+++++ 0.7302	0.9230	1.0496	0.8773	Ave		0.8754				14.0		30.0			
Carbon disulfide	+++++ 2.8147	3.0277 2.7005	2.8790	2.8850	2.8714	Ave		2.8631				3.7		30.0			
3-Chloropropene	1.0740 1.0539	1.1021 1.0090	1.0871	1.0727	1.0763	Ave		1.0679				2.8		30.0			
Acetonitrile	+++++ 0.5653	+++++ 0.5193	0.5957	0.6109	0.5813	Ave		0.5745				6.1		30.0			
Methylene Chloride	+++++ 0.9274	1.1787 0.8765	0.9829	0.9583	0.9554	Ave		0.9799				10.6		30.0			
Methyl tert-butyl ether	2.8426 2.8121	3.0051 2.6031	2.7110	2.7995	2.8549	Ave		2.8040				4.5		30.0			
trans-1,2-Dichloroethene	1.3021 1.4110	1.5180 1.3451	1.4538	1.4342	1.4385	Ave		1.4147				5.1		30.0			
Acrylonitrile	+++++ 0.6345	0.6388 0.5928	0.6213	0.6265	0.6377	Ave		0.6253				2.8		30.0			
Ethyl acetate	+++++ 0.0983	+++++ 0.0911	0.0924	0.0954	0.0993	Ave		0.0953				3.7		30.0			
n-Hexane	1.6322 1.5208	1.6343 1.4574	1.5834	1.5787	1.5601	Ave		1.5667				4.0		30.0			
Vinyl acetate	+++++ 2.0891	+++++ 1.9198	2.0112	1.8984	2.0979	Ave		2.0033				4.6		30.0			
1,1-Dichloroethane	1.8057 1.7621	1.9307 1.6830	1.8396	1.8158	1.8035	Ave		1.8058				4.2		30.0			
cis-1,2-Dichloroethene	1.1706 1.1356	1.2388 1.0960	1.1659	1.1527	1.1495	Ave		1.1585				3.7		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-3550-1 Analy Batch No.: 12941

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2011 14:27 Calibration End Date: 01/28/2011 19:17 Calibration ID: 4556

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl Ethyl Ketone	+++++ 0.4618	0.5057 0.4274	0.4571	0.4735	0.4733	Ave		0.4665				5.5		30.0			
n-Butanol	+++++ 0.0575	+++++ 0.0609	0.0644	0.0750	0.0614	Ave		0.0638				10.5		30.0			
Tetrahydrofuran	+++++ 0.1631	+++++ 0.1553	0.1603	0.1637	0.1645	Ave		0.1614				2.3		30.0			
Chloroform	2.2218 2.1602	2.3620 2.0662	2.2495	2.2160	2.2126	Ave		2.2126				4.0		30.0			
Cyclohexane	0.2729 0.2890	0.2904 0.2928	0.2870	0.2946	0.2902	Ave		0.2881				2.5		30.0			
1,1,1-Trichloroethane	0.4014 0.4195	0.4294 0.4246	0.4173	0.4256	0.4201	Ave		0.4197				2.2		30.0			
1,4-Dioxane	+++++ 0.0702	+++++ 0.0656	0.0804	0.0905	0.0727	Ave		0.0759				12.9		30.0			
Carbon tetrachloride	0.3861 0.4333	0.4238 0.4397	0.4218	0.4347	0.4326	Ave		0.4246				4.3		30.0			
2,2,4-Trimethylpentane	0.8807 0.8789	0.9508 0.8705	0.9024	0.9174	0.8907	Ave		0.8988				3.1		30.0			
Benzene	0.6692 0.6053	0.6721 0.5984	0.6193	0.6238	0.6113	Ave		0.6285				4.8		30.0			
1,2-Dichloroethane	0.2603 0.2604	0.2742 0.2617	0.2642	0.2658	0.2622	Ave		0.2641				1.8		30.0			
n-Heptane	0.3141 0.2994	0.3254 0.2944	0.3108	0.3137	0.3027	Ave		0.3086				3.4		30.0			
Trichloroethene	0.2634 0.2770	0.2900 0.2818	0.2756	0.2839	0.2781	Ave		0.2786				3.0		30.0			
1,2-Dichloropropane	0.2004 0.2034	0.2160 0.1991	0.2072	0.2056	0.2029	Ave		0.2049				2.7		30.0			
Methyl methacrylate	+++++ 0.1863	0.1460 0.1840	0.1624	0.1795	0.1847	Ave		0.1738				9.3		30.0			
Dibromomethane	0.1953 0.2276	0.2113 0.2326	0.2164	0.2269	0.2263	Ave		0.2195				5.9		30.0			
Bromodichloromethane	0.3688 0.4403	0.4076 0.4399	0.4310	0.4374	0.4369	Ave		0.4231				6.3		30.0			
cis-1,3-Dichloropropene	0.3220 0.3373	0.3397 0.3288	0.3312	0.3289	0.3284	Ave		0.3309				1.8		30.0			
methyl isobutyl ketone	+++++ 0.3239	0.2853 0.3082	0.3034	0.3332	0.3247	Ave		0.3131				5.6		30.0			
n-Octane	0.4482 0.4163	0.4582 0.4001	0.4345	0.4255	0.4170	Ave		0.4285				4.7		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-3550-1 Analy Batch No.: 12941

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2011 14:27 Calibration End Date: 01/28/2011 19:17 Calibration ID: 4556

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Toluene	0.5343 0.5146	0.5546 0.5411	0.5188	0.5548	0.5229	Ave		0.5345				3.1		30.0			
trans-1,3-Dichloropropene	0.2982 0.3304	0.3232 0.3217	0.3138	0.3192	0.3195	Ave		0.3180				3.2		30.0			
1,1,2-Trichloroethane	0.2288 0.2291	0.2411 0.2419	0.2308	0.2479	0.2327	Ave		0.2360				3.2		30.0			
Tetrachloroethene	0.3801 0.4155	0.4166 0.4529	0.4065	0.4513	0.4242	Ave		0.4210				6.0		30.0			
Methyl Butyl Ketone (2-Hexanone)	+++++ 0.3319	0.2739 0.3511	0.3147	0.3836	0.3430	Ave		0.3330				11.1		30.0			
Dibromochloromethane	0.3548 0.4867	0.4069 0.5239	0.4537	0.5049	0.4854	Ave		0.4595				13.0		30.0			
1,2-Dibromoethane	0.3858 0.4302	0.4186 0.4541	0.4216	0.4598	0.4297	Ave		0.4285				5.7		30.0			
Chlorobenzene	0.6676 0.6813	0.7247 0.7207	0.6794	0.7350	0.6862	Ave		0.6993				3.8		30.0			
n-Nonane	0.4203 0.4451	0.4556 0.4637	0.4264	0.4801	0.4550	Ave		0.4495				4.6		30.0			
Ethylbenzene	0.9726 1.0549	1.0819 1.0995	1.0115	1.1351	1.0764	Ave		1.0617				5.2		30.0			
m,p-Xylene	0.3605 0.4317	0.4209 0.4559	0.4012	0.4560	0.4370	Ave		0.4233				8.0		30.0			
Xylene, o-	0.3718 0.4322	0.4189 0.4650	0.3982	0.4541	0.4357	Ave		0.4251				7.6		30.0			
Styrene	0.4624 0.6581	0.5360 0.7131	0.5782	0.6859	0.6586	Ave		0.6132				14.8		30.0			
Bromoform	0.3112 0.4398	0.3577 0.4770	0.3930	0.4508	0.4406	Ave		0.4100				14.3		30.0			
Cumene	1.0268 1.2267	1.1843 1.2951	1.1385	1.3011	1.2523	Ave		1.2035				8.1		30.0			
1,1,2,2-Tetrachloroethane	0.4956 0.5636	0.5746 0.6037	0.5346	0.6184	0.5800	Ave		0.5672				7.3		30.0			
n-Propylbenzene	1.0316 1.3731	1.2970 1.4423	1.2765	1.4854	1.4044	Ave		1.3300				11.4		30.0			
1,2,3-Trichloropropane	+++++ 0.4255	0.4272 0.4521	0.4046	0.4669	0.4366	Ave		0.4355				5.0		30.0			
n-Decane	+++++ 0.5085	0.4026 0.5328	0.4223	0.5023	0.5221	Ave		0.4818				11.4		30.0			
4-Ethyltoluene	0.8051 1.1864	1.0911 1.2577	1.0946	1.2846	1.2154	Ave		1.1335				14.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Burlington Job No.: 200-3550-1 Analy Batch No.: 12941

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2011 14:27 Calibration End Date: 01/28/2011 19:17 Calibration ID: 4556

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	0.8186 0.9604	0.9967 1.0297	0.9071	1.0321	0.9796	Ave		0.9606				7.9		30.0			
1,3,5-Trimethylbenzene	0.6607 1.0107	0.8768 1.0802	0.9105	1.0721	1.0312	Ave		0.9489				15.7		30.0			
Alpha Methyl Styrene	0.2836 0.5207	0.3587 0.5795	0.4321	0.5312	0.5223	Ave		0.4612				23.3		30.0			
tert-Butylbenzene	0.7073 0.9953	0.9392 1.0706	0.9010	1.0521	1.0151	Ave		0.9544				13.0		30.0			
1,2,4-Trimethylbenzene	0.6345 0.9938	0.8342 1.0753	0.8776	1.0484	1.0113	Ave		0.9250				16.8		30.0			
sec-Butylbenzene	1.0166 1.4424	1.3322 1.5292	1.3054	1.5367	1.4734	Ave		1.3766				13.2		30.0			
4-Isopropyltoluene	0.8218 1.2399	0.9909 1.3289	1.0675	1.2942	1.2666	Ave		1.1443				16.5		30.0			
1,3-Dichlorobenzene	0.5461 0.6578	0.6275 0.7274	0.5805	0.6965	0.6615	Ave		0.6425				9.9		30.0			
1,4-Dichlorobenzene	0.4874 0.6472	0.5999 0.7186	0.5609	0.6857	0.6484	Ave		0.6212				12.7		30.0			
Benzyl chloride	0.5282 0.8129	0.6089 0.9134	0.6664	0.7411	0.8191	Ave		0.7271				18.4		30.0			
n-Undecane	+++++ 0.3969	+++++ 0.4742	0.3755	0.4807	0.3895	Ave		0.4234				11.8		30.0			
n-Butylbenzene	0.6611 1.0183	0.7805 1.0917	0.8241	1.0382	1.0361	Ave		0.9214				17.8		30.0			
1,2-Dichlorobenzene	0.4733 0.6279	0.5965 0.6953	0.5511	0.6656	0.6334	Ave		0.6062				12.3		30.0			
n-Dodecane	+++++ 0.2715	+++++ 0.1471	0.2475	0.3034	0.2793	Ave		0.2497				24.3		30.0			
1,2,4-Trichlorobenzene	+++++ 0.3261	0.3690 0.3079	0.2977	0.3787	0.3274	Ave		0.3345				9.8		30.0			
Hexachlorobutadiene	0.2578 0.3337	0.3348 0.2563	0.2750	0.3334	0.3434	Ave		0.3049				13.0		30.0			
Naphthalene	+++++ 0.7264	0.7827 0.6950	0.6630	0.8014	0.7343	Ave		0.7338				7.1		30.0			
1,2,3-Trichlorobenzene	0.2449 0.2674	0.3506 0.1930	0.2597	0.3210	0.2741	Ave		0.2730				18.7		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-3550-1 Analy Batch No.: 12941

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2011 14:27 Calibration End Date: 01/28/2011 19:17 Calibration ID: 4556

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-12941/4	cjo004.d
Level 2	IC 200-12941/5	cjo005.d
Level 3	IC 200-12941/6	cjo006.d
Level 4	ICIS 200-12941/7	cjo007.d
Level 5	IC 200-12941/8	cjo008.d
Level 6	IC 200-12941/9	cjo009.d
Level 7	IC 200-12941/10	cjo010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propylene	BCM	Ave	+++++ 473198	13680 946905	117240	233946	354308	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dichlorodifluoromethane	BCM	Ave	+++++ 2116707	52503 4190132	512849	1034086	1576800	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Freon 22	BCM	Ave	+++++ 1076744	27237 2128506	259282	532613	802671	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	20029 2237253	56412 4412528	542885	1095745	1673551	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloromethane	BCM	Ave	+++++ 540561	15172 1070957	135535	270904	410714	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Butane	BCM	Ave	+++++ 977270	25024 1937106	242021	485018	737820	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl chloride	BCM	Ave	5258 698866	16964 1384824	172055	346324	528166	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Butadiene	BCM	Ave	3115 499827	10677 991814	118812	245674	371725	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromomethane	BCM	Ave	5397 673309	15585 1350361	159943	330632	501302	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloroethane	BCM	Ave	+++++ 364232	8736 726246	88500	179911	271482	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Isopentane	BCM	Ave	7033 722270	17903 1434550	178162	360578	543055	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acrolein	BCM	Ave	+++++ 236368	+++++ 470600	52792	93381	174165	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Bromoethene(Vinyl Bromide)	BCM	Ave	5748 733511	16598 1478058	173502	355006	542146	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichlorofluoromethane	BCM	Ave	17544 1928468	47850 3843452	461791	934769	1431487	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Pentane	BCM	Ave	+++++ 1122073	27266 2208307	274538	560923	844258	+++++ 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-3550-1 Analy Batch No.: 12941

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2011 14:27 Calibration End Date: 01/28/2011 19:17 Calibration ID: 4556

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Ethanol	BCM	Ave	+++++ 436273	60354 1068027	113804	176843	221254	+++++ 40.0	5.00 100	10.0	15.0	20.0
Ethyl ether	BCM	Ave	4509 496238	12571 952780	116225	236850	370066	0.200 20.0	0.500 40.0	5.00	10.0	15.0
tert-Butyl alcohol	BCM	Ave	+++++ 913601	+++++ 1767358	232496	606868	711233	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Freon TF	BCM	Ave	12965 1481531	35744 2957362	353767	719963	1103536	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethene	BCM	Ave	5634 697888	16286 1405801	165721	342683	519059	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetone	BCM	Ave	+++++ 894521	+++++ 1732120	251129	497956	676968	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Isopropyl alcohol	BCM	Ave	+++++ 589904	+++++ 1117406	160236	372101	475712	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Carbon disulfide	BCM	Ave	+++++ 2083414	51859 4132539	499838	1022726	1557094	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
3-Chloropropene	BCM	Ave	7060 780105	18877 1544045	188733	380274	583658	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetonitrile	BCM	Ave	+++++ 418454	+++++ 794635	103427	216574	315227	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Methylene Chloride	BCM	Ave	+++++ 686466	20189 1341253	170650	339729	518076	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Methyl tert-butyl ether	BCM	Ave	18686 2081453	51472 3983496	470668	992429	1548134	0.200 20.0	0.500 40.0	5.00	10.0	15.0
trans-1,2-Dichloroethene	BCM	Ave	8559 1044437	26001 2058407	252404	508410	780058	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acrylonitrile	BCM	Ave	+++++ 469675	10941 907201	107867	222087	345826	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Ethyl acetate	BCM	Ave	+++++ 72728	+++++ 139481	16041	33816	53833	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
n-Hexane	BCM	Ave	10729 1125646	27993 2230239	274898	559637	845984	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl acetate	BCM	Ave	+++++ 1546306	+++++ 2937788	349178	672988	1137637	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
1,1-Dichloroethane	BCM	Ave	11870 1304320	33069 2575485	319385	643689	977966	0.200 20.0	0.500 40.0	5.00	10.0	15.0
cis-1,2-Dichloroethene	BCM	Ave	7695 840577	21219 1677260	202417	408625	623344	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl Ethyl Ketone	BCM	Ave	+++++ 341826	8662 653979	79355	167860	256673	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Butanol	DFB	Ave	+++++ 234970	+++++ 490902	63667	147211	186617	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-3550-1 Analy Batch No.: 12941

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2011 14:27 Calibration End Date: 01/28/2011 19:17 Calibration ID: 4556

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tetrahydrofuran	DFB	Ave	+++++ 666630	+++++ 1252682	158479	321443	500339	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Chloroform	BCM	Ave	14605 1598967	40458 3161873	390542	785573	1199809	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cyclohexane	DFB	Ave	10394 1181294	28576 2361764	283718	578461	882459	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,1-Trichloroethane	DFB	Ave	15287 1714977	42249 3425002	412634	835734	1277656	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,4-Dioxane	DFB	Ave	+++++ 286959	+++++ 528881	79539	177791	221093	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
Carbon tetrachloride	DFB	Ave	14705 1771422	41700 3546789	417063	853677	1315642	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2,2,4-Trimethylpentane	DFB	Ave	33544 3593094	93551 7020904	892204	1801500	2708606	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzene	DFB	Ave	25488 2474310	66122 4826823	612255	1225099	1859091	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethane	DFB	Ave	9916 1064484	26977 2110622	261252	522036	797356	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Heptane	DFB	Ave	11964 1223806	32012 2374687	307330	616001	920412	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichloroethene	DFB	Ave	10031 1132422	28536 2273169	272469	557531	845877	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloropropane	DFB	Ave	7631 831419	21254 1605749	204872	403764	616946	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl methacrylate	DFB	Ave	+++++ 761586	14368 1483823	160518	352448	561545	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dibromomethane	DFB	Ave	7439 930614	20790 1875715	213982	445615	688066	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromodichloromethane	DFB	Ave	14047 1800110	40104 3548028	426159	858936	1328666	0.200 20.0	0.500 40.0	5.00	10.0	15.0
cis-1,3-Dichloropropene	DFB	Ave	12266 1378723	33426 2652237	327465	645936	998786	0.200 20.0	0.500 40.0	5.00	10.0	15.0
methyl isobutyl ketone	DFB	Ave	+++++ 1323960	28068 2485886	300011	654267	987535	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Octane	DFB	Ave	17072 1701862	45083 3226992	429571	835567	1268216	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Toluene	CBZ	Ave	18632 1890868	49390 3618625	459072	900275	1386608	0.200 20.0	0.500 40.0	5.00	10.0	15.0
trans-1,3-Dichloropropene	DFB	Ave	11358 1350580	31802 2594496	310253	626888	971661	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloroethane	CBZ	Ave	7979 841841	21475 1617637	204232	402252	616995	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-3550-1 Analy Batch No.: 12941

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2011 14:27 Calibration End Date: 01/28/2011 19:17 Calibration ID: 4556

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Tetrachloroethene	CBZ	Ave	13256 1526502	37105 3028549	359708	732294	1124867	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	+++++ 1219423	24396 2347829	278462	622404	909488	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Dibromochloromethane	CBZ	Ave	12374 1788264	36234 3504001	401477	819338	1286959	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dibromoethane	CBZ	Ave	13453 1580708	37278 3036999	373065	746006	1139352	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chlorobenzene	CBZ	Ave	23281 2503310	64538 4819805	601138	1192569	1819634	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Nonane	CBZ	Ave	14655 1635465	40579 3100900	377338	779043	1206585	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Ethylbenzene	CBZ	Ave	33915 3875789	96351 7352942	894973	1841772	2854210	0.200 20.0	0.500 40.0	5.00	10.0	15.0
m,p-Xylene	CBZ	Ave	25141 3172043	74968 6097319	709990	1479715	2317317	0.400 40.0	1.00 80.0	10.0	20.0	30.0
Xylene, o-	CBZ	Ave	12965 1587814	37303 3109909	352385	736772	1155314	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Styrene	CBZ	Ave	16124 2418148	47739 4769309	511595	1113014	1746287	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoform	CBZ	Ave	10853 1615879	31853 3189890	347736	731450	1168409	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cumene	CBZ	Ave	35807 4506982	105469 8661075	1007359	2111178	3320670	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	17281 2070856	51177 4037584	473023	1003350	1537820	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Propylbenzene	CBZ	Ave	35974 5045009	115507 9645702	1129510	2410234	3723905	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,3-Trichloropropane	CBZ	Ave	+++++ 1563394	38048 3023210	357995	757531	1157821	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
n-Decane	CBZ	Ave	+++++ 1868270	35857 3563503	373635	815002	1384355	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
4-Ethyltoluene	CBZ	Ave	28077 4359061	97171 8411143	968505	2084384	3222682	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2-Chlorotoluene	CBZ	Ave	28545 3528755	88761 6886381	802626	1674703	2597450	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3,5-Trimethylbenzene	CBZ	Ave	23040 3713494	78083 7224265	805645	1739600	2734448	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Alpha Methyl Styrene	CBZ	Ave	9890 1913207	31949 3875380	382377	861938	1384939	0.200 20.0	0.500 40.0	5.00	10.0	15.0
tert-Butylbenzene	CBZ	Ave	24665 3656877	83640 7159897	797242	1707134	2691680	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-3550-1 Analy Batch No.: 12941

SDG No.:

Instrument ID: C.i GC Column: RTX-624 ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/28/2011 14:27 Calibration End Date: 01/28/2011 19:17 Calibration ID: 4556

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBZ	Ave	22127 3651443	74291 7191348	776528	1701224	2681654	0.200 20.0	0.500 40.0	5.00	10.0	15.0
sec-Butylbenzene	CBZ	Ave	35451 5299501	118640 10226575	1155100	2493522	3906901	0.200 20.0	0.500 40.0	5.00	10.0	15.0
4-Isopropyltoluene	CBZ	Ave	28659 4555681	88250 8886918	944610	2100029	3358544	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichlorobenzene	CBZ	Ave	19044 2416875	55886 4864642	513664	1130105	1753949	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,4-Dichlorobenzene	CBZ	Ave	16996 2377968	53428 4805590	496271	1112706	1719236	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzyl chloride	CBZ	Ave	18418 2986626	54224 6108615	589683	1202499	2171798	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Undecane	CBZ	Ave	+++++ 1458160	+++++ 3171569	332281	779969	1032787	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
n-Butylbenzene	CBZ	Ave	23053 3741355	69513 7300796	729179	1684600	2747205	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorobenzene	CBZ	Ave	16504 2307048	53123 4649673	487676	1079994	1679597	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Dodecane	CBZ	Ave	+++++ 997451	+++++ 983530	218955	492361	740606	+++++ 20.0	+++++ 40.0	5.00	10.0	15.0
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 1198297	32864 2059058	263376	614556	868183	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
Hexachlorobutadiene	CBZ	Ave	8989 1226204	29814 1714165	243328	540972	910500	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Naphthalene	CBZ	Ave	+++++ 2668851	69707 4647797	586627	1300348	1947058	+++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2,3-Trichlorobenzene	CBZ	Ave	8541 982476	31223 1290980	229837	520825	726903	0.200 20.0	0.500 40.0	5.00	10.0	15.0

Curve Type Legend:
Ave = Average ISTD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Lab Sample ID: ICV 200-12941/16 Calibration Date: 01/29/2011 00:59

Instrument ID: C.i Calib Start Date: 01/28/2011 14:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/28/2011 19:17

Lab File ID: cjo016.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.6742	0.5790		8.59	10.0	-14.1	30.0
Dichlorodifluoromethane	Ave	2.907	2.723		9.37	10.0	-6.3	30.0
Freon 22	Ave	1.485	1.355		9.12	10.0	-8.8	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.079	2.905		9.44	10.0	-5.6	30.0
Chloromethane	Ave	0.7697	0.7006		9.10	10.0	-9.0	30.0
n-Butane	Ave	1.362	1.252		9.19	10.0	-8.1	30.0
Vinyl chloride	Ave	0.9402	0.9151		9.73	10.0	-2.7	30.0
1,3-Butadiene	Ave	0.6405	0.6598		10.3	10.0	3.0	30.0
Bromomethane	Ave	0.9002	0.8577		9.53	10.0	-4.7	30.0
Chloroethane	Ave	0.4991	0.4702		9.42	10.0	-5.8	30.0
Isopentane	Ave	1.010	0.9425		9.33	10.0	-6.7	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9716	0.9669		9.95	10.0	-0.5	30.0
Trichlorofluoromethane	Ave	2.645	2.495		9.43	10.0	-5.7	30.0
n-Pentane	Ave	1.545	1.426		9.23	10.0	-7.7	30.0
Ethanol	Ave	0.3154	0.2659		12.7	15.0	-15.7	30.0
Ethyl ether	Ave	0.6761	0.5657		8.37	10.0	-16.3	30.0
Acrolein	Ave	0.3031	0.2190		7.22	10.0	-27.7	30.0
Freon TF	Ave	2.014	2.079		10.3	10.0	3.2	30.0
1,1-Dichloroethene	Ave	0.9354	0.999		10.7	10.0	6.8	30.0
Acetone	Ave	1.288	1.087		8.43	10.0	-15.6	30.0
Isopropyl alcohol	Ave	0.8754	0.7267		8.30	10.0	-17.0	30.0
Carbon disulfide	Ave	2.863	2.761		9.64	10.0	-3.6	30.0
3-Chloropropene	Ave	1.068	1.004		9.40	10.0	-6.0	30.0
Acetonitrile	Ave	0.5745	0.4994		8.69	10.0	-13.1	30.0
Methylene Chloride	Ave	0.9799	0.9630		9.83	10.0	-1.7	30.0
tert-Butyl alcohol	Ave	1.350	1.144		8.47	10.0	-15.3	30.0
Methyl tert-butyl ether	Ave	2.804	2.421		8.63	10.0	-13.7	30.0
trans-1,2-Dichloroethene	Ave	1.415	1.360		9.61	10.0	-3.9	30.0
Acrylonitrile	Ave	0.5360	0.5582		8.92	10.0	4.1	30.0
n-Hexane	Ave	1.567	1.487		9.49	10.0	-5.1	30.0
1,1-Dichloroethane	Ave	1.806	1.722		9.54	10.0	-4.6	30.0
Vinyl acetate	Ave	2.003	1.756		8.76	10.0	-12.3	30.0
Ethyl acetate	Ave	0.0953	0.0796		8.35	10.0	-16.5	30.0
cis-1,2-Dichloroethene	Ave	1.158	1.118		9.65	10.0	-3.5	30.0
Methyl Ethyl Ketone	Ave	0.4665	0.3950		8.47	10.0	-15.3	30.0
Tetrahydrofuran	Ave	0.1614	0.1353		8.38	10.0	-16.1	30.0
Chloroform	Ave	2.213	2.086		9.42	10.0	-5.7	30.0
Cyclohexane	Ave	0.2881	0.2781		9.65	10.0	-3.5	30.0
1,1,1-Trichloroethane	Ave	0.4197	0.3958		9.43	10.0	-5.7	30.0
Carbon tetrachloride	Ave	0.4246	0.3982		9.38	10.0	-6.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Lab Sample ID: ICV 200-12941/16 Calibration Date: 01/29/2011 00:59

Instrument ID: C.i Calib Start Date: 01/28/2011 14:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/28/2011 19:17

Lab File ID: cjo016.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,2,4-Trimethylpentane	Ave	0.8988	0.8476		9.43	10.0	-5.7	30.0
Benzene	Ave	0.6285	0.5830		9.27	10.0	-7.2	30.0
1,2-Dichloroethane	Ave	0.2641	0.2449		9.27	10.0	-7.3	30.0
n-Heptane	Ave	0.3086	0.2876		9.32	10.0	-6.8	30.0
n-Butanol	Ave	0.0638	0.0483		7.56	10.0	-24.4	30.0
Trichloroethene	Ave	0.2786	0.2608		9.36	10.0	-6.4	30.0
1,2-Dichloropropane	Ave	0.2049	0.1890		9.22	10.0	-7.8	30.0
Methyl methacrylate	Ave	0.1738	0.1448		8.33	10.0	-16.7	30.0
1,4-Dioxane	Ave	0.0759	0.0570		7.52	10.0	-24.8	30.0
Dibromomethane	Ave	0.2195	0.2114		9.63	10.0	-3.7	30.0
Bromodichloromethane	Ave	0.4231	0.4160		9.83	10.0	-1.7	30.0
cis-1,3-Dichloropropene	Ave	0.3309	0.3008		9.09	10.0	-9.1	30.0
methyl isobutyl ketone	Ave	0.3131	0.2710		8.65	10.0	-13.5	30.0
n-Octane	Ave	0.4285	0.3862		9.01	10.0	-9.9	30.0
Toluene	Ave	0.5345	0.5110		9.56	10.0	-4.4	30.0
trans-1,3-Dichloropropene	Ave	0.3180	0.2844		8.94	10.0	-10.6	30.0
1,1,2-Trichloroethane	Ave	0.2360	0.2176		9.22	10.0	-7.8	30.0
Tetrachloroethene	Ave	0.4210	0.4148		9.85	10.0	-1.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3330	0.3064		9.20	10.0	-8.0	30.0
Dibromochloromethane	Ave	0.4595	0.4837		10.5	10.0	5.3	30.0
1,2-Dibromoethane	Ave	0.4285	0.4190		9.78	10.0	-2.2	30.0
Chlorobenzene	Ave	0.6993	0.6683		9.55	10.0	-4.4	30.0
n-Nonane	Ave	0.4495	0.4168		9.27	10.0	-7.3	30.0
Ethylbenzene	Ave	1.062	0.9891		9.31	10.0	-6.8	30.0
m,p-Xylene	Ave	0.4233	0.3943		18.6	20.0	-6.8	30.0
Xylene, o-	Ave	0.4251	0.3871		9.10	10.0	-9.0	30.0
Styrene	Ave	0.6132	0.5840		9.52	10.0	-4.8	30.0
Bromoform	Ave	0.4100	0.4179		10.2	10.0	1.9	30.0
Cumene	Ave	1.204	1.134		9.42	10.0	-5.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5672	0.4985		8.79	10.0	-12.1	30.0
n-Propylbenzene	Ave	1.330	1.264		9.50	10.0	-5.0	30.0
1,2,3-Trichloropropane	Ave	0.4355	0.3930		9.02	10.0	-9.8	30.0
n-Decane	Ave	0.4818	0.4260		8.84	10.0	-11.6	30.0
4-Ethyltoluene	Ave	1.134	1.101		9.71	10.0	-2.9	30.0
2-Chlorotoluene	Ave	0.9606	0.9135		9.51	10.0	-4.9	30.0
1,3,5-Trimethylbenzene	Ave	0.9489	0.8824		9.30	10.0	-7.0	30.0
Alpha Methyl Styrene	Ave	0.4612	0.4452		9.65	10.0	-3.5	30.0
tert-Butylbenzene	Ave	0.9544	0.8948		9.37	10.0	-6.2	30.0
1,2,4-Trimethylbenzene	Ave	0.9250	0.8422		9.10	10.0	-9.0	30.0
sec-Butylbenzene	Ave	1.377	1.287		9.35	10.0	-6.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Lab Sample ID: ICV 200-12941/16 Calibration Date: 01/29/2011 00:59

Instrument ID: C.i Calib Start Date: 01/28/2011 14:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/28/2011 19:17

Lab File ID: cjo016.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Isopropyltoluene	Ave	1.144	1.088		9.51	10.0	-4.9	30.0
1,3-Dichlorobenzene	Ave	0.6425	0.5791		9.01	10.0	-9.9	30.0
1,4-Dichlorobenzene	Ave	0.6212	0.5633		9.07	10.0	-9.3	30.0
Benzyl chloride	Ave	0.7271	0.6217		8.55	10.0	-14.5	30.0
n-Undecane	Ave	0.4234	0.3809		9.00	10.0	-10.0	30.0
n-Butylbenzene	Ave	0.9214	0.8717		9.46	10.0	-5.4	30.0
1,2-Dichlorobenzene	Ave	0.6062	0.5350		8.82	10.0	-11.7	30.0
n-Dodecane	Ave	0.2497	0.2644		10.6	10.0	5.9	30.0
1,2,4-Trichlorobenzene	Ave	0.3345	0.2908		8.69	10.0	-13.1	30.0
Hexachlorobutadiene	Ave	0.3049	0.2741		8.99	10.0	-10.1	30.0
Naphthalene	Ave	0.7338	0.6665		9.08	10.0	-9.2	30.0
1,2,3-Trichlorobenzene	Ave	0.2730	0.2630		9.63	10.0	-3.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Lab Sample ID: CCVIS 200-13060/2 Calibration Date: 02/01/2011 11:24

Instrument ID: C.i Calib Start Date: 01/28/2011 14:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/28/2011 19:17

Lab File ID: cjoc002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 097879

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.6742	0.6418		9.52	10.0	-4.8	30.0
Dichlorodifluoromethane	Ave	2.907	2.899		9.97	10.0	-0.3	30.0
Freon 22	Ave	1.485	1.470		9.90	10.0	-1.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.079	3.050		9.90	10.0	-0.9	30.0
Chloromethane	Ave	0.7697	0.7567		9.83	10.0	-1.7	30.0
n-Butane	Ave	1.362	1.357		9.97	10.0	-0.3	30.0
Vinyl chloride	Ave	0.9402	0.9730		10.3	10.0	3.5	30.0
1,3-Butadiene	Ave	0.6405	0.6860		10.7	10.0	7.1	30.0
Bromomethane	Ave	0.9002	0.9111		10.1	10.0	1.2	30.0
Chloroethane	Ave	0.4991	0.4935		9.89	10.0	-1.1	30.0
Isopentane	Ave	1.010	0.997		9.87	10.0	-1.3	30.0
Bromoethene(Vinyl Bromide)	Ave	0.9716	0.9766		10.0	10.0	0.5	30.0
Trichlorofluoromethane	Ave	2.645	2.604		9.84	10.0	-1.6	30.0
n-Pentane	Ave	1.545	1.542		9.98	10.0	-0.2	30.0
Ethanol	Ave	0.3154	0.2878		13.7	15.0	-8.8	30.0
Ethyl ether	Ave	0.6761	0.6385		9.44	10.0	-5.6	30.0
Acrolein	Ave	0.3031	0.2535		8.36	10.0	-16.4	30.0
Freon TF	Ave	2.014	1.982		9.84	10.0	-1.6	30.0
1,1-Dichloroethene	Ave	0.9354	0.9380		10.0	10.0	0.3	30.0
Acetone	Ave	1.288	1.348		10.5	10.0	4.7	30.0
Isopropyl alcohol	Ave	0.8754	0.9071		10.4	10.0	3.6	30.0
Carbon disulfide	Ave	2.863	2.831		9.88	10.0	-1.1	30.0
3-Chloropropene	Ave	1.068	1.045		9.78	10.0	-2.2	30.0
Acetonitrile	Ave	0.5745	0.5915		10.3	10.0	3.0	30.0
Methylene Chloride	Ave	0.9799	0.9654		9.85	10.0	-1.5	30.0
tert-Butyl alcohol	Ave	1.350	1.522		11.3	10.0	12.7	30.0
Methyl tert-butyl ether	Ave	2.804	2.658		9.48	10.0	-5.2	30.0
trans-1,2-Dichloroethene	Ave	1.415	1.435		10.1	10.0	1.4	30.0
Acrylonitrile	Ave	0.5360	0.6044		9.66	10.0	12.8	30.0
n-Hexane	Ave	1.567	1.545		9.86	10.0	-1.4	30.0
Vinyl acetate	Ave	2.003	1.801		8.99	10.0	-10.1	30.0
1,1-Dichloroethane	Ave	1.806	1.810		10.0	10.0	0.2	30.0
Ethyl acetate	Ave	0.0953	0.0896		9.40	10.0	-6.0	30.0
cis-1,2-Dichloroethene	Ave	1.158	1.136		9.80	10.0	-2.0	30.0
Methyl Ethyl Ketone	Ave	0.4665	0.4390		9.41	10.0	-5.9	30.0
Tetrahydrofuran	Ave	0.1614	0.1512		9.37	10.0	-6.3	30.0
Chloroform	Ave	2.213	2.191		9.90	10.0	-1.0	30.0
1,1,1-Trichloroethane	Ave	0.4197	0.4146		9.88	10.0	-1.2	30.0
Cyclohexane	Ave	0.2881	0.2864		9.94	10.0	-0.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Lab Sample ID: CCVIS 200-13060/2 Calibration Date: 02/01/2011 11:24

Instrument ID: C.i Calib Start Date: 01/28/2011 14:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/28/2011 19:17

Lab File ID: cjoc002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 097879

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.4246	0.4230		9.96	10.0	-0.4	30.0
2,2,4-Trimethylpentane	Ave	0.8988	0.8845		9.84	10.0	-1.6	30.0
Benzene	Ave	0.6285	0.6036		9.60	10.0	-4.0	30.0
1,2-Dichloroethane	Ave	0.2641	0.2624		9.93	10.0	-0.7	30.0
n-Heptane	Ave	0.3086	0.3006		9.74	10.0	-2.6	30.0
n-Butanol	Ave	0.0638	0.0626		9.81	10.0	-1.9	30.0
Trichloroethene	Ave	0.2786	0.2768		9.93	10.0	-0.6	30.0
1,2-Dichloropropane	Ave	0.2049	0.2040		9.95	10.0	-0.5	30.0
Methyl methacrylate	Ave	0.1738	0.1614		9.29	10.0	-7.1	30.0
1,4-Dioxane	Ave	0.0759	0.0774		10.2	10.0	2.0	30.0
Dibromomethane	Ave	0.2195	0.2225		10.1	10.0	1.4	30.0
Bromodichloromethane	Ave	0.4231	0.4314		10.2	10.0	1.9	30.0
cis-1,3-Dichloropropene	Ave	0.3309	0.3306		9.99	10.0	-0.0	30.0
methyl isobutyl ketone	Ave	0.3131	0.3042		9.71	10.0	-2.9	30.0
n-Octane	Ave	0.4285	0.4170		9.73	10.0	-2.7	30.0
Toluene	Ave	0.5345	0.5342		9.99	10.0	-0.0	30.0
trans-1,3-Dichloropropene	Ave	0.3180	0.3177		9.99	10.0	-0.0	30.0
1,1,2-Trichloroethane	Ave	0.2360	0.2386		10.1	10.0	1.1	30.0
Tetrachloroethene	Ave	0.4210	0.4293		10.2	10.0	2.0	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.3330	0.3405		10.2	10.0	2.3	30.0
Dibromochloromethane	Ave	0.4595	0.4859		10.6	10.0	5.7	30.0
1,2-Dibromoethane	Ave	0.4285	0.4482		10.5	10.0	4.6	30.0
Chlorobenzene	Ave	0.6993	0.7104		10.2	10.0	1.6	30.0
n-Nonane	Ave	0.4495	0.4353		9.68	10.0	-3.2	30.0
Ethylbenzene	Ave	1.062	1.046		9.85	10.0	-1.5	30.0
m,p-Xylene	Ave	0.4233	0.4226		20.0	20.0	-0.2	30.0
Xylene, o-	Ave	0.4251	0.4206		9.89	10.0	-1.1	30.0
Styrene	Ave	0.6132	0.6245		10.2	10.0	1.8	30.0
Bromoform	Ave	0.4100	0.4233		10.3	10.0	3.2	30.0
Cumene	Ave	1.204	1.190		9.88	10.0	-1.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5672	0.5559		9.80	10.0	-2.0	30.0
n-Propylbenzene	Ave	1.330	1.339		10.1	10.0	0.7	30.0
1,2,3-Trichloropropane	Ave	0.4355	0.4267		9.80	10.0	-2.0	30.0
n-Decane	Ave	0.4818	0.4536		9.41	10.0	-5.8	30.0
4-Ethyltoluene	Ave	1.134	1.154		10.2	10.0	1.8	30.0
2-Chlorotoluene	Ave	0.9606	0.9521		9.91	10.0	-0.9	30.0
1,3,5-Trimethylbenzene	Ave	0.9489	0.9568		10.1	10.0	0.8	30.0
Alpha Methyl Styrene	Ave	0.4612	0.4748		10.3	10.0	3.0	30.0
tert-Butylbenzene	Ave	0.9544	0.9492		9.94	10.0	-0.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Lab Sample ID: CCVIS 200-13060/2 Calibration Date: 02/01/2011 11:24

Instrument ID: C.i Calib Start Date: 01/28/2011 14:27

GC Column: RTX-624 ID: 0.32(mm) Calib End Date: 01/28/2011 19:17

Lab File ID: cjoc002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

EPA Sample No.: ccvis 097879

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,4-Trimethylbenzene	Ave	0.9250	0.9339		10.1	10.0	1.0	30.0
sec-Butylbenzene	Ave	1.377	1.376		10.0	10.0	-0.0	30.0
4-Isopropyltoluene	Ave	1.144	1.159		10.1	10.0	1.3	30.0
1,3-Dichlorobenzene	Ave	0.6425	0.6383		9.93	10.0	-0.6	30.0
1,4-Dichlorobenzene	Ave	0.6212	0.6225		10.0	10.0	0.2	30.0
Benzyl chloride	Ave	0.7271	0.6557		9.02	10.0	-9.8	30.0
n-Undecane	Ave	0.4234	0.4114		9.72	10.0	-2.8	30.0
n-Butylbenzene	Ave	0.9214	0.9332		10.1	10.0	1.3	30.0
1,2-Dichlorobenzene	Ave	0.6062	0.6046		9.97	10.0	-0.3	30.0
n-Dodecane	Ave	0.2497	0.2535		10.1	10.0	1.5	30.0
1,2,4-Trichlorobenzene	Ave	0.3345	0.3118		9.32	10.0	-6.8	30.0
Hexachlorobutadiene	Ave	0.3049	0.3049		10.0	10.0	0.0	30.0
Naphthalene	Ave	0.7338	0.6553		8.93	10.0	-10.7	30.0
1,2,3-Trichlorobenzene	Ave	0.2730	0.2670		9.78	10.0	-2.2	30.0

GC/MS INSTRUMENT RUN LOG

Sequence: KLP 01/29/11			Standard Traceability		Instrument Information
Batch ID: ~~CJN~~ CJO	Start Date: 01/28/11	Time: 1119	ISTD Lot #: 84578		Instrument ID: C
Test Method: TO15	End Date: 01/29/11	Time: 1119	CAL STD Lot #: see comments		Instrument: 5973
ICAL Date: 01/28/11			ICV / LCS Lot #: "		Column Type: RTX-624

	Manager	Analyst	Analyst YAP for	Analyst	Analyst
Name/Initial	Kristine Dusablon	Paul Daigle	Sanel Valjevac	Karen L. Perkins / KLP	
Signature	Kristine Dusablon	Paul Daigle PAD		Karen L. Perkins	

Sequence Information								Individual Sample Review			
Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
1119	CJN 001	N/A	BFB	N/A			PAD	N/A	✓	PAD	
1218	002	4635	VIBLK		1	200			✓	KLP	
1339	003	"	"		1				✓		
1427	004	3968			2				✓		091288
1516	005	2572			3				✓		091270
1604	006	2575			4				✓		091269
1652	007	3865			5				✓		097879
1740	008	3155			6				✓		091187
1828	009	3544			7				✓		091186
1917	010	2960			8				✓		091184
2005	011	4635	VIBLK		1			↓	✓		
2053	012	2964	ICV	NA	9	200	SV	✓	↓		~~94787~~ 94787
2141	013	4635	MB	NA	1	200		✓	✓		
2229	014	3968	0.2LCS		2			✓	✓	↓	91288
	~~015~~	~~2572~~	~~0.5LCS~~		~~3~~						~~91270~~ SV 1/28/11
	~~016~~	~~2575~~	~~5.0LCS~~	↓	~~4~~	↓	↓				~~91269~~ ↓
0011	~~014~~ 015	4635	VIBLK	NA	1	200	SV	✓	✓	KLP	
0059	~~015~~ 016	2964	ICV	↓	9	200		✓	✓		~~94787~~ 94787
0147	~~016~~ 017	4635	MB	1	1	200		✓	✓		
0235	~~017~~ 018	3968	0.2LCS	1	2	200		✓	✓		091288
0323	~~018~~ 019	2572	0.5LCS	1	3	↓		✓	✓		091270
0411	~~019~~ 020	2575	5.0LCS	1	4	↓		✓	✓		091269
0459	~~020~~ 021	4487	3356-2	15	10	63		✓	✓		CCF 9.73
0547	~~021~~ 022	4141	↓ -3	8	11	25		✓	✓		
0635	~~022~~ 023	5123	↓ -4	5	12	40		✓	✓		
0723	~~023~~ 024	3865	CCV	1	5	200		✓	✓		097879
0810	~~024~~ 025	↓	CCV	1	5	↓	↓	✓	✓	↓	↓

Legend: C=Complete ▪ R=Reanalyze ▪ ↑ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

GC/MS INSTRUMENT RUN LOG

Sequence				Standard Traceability		Instrument Information
Batch ID: CJOC	Start Date: 2/1/11	Time: 1035		ISTD Lot #:	84528	Instrument ID: C
Test Method: TO15	End Date: 2/2/11	Time: 1035		CAL STD Lot #	97879	Instrument: 5973
ICAL Date: 1/28/11				ICV / LCS Lot #	~~97~~ 94767	Column Type: RTX-624

	Manager	Analyst	Analyst	Analyst	Analyst
Name/Initial					
Signature					

Sequence Information								Individual Sample Review			
Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
1035	CJOC001		BFB	NA			WHD	NA	NA	WHD	
1124	001	3865	CCV		1	200		NA	✓		AG
1229	003	2964	LCS		2			✓	✓		AG
1317	004	4635	MB		3			✓	✓		
1415	005	3415	3624-1	1	4	200		✓	✓		C
1503	006	2706	-2	1	5	1		✓	✓		C
1551	007	3592	-3	10	6	20		✓	✓		C
1638	008	4085	3627-1	1	7	200		✓	✓		C
1726	009	4561	-2		8			✓	✓		C
1814	010	4289	-3		9			✓	✓		C
1903	011	4462	-4		10			✓	✓		C
1951	012	3086	-5		11			✓	✓		C
2039	013	3651	3610-3	10	12	20	WHD	✓	✓		C
2127	014	3369	-5		13			✓	✓		C
2216	015	2784	-7		14			✓	✓		C
2304	016	5063	3554-1	1	15	200		✓	✓↑		exc. 79
2352	017	4817	-2		16			✓	✓↑		exc 110
0039	018	5160	-3		1			✓	✓		C
0127	019	4290	-4		2			✓	✓		C
0215	020	5055	-5		3			✓	✓		C
0304	021	2876	-6		4			✓	✓		C
0352	022	2710	-7		5			✓	✓		C
0440	023	3361	-8		6			✓	✓		C
0528	024	4192	-9		7			✓	✓		C
0620	025	2659	3428-8	0.2	8	1000	SV	✓	✓		
0708	026	3849	3629-8	1.0	9	200		✓	✓		1L can
0755	027	4267	3550-6	1.0	10		SV	✓	✓		

Legend: C=Complete ▪ R=Reanalyze ▪ ↑ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

GC/MS INSTRUMENT RUN LOG

Sequence			Standard Traceability	Instrument Information
Batch ID: CJOC	Start Date: 2/1/11	Time: 1035	ISTD Lot #:	Instrument ID: C
Test Method: TO15	End Date: 2/2/11	Time: 1035	CAL STD Lot #	Instrument: 5973
ICAL Date: 1/28/11			ICV / LCS Lot #	Column Type: RTX-624

	Manager	Analyst	Analyst	Analyst	Analyst
Name/Initial					
Signature					

Sequence Information								Individual Sample Review			
Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
0843	CJOC,028	5063	3554-1	2.5	15	80	WMD	✓	✓	WMD	C "DL"
0931	029	4817	1 -2	5.0	16	40	1	✓	✓	1	C "DL"

2/2/11

Legend: C=Complete ▪ R=Reanalyze ▪ ↑ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Instrument ID: C.i Start Date: 01/28/2011 11:19

Analysis Batch Number: 12941 End Date: 01/29/2011 08:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-12941/1		01/28/2011 11:19	1	cjo001.d	RTX-624 0.32(mm)
VIBLK 200-12941/2		01/28/2011 12:18	1		RTX-624 0.32(mm)
VIBLK 200-12941/3		01/28/2011 13:39	1		RTX-624 0.32(mm)
IC 200-12941/4		01/28/2011 14:27	1	cjo004.d	RTX-624 0.32(mm)
IC 200-12941/5		01/28/2011 15:16	1	cjo005.d	RTX-624 0.32(mm)
IC 200-12941/6		01/28/2011 16:04	1	cjo006.d	RTX-624 0.32(mm)
ICIS 200-12941/7		01/28/2011 16:52	1	cjo007.d	RTX-624 0.32(mm)
IC 200-12941/8		01/28/2011 17:40	1	cjo008.d	RTX-624 0.32(mm)
IC 200-12941/9		01/28/2011 18:28	1	cjo009.d	RTX-624 0.32(mm)
IC 200-12941/10		01/28/2011 19:17	1	cjo010.d	RTX-624 0.32(mm)
VIBLK 200-12941/11		01/28/2011 20:05	1		RTX-624 0.32(mm)
ZZZZZ		01/28/2011 20:53	1		RTX-624 0.32(mm)
ZZZZZ		01/28/2011 21:41	1		RTX-624 0.32(mm)
ZZZZZ		01/28/2011 22:29	1		RTX-624 0.32(mm)
VIBLK 200-12941/15		01/29/2011 00:11	1		RTX-624 0.32(mm)
ICV 200-12941/16		01/29/2011 00:59	1	cjo016.d	RTX-624 0.32(mm)
ZZZZZ		01/29/2011 01:47	1		RTX-624 0.32(mm)
ZZZZZ		01/29/2011 02:35	1		RTX-624 0.32(mm)
ZZZZZ		01/29/2011 03:23	1		RTX-624 0.32(mm)
ZZZZZ		01/29/2011 04:11	1		RTX-624 0.32(mm)
ZZZZZ		01/29/2011 04:59	1		RTX-624 0.32(mm)
ZZZZZ		01/29/2011 05:47	1		RTX-624 0.32(mm)
ZZZZZ		01/29/2011 06:35	1		RTX-624 0.32(mm)
CCVC 200-12941/24		01/29/2011 07:23	1		RTX-624 0.32(mm)
CCVC 200-12941/25		01/29/2011 08:10	1		RTX-624 0.32(mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-3550-1

SDG No.:

Instrument ID: C.i Start Date: 02/01/2011 10:35

Analysis Batch Number: 13060 End Date: 02/02/2011 09:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-13060/1		02/01/2011 10:35	1	cjoc001.d	RTX-624 0.32(mm)
CCVIS 200-13060/2		02/01/2011 11:24	1	cjoc002.d	RTX-624 0.32(mm)
LCS 200-13060/3		02/01/2011 12:29	1	cjoc003.d	RTX-624 0.32(mm)
MB 200-13060/4		02/01/2011 13:17	1	cjoc004.d	RTX-624 0.32(mm)
ZZZZZ		02/01/2011 14:15	1		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 15:03	1		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 15:51	10		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 16:38	1		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 17:26	1		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 18:14	1		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 19:03	1		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 19:51	1		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 20:39	10		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 21:27	10		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 22:16	10		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 23:04	1		RTX-624 0.32(mm)
ZZZZZ		02/01/2011 23:52	1		RTX-624 0.32(mm)
ZZZZZ		02/02/2011 00:39	1		RTX-624 0.32(mm)
ZZZZZ		02/02/2011 01:27	1		RTX-624 0.32(mm)
ZZZZZ		02/02/2011 02:15	1		RTX-624 0.32(mm)
ZZZZZ		02/02/2011 03:04	1		RTX-624 0.32(mm)
ZZZZZ		02/02/2011 03:52	1		RTX-624 0.32(mm)
ZZZZZ		02/02/2011 04:40	1		RTX-624 0.32(mm)
ZZZZZ		02/02/2011 05:28	1		RTX-624 0.32(mm)
ZZZZZ		02/02/2011 06:20	0.2		RTX-624 0.32(mm)
ZZZZZ		02/02/2011 07:08	1		RTX-624 0.32(mm)
200-3550-6	4267	02/02/2011 07:55	1	cjoc027.d	RTX-624 0.32(mm)
ZZZZZ		02/02/2011 08:43	2.5		RTX-624 0.32(mm)
ZZZZZ		02/02/2011 09:31	5		RTX-624 0.32(mm)

TO-15

Shipping and Receiving Documents

From: (315) 657-7421
Christopher Finke
OBrien & Gere
522 Gerelock Rd

Geddes, NY 13209

Origin ID: LKPA

FedEx Express

J11101012220225

Ship Date: 16FEB11
ActWgt: 12.0 LB
CAD: 102146596/INET3130

Dims: 10 X 10 X 14 IN

Delivery Address Bar Code

Ref # 45613
Invoice #
PO #
Dept # engineers

SHIP TO: (802) 660-1990

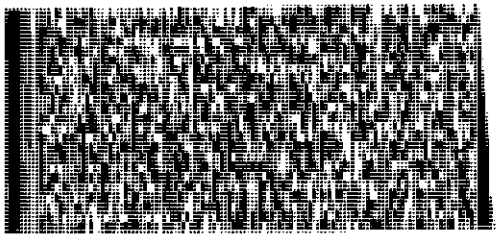
BILL SENDER

Sample Receipt
TestAmerica
30 Community Drive, Suite 11

South Burlington, VT 05403

05403

1 of 2



FedEx TRK# 0201 7944 3199 9172

02 BTVA

THU - 17 FEB PM
THU - 17 FEB AA
PRIORITY OVERNIGHT
DSR
05403
VT-US
BTV

Emp# 66416 17FEB11 LEBA 50CC1/82C2/10BC

From: (315) 657-7421
Christopher Finke
OBrien & Gere
522 Gerelock Rd

Geddes, NY 13209

Origin ID: LKPA

FedEx Express

J11101012220225

Ship Date: 16FEB11
ActWgt: 12.0 LB
CAD: 102146596/INET3130

Dims: 10 X 10 X 14 IN

Delivery Address Bar Code

Ref # 45613
Invoice #
PO #
Dept # engineers

SHIP TO: (802) 660-1990

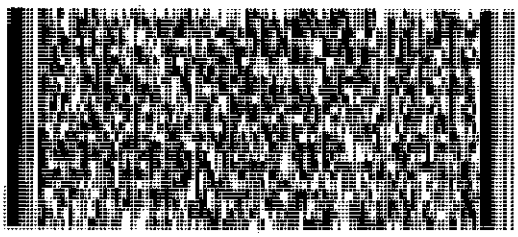
BILL SENDER

Sample Receipt
TestAmerica
30 Community Drive, Suite 11

South Burlington, VT 05403

05403

2 of 2



MPS 026 Mst

FedEx MPS# 0263 7944 3199 9264

02 BTVA

THU - 17 FEB PM
THU - 17 FEB AA
PRIORITY OVERNIGHT
DSR
05403
VT-US
BTV

TestAmerica

30 Community Drive, Suite 11
South Burlington, VT 05043
(P) 802-660-1990 (F) 802-660-1919

Chain Of Custody / Analysis Request

Privileged & Confidential

Site Name: Wastebeds 9-15 / SCA WTP

Location of Site: Camillus and Geddes, New York

Client Contact: (name, co., address)
Al.Labuz@Honeywell.com
Honeywell International
101 Columbia Road
Morristown, NJ 07962

Hardcopy Report To: Paul Schultz
Invoice To: Al Labuz

Sampler: CJF

P.O.# Quote: 20002429-0

Analysis Turnaround Time:
Standard - Y
Rush Charges Authorized for - N
2 weeks -
1 week -
Next Day -

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Field Filtered Sample ?	Units	Preservative	TO-15
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID										
1	SCA-VI-01- 4842		5	SCA- 021511 -01	2/15/11	1255	SG	AIR	REG	1	G N			X
2	SCA-VI-02- 4660		5	SCA- 021511 -02	2/15/11	1335	SG	AIR	REG	1	G N			X
3	SCA-VI-03- 4966		5	SCA- 021511 -03	2/15/11	1411	SG	AIR	REG	1	G N			X
4	SCA-VI-04- 3721		5	SCA- 021511 -04	2/15/11	1442	SG	AIR	REG	1	G N			X
5				SCA- -05										
6				SCA- -06										
7				SCA- -07										
8				SCA- -08										
9				SCA- -09										
10				SCA- -10										
11				SCA- -11										
12				SCA- -12										

Special Instructions:

Relinquished by:	Company: O'Brien & Gere	Received by:	Company: TA	Condition: GOOD	Custody Seals Intact: N/A
	Date/Time: 2/16/11 / 1230		Date/Time: 2/18/11 1140	Cooler Temp.: AMB	
Relinquished by	Company:	Received by	Company:	Condition:	Custody Seals Intact:
	Date/Time:		Date/Time:	Cooler Temp.:	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

TestAmerica
30 Community Drive, Suite 11
South Burlington, VT 05043
(P) 802-660-1990 (F) 802-660-1919

Chain Of Custody / Analysis Request

Page 288 of 289

Privileged & Confidential	
EDD To:	Chuck Sharpe
Sampler:	CJF
P.O.# Quote	20002429-0
Analysis Turnaround Time:	
Standard -	Y
Rush Charges Authorized for -	N
2 weeks -	
1 week -	
Next Day -	

Site Name:	Wastebeds 9-15 / SCA WTP
Location of Site:	Camillus and Geddes, New York

Client Contact: (name, co., address)	
Al.Labuz@Honeywell.com	
Honeywell International	
101 Columbia Road	
Morristown, NJ 07962	
Hardcopy Report To:	Paul Schultz
Invoice To:	Al Labuz

	Sample Identification				Sample Date	Sample Time	Sample Type	Sample Matrix	Sample Purpose	# of Cont.	Field Filtered Sample ?	Preservative	TO-15
	Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID							Units		
1	SCA-VI-01- 4842		5	SCA- 021511 -01	2/15/11	1255	SG	AIR	REG	1	G N		X
2	SCA-VI-02- 4660		5	SCA- 021511 -02	2/15/11	1335	SG	AIR	REG	1	G N		X
3	SCA-VI-03- 4966		5	SCA- 021511 -03	2/15/11	1411	SG	AIR	REG	1	G N		X
4	SCA-VI-04- 3721		5	SCA- 021511 -04	2/15/11	1442	SG	AIR	REG	1	G N		X
5				SCA- -05									
6				SCA- -06									
7				SCA- -07									
8				SCA- -08									
9				SCA- -09									
10				SCA- -10									
11				SCA- -11									
12				SCA- -12									

Special Instructions:

Relinquished by	Company	O'Brien & Gere	Received by	Company	TA	Condition	GOOD
	Date/Time	2/16/11 1230		Date/Time	2/18 11 1140	Cooler Temp.	AIR
Relinquished by	Company		Received by	Company		Condition	
	Date/Time			Date/Time		Cooler Temp.	

Custody Seals Intact	N/A
Custody Seals Intact	

Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn. Acetate]; [6 = MeOH]; [7 = NaHSO4]; 8 = Other (specify):

Login Sample Receipt Check List

Client: O'Brien & Gere Technical Services Inc

Job Number: 200-3885-1
SDG Number: 200-3885

Login Number: 3885
Creator: Marion, Greg T
List Number: 1

List Source: TestAmerica Burlington

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Appendices CD

Appendix A – Records Search Report

Appendix B – Ninemile Creek Tracer Test Field Logs

Appendix C – Boring Logs

Appendix D – Well Development Logs

Appendix E – Hydraulic Conductivity Logs

Appendix F – Groundwater Sampling Logs

Appendix G – Chains of Custody

Appendix I – Phase 1 SAA Scope of Work

Appendix J – Geotechnical Stiff Diagrams

Appendix M – SCA Water Treatment Plant Soil Vapor Technical Memorandum

Attachments

Attachment 1

Measurement of Discharge Using Tracers

(Kilpatrick and Cobb, 1985)

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MEASUREMENT OF DISCHARGE USING TRACERS

Book 3
CHAPTER A16



Techniques of Water-Resources Investigations
of the United States Geological Survey

Chapter A16

MEASUREMENT OF DISCHARGE USING TRACERS

By Frederick A. Kilpatrick and Ernest D. Cobb

Book 3

APPLICATIONS OF HYDRAULICS

DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

U.S. GEOLOGICAL SURVEY

Dallas L. Peck, Director

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PREFACE

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CONTENTS

	Page
Preface	iii
Unit conversion	ix
Symbols, definitions, and units	ix
Equations	x
Abstract	1
Introduction	1
Theory	2
Slug injection	2
Constant-rate injection	4
Slug-injection method	6
Overview	6
Preparation	6
Reach selection	6
Estimation of needed tracer amounts	8
Preparation of injection solutions	8
Field equipment	9
Fluorometer calibration	9
Performance	13
Selection of measurement reach (1)	13
Background samples (2)	13
Dye injection (3)	13
Sampling the dye cloud (4)	13
Fluorometric analysis (5)	13
Data analysis and computation of discharge (6 and 7)	15
Alternative method of analysis and computation	15
Alternative method of measurement	16
Constant-rate injection method	16
Overview	16
Preparation	17
Selection of dye concentrations and injection rates	17
Preparation of injection solutions	18
Bulk solutions	18
Prepackaged dye quantities	19
Constant-rate injection equipment	20
Pumps	20
Constant-rate injection method—Continued	
Constant-rate injection equipment—Continued	
Mariotte vessels	20
Chemical-feed devices	23
Performance	23
Selection of measurement reach (1)	24
Background samples (2)	24
Dye preparation, injection, and sampling (3)	24
Measurement of injection rate (4)	24
Samping the plateau (5)	24
Fluorometric analysis (6)	26
Computation of discharge (7)	26
Discussion	26
Measurements with less than optimum mixing	27
The use of relative concentrations	28
Relative concentrations based on stock solutions	28
Relative concentrations based on injected solutions	30
Mixing length	34
Injection schemes	36
Dye losses	37
Special measurements	37
Beneath ice	37
Site preparations	38
Tracer preparation and injection	38
Sampling	40
Analysis	40
Canals and pipes	40
Measurement during unsteady flow	40
Concepts	40
Results	43
Automatic dilution gaging	43
Injection system	44
Sample recovery system	44
Velocity area measurements	46
Selected bibliography	46
Appendix A - Computation of percentage mixing	48
Appendix B - Forms and sample computations	49

FIGURES

		Page
1–4.	Graphs showing	
	1. Typical response curves observed laterally and at different distances downstream from a slug injection of a tracer in the center of a stream	3
	2. Superposition of slug-response curves to simulate constant-injection buildup to a plateau at one location in a stream section	4
	3. Time-concentration curves for slug and simulated constant injections observed at three points laterally across the channel at three different distances downstream from the injection point	5
	4. Quantity of rhodamine WT 20-percent dye required for slug injection to produce a peak concentration of 1 microgram per liter at a distance downstream, L, at a mean velocity, v, and with a discharge, Q, in the reach	8
5, 6.	Photographs of	
	5. Dye sampler constructed from a section of angle iron and a broom clamp	9
	6. Sampling a turbulent stream by tossing a dye sampler into the flow	10

Page

7. Graph showing typical calibration curves for a fluorometer ---- 10
8. Schematic diagram depicting the performance of slug-injection type dye-dilution discharge measurement ---- 14
9. Graph used for estimating rates of dye injections for different stream discharges and concentrations of injection solutions ---- 17
10–13. Photographs of
10. Pump and graduated cylinder used for constant-rate dye injection ---- 20
11. Backpack dye-injection apparatus in use ---- 21
12. Backpack dye-injection apparatus ready for transport ---- 21
13. Dye injection using a 5-gal can mariotte vessel positioned over the stream by a light cable and trolley system ---- 21
14. Design drawing of mariotte-type, constant-rate injection apparatus ---- 22
15, 16. Photographs of
15. Pressurized chemical-feed tank being used to inject dye into a pipeline. A laboratory balance measures the injection rate ---- 23
16. Single-point, midchannel dye injection from a chemical-feed tank ---- 23
17. Schematic diagram of the performance of constant-rate dye-dilution discharge measurement ---- 25
18. Example of flow-weighting concentration data where mixing is poor ---- 27
19, 20. Conceptual diagrams and examples of computations using relative concentrations and dilution factors originating with
19. The manufacturer's stock dye solution ---- 29
20. The injected solution ---- 31
21–23. Photographs of
21. Multiple dye injection in the approach to a Parshall flume ---- 35
22. Tubing used in the fabrication of a one-to-three manifold for multiple injection of dye ---- 36
23. Fabricated manifold for three-point multiple dye injection ---- 36
24. Illustration of dye-dilution discharge measurement under ice cover ---- 38
25, 26. Photographs of
25. Dye injection under ice cover, using a chemical-feed tank ---- 39
26. Sampling under ice cover as part of a dye-dilution discharge measurement ---- 39
27, 28. Graphs showing
27. Proportions of methanol alcohol and water-dye solution needed to prevent freezing of mixtures at selected temperatures ---- 39
28. Rapid measurement of discharge in a lined canal by dye dilution, Charles Hanson Canal, Colorado ---- 41
29, 30. Conceptual diagrams of
29. Constant-rate injection into unsteady flow ---- 42
30. Automatic injection and sampling systems for dye-dilution measurement of unsteady flow ---- 45
31. Form for recording, analyzing, and computing constant-rate dye-dilution discharge measurement using actual concentrations ---- 49
32. Completed form for recording, analyzing, and computing constant-rate dye-dilution discharge measurement using actual concentrations ---- 50
33. Form for recording, analyzing, and computing constant-rate dye-dilution discharge measurement using fluorometer dial readings and dilution factors ---- 51
34. Completed form for recording, analyzing, and computing constant-rate dye-dilution discharge measurement using fluorometer dial readings and dilution factors ---- 52

TABLES

Page

1. Values of the transverse mixing coefficient, E_z, for selected average flow depths and slopes ---- 7
2A. Convenient three-step serial dilutions for preparation of a working solution ---- 11
2B. Convenient fourth-step dilutions for preparation of dye standards using a 100-μg/L working solution ---- 12
3. Convenient volumes of water and dye to mix for the preparation of bulk solutions of selected dye concentrations ---- 18
4. Prepackaged dye quantities to produce selected concentrations of injection solutions ---- 19
5. Convenient three-step serial-dilution combinations for the preparation of selected standards for selected dye-injection solutions; prepackaged solutions ---- 32
6. Convenient three-step serial-dilution combinations for the preparation of selected standards for selected dye-injection solutions; bulk solutions ---- 33
7. Values for coefficient, K, for different degrees of mixing and numbers and locations of injection points ---- 35

UNIT CONVERSION

Multiply inch-pound unit	*By*	*To obtain SI unit*
cubic foot (ft^3)	28.320	cubic meter (m^3)
cubic foot per second (ft^3/s)	0.028	cubic meter per second (m^3/s)
degrees Fahrenheit (°F) minus 32°	0.556	degrees Celsius (°C)
foot (ft)	3.048	meter (m)
foot per second (ft/s)	0.305	meter per second (m/s)
gallon (gal)	3.785	liter (L)
gallon (gal)	3785	milliliter (mL)
inch (in)	25.4	millimeter (mm)
mile (mi)	1.609	kilometer (km)
pound (lb)	453.6	gram (g)
square foot per second (ft^2/s)	9.290	square meter per second (m^2/s)

SYMBOLS, DEFINITIONS, AND UNITS

Symbol	*Definition*	*Unit*
A_c	Area under the time-concentration curve	(µg/L)(min)
B	Average width of stream	ft
c	Plateau concentration	µg/L
c_i	The concentrations at points i across a section	µg/L
$\bar{c}$	Weighted or average plateau concentration	µg/L
C	Concentration of injected solution	µg/L
C_a	Average concentration for an entire tracer cloud when sampled at a constant rate over a time period, ΔT_c	µg/L
C_i	Initial concentration	µg/L
C_n	New concentration after a dilution	µg/L
C_p	Peak concentration	µg/L
C_s	Concentration of stock solution, generally as obtained from the manufacturer	µg/L
$C_{1,2,3,4}$	Concentrations resulting from serial dilutions 1 through 2, 3, and 4 dilution steps	µg/L
C_f	Final standard concentration	µg/L
d	Mean depth of stream	ft
D	Diameter of orifice	in
D_T	Total dilution factor; the product of a series of dilutions, $D_1 \times D_2 \times D_3$, and so forth	- - -
$D_{1,2,3,4}$	Dilutions for each step, 1, 2, 3, and 4 of a serial dilution, respectively	- - -
D_C	Dilution factor to reduce C_s to C	- - -
E_z	Transverse mixing coefficient	ft^2/s
g	Acceleration of gravity	ft/s^2
h	Head on orifice	in
K	Mixing length coefficient	ft^2
k	Fluorometer scale factor	- - -
L	Length of measurement reach	ft
L_m	Mixing length	ft
L_o	Channel length required for optimum mixing; usually corresponds to about 95 percent mixing	ft
M	Mass of tracer injected	g
$M_{1,2 \ldots n}$	Series of slug injections of equal mass	g
P_m	Percentage of mixing	- - -
q	Rate of constant tracer injection	mL/min
Q	Total stream discharge	ft^3/s
$Q_{a,b,c \ldots n}$	Portions of the total stream discharge, Q	ft^3/s
Q_i	Discharges applicable to the points, i	ft^3/s
r	Fluorometer dial reading for individual stream sample	- - -
$\bar{r}$	Weighted or average fluorometer dial reading for stream samples	- - -

R	Fluorometer dial reading for a standard prepared from the injection solution or prepared from stock solution used in preparing the injection solution	- - -
s	Water-surface slope	ft/ft
S_G	Specific gravity	- - -
ΔT_c	Period during which dye cloud is sampled at a constant rate	min
t_c	Lapsed time between centroids of time concentration curves	s
T_d	Duration in time for tracer cloud to pass any one point in section	min
T_D	Duration in time required for entire tracer cloud to pass a section	min
T_e	Elapsed time to leading edge of dye cloud	min
T_f	Elapsed time to trailing edge of dye cloud	min
T_p	Elapsed time to maximum concentration of dye cloud	min
v	Mean stream velocity	ft/s
v_*	Shear velocity	ft/s
V_d	Volume of dye solution	mL
V_I	Volume of dye solution injected into stream	mL
V_s	Volume of stock dye solution	L
V_w	Volume of diluent, usually distilled water	mL
V	Volume of conduit	ft^3
W_d	Weight of dye	g
W_s	Weight of stock dye solution	g

EQUATIONS

For Slug-Injection Method

(1) $Q=\frac{M}{A_c}$ (without unit conversion factor)

(3) $Q=5.89\times10^{-7}\frac{S_G V_I C}{A_c}$

(8) $Q=5.89\times10^{-7}\frac{S_G V_I C}{\Delta T_c C_a}$

For Constant-Rate Injection Method

(2) $qC=Qc$ (without unit conversion factor)

(9) $Q=5.89\times10^{-7}\,q\frac{C}{\bar{c}}$

(10) $Q=5.89\times10^{-7}\,q\left[\frac{R}{\bar{r}}\times\frac{D_C}{D_T}\right]$

(11) $Q=5.89\times10^{-7}\,q\left[\frac{R}{\bar{r}}\times\frac{1}{S_G D_T}\right]$

For Mixing Length Determinations

(4) $L_o=0.1\frac{vB^2}{E_z}$

(5) $L_o=0.088\frac{vB^2}{d^{3/2}s^{1/2}}$

(12) $L_m=K\frac{vB^2}{E_z}$

For Volume of Rhodamine WT Dye

(6) $V_s=3.79\times10^{-5}\frac{QL}{v}C_p$

For Serial Dilution Determinations

(7) $C_n=C_i\left[\frac{W_d}{V_w+V_d}\right]=C_i S_G\left[\frac{V_d}{V_w+V_d}\right]$

For Computing Percentage Mixing

(14) $P_m=100-\frac{50}{\bar{c}Q}\sum_{i=1}^{N}|c_i-\bar{c}|\,Q_i$

For Tracer Velocity Discharge Measurements

(13) $Q=\frac{V}{t_c}$

MEASUREMENT OF DISCHARGE USING TRACERS

By Frederick A. Kilpatrick and Ernest D. Cobb

Abstract

The development of fluorescent dyes and fluorometers that can measure these dyes at very low concentrations has made dye-dilution methods practical for measuring discharge. These methods are particularly useful for determining discharge under certain flow conditions that are unfavorable for current meter measurements. These include small streams, canals, and pipes where

1. Turbulence is excessive for current-meter measurement but conducive to good mixing.
2. Moving rocks and debris may damage instruments placed in the flow.
3. Cross-sectional areas or velocities are indeterminate or changing.
4. The flow is unsteady, such as the flow that exists with storm-runoff events on small streams and urban storm-sewer systems.
5. The flow is physically inaccessible or unsafe.

From a practical standpoint, such methods are limited primarily to small streams, because of the excessively long channel-mixing lengths required for larger streams. Very good accuracy can be obtained provided that

1. Adequate mixing length and time are allowed.
2. Careful field and laboratory techniques are used.
3. Dye losses are not significant.

This manual describes the slug-injection and constant-rate injection methods of performing tracer-dilution measurements. Emphasis is on the use of fluorescent dyes as tracers and the equipment, field methods, and laboratory procedures for performing such measurements. The tracer-velocity method is also briefly discussed.

Introduction

Tracer gaging may be divided into two categories: the tracer-dilution method and the tracer-velocity method. The latter is commonly known as the salt-velocity method (Aastad and Reinhardt, 1954), although any tracer may be used. It has the advantage of simple injection, requires a relatively small amount of tracer, and is not critically dependent on the conservativeness of the tracer. Its chief disadvantages are the requirements that the channel reach be uniform and that the channel-flow geometry be defined exactly; it also entails extensive sampling. This method, although not frequently used, can be very accurate in canals and pipes where the cross-sectional area is uniform and accurately measurable. It is discussed in a later section.

Measurement of stream discharge by dilution methods depends on the determination of the degree of dilution of an added tracer solution by the flowing water. Dilution methods of measuring discharge have been known since at least 1863 (Spencer and Tudhope, 1958, p. 129). Until recently, chemical salts (Ostrem, 1964) were generally used as the tracer injected into the stream. Radioactive tracers have been used successfully, but handling problems have limited widespread use (Schuster and Hansen, 1968). The development of stable fluorescent dyes and fluorometers that can measure them at very low concentrations has greatly enhanced the use of dilution methods (Morgan and others, 1977, and Kilpatrick, 1968, 1969). Hence, this manual addresses the use of fluorescent dyes as the tracer to be used, although the principles discussed apply to any tracer.

Dilution methods are useful under the following flow conditions:

1. Where it is difficult or impossible to use a current meter due to high velocities, turbulence, or debris.
2. Where, for physical reasons, the flow is inaccessible to a current meter or other measuring device.
3. Where, for some conditions, the rate of change of flow is such that the time to make a current-meter measurement is excessive.
4. Where the cross-sectional area cannot be accurately measured as part of the discharge measurement or is changing during the measurement.

Typical examples of situations where the dilution methods might be used are turbulent mountain streams, pipes, canals, sewers, ice-covered streams, and sand-channel streams. The purpose of this manual is to describe the dyes, equipment, and methods used to measure discharge by the dilution method using both the constant-rate injection and the slug-injection technique.

Note that this manual goes beyond what is required to make a simple dilution-type discharge measurement and that the user need read through only the sections on Theory, Slug-Injection Method, and Constant-Rate Injection Method before attempting such measurements. Also bear in mind that while many of the same techniques as those used in time-of-travel studies are used in making dye-dilution discharge measurements, a higher level of accuracy is desired, and therefore greater care in performance is required. The user is urged to perform a dye-dilution discharge measurement on an ordinary small stream before attempting more difficult measurements. The stream chosen for a trial should be one where a good current-meter or weir measurement can be made concurrently to provide verification.

The fluorometric techniques described in this report are oriented toward use of the Turner Model 111 and Turner Designs Model 10 fluorometers because those instruments are in general use in the United States Geological Survey; however, other brands of fluorometers may be used. Additional information about tracers and equipment is given in the manual by Wilson and others (1984). The methods and techniques presented in this manual are based on experimental studies by F. A. Kilpatrick and E. D. Cobb, and by B. J. Frederick, J. F. Wilson, Jr., J. F. Bailey, and numerous others.

Theory

Measurement of the degree of dilution of a known quantity of tracer after its mixing in a flowing stream of water is the basis of dilution gaging. There are two main approaches: (1) the slug injection of a known amount of tracer into the flow, which requires that the dilution of the tracer be accounted for by the complete measurement of its mass downstream; for this reason, it is sometimes referred to as the total recovery method; and (2) the constant-rate injection of a tracer solution into the flow, which requires only the measurement of the plateau level of concentration that results downstream after equilibrium has been reached. The principles are simple, yet their successful application in streams, canals, pipes, and elsewhere requires a good understanding of the dispersion process. No elaborate theoretical treatment is used in explaining these processes; however, the reader is urged to heed the following principles, for they can eliminate many of the problems others have had in performing such measurements and are helpful in understanding the application of tracers in hydrologic studies in general.

Slug injection

The slug injection of a tracer into a flowing stream is the simplest of all methods, from the standpoint of equipment needs. Where radioactive tracers are employed, handling problems make slug injection virtually the only feasible method. Figure 1 shows the resulting response curves at different distances downstream that may result from a single midchannel slug injection of tracer. These response curves are time-concentration curves familiar to many who have been involved in time-of-travel studies; however, stream reaches used for a dilution-discharge measurement are relatively short, and the duration of passage of the entire cloud, T_D, rarely exceeds 1 hour. Large distances such as those in time-of-travel studies may result in significant loss of tracer and, hence, inaccurate measurements of discharge. Significant losses of tracer do not ordinarily occur in the short stream reaches used for dilution-discharge measurements, although the possibility must always be kept in mind.

The discharge as measured by the slug-injection tracer-dilution technique is

$$Q=\frac{M}{A_c}\,^{1} \qquad (1)$$

where Q is the volume rate of flow of the stream;
M is the mass of tracer injected; and
A_c is the area under the response curve obtained after adequate mixing of the tracer in the flow.

[1]For clarity, units are ignored here; a constant is required to yield a dimensionally correct equation for the units used in this report.

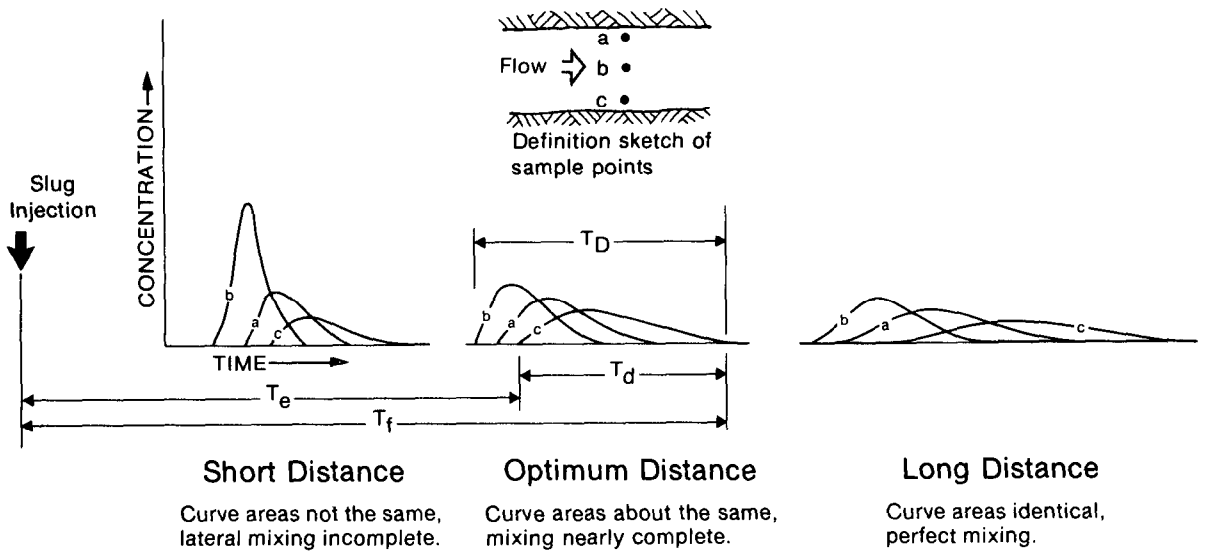


Figure 1.—Typical response curves observed laterally and at different distances downstream from a slug injection of a tracer in the center of a stream.

Most important, therefore, is a measurement of the response curve far enough downstream that mixing is almost complete in a cross section.

At short distances downstream from a slug injection, the tracer is not fully mixed in the total flow of the stream, being more in the center than along the banks (see fig. 1). Furthermore, the response curve measured in the center may be much shorter in duration, T_d, than for those along the banks. This is a common occurrence, because flow along the banks is usually slower and the channel banks tend to slow and elongate the tracer cloud. At such a short distance, an accurate measurement of discharge by dilution cannot be made by ordinary methods. When uniform mixing is reached, the areas under the time-concentration curves are essentially the same regardless of shape; at too short a distance, they are not.

From a practical standpoint, complete mixing does not need to be attained. A good dilution-discharge measurement can be made at what is defined here as an optimum distance, L_o, downstream.[2] The distance is optimum because T_D is not too long, and thus sampling of the complete response curves at several points laterally across a section is feasible. Note that the peaks of the response curves are not the same, and that their lengths, or durations, and arrival and departure times are different. Nevertheless, the areas under the individual response curves are nearly the same, which indicates good mixing and allows a good dilution-discharge measurement.

If the response to the tracer slug is measured farther downstream, mixing will be nearly perfect, and the individual time-concentration curves will be nearly identical in area; therefore, a very accurate measurement of discharge may be obtained. That is true, however, only if sampling has been performed for a sufficient time, particularly of the drawn-out tails of the clouds, and if loss of tracer has not occurred because of excessive time of exposure. Frequently, failure to measure the low-level concentrations of the trailing edge of the tracer is misinterpreted as a loss of tracer. It is not a real loss, but merely a sampling or measurement failure.

The foregoing discussion shows that predicting the length of channel for optimum mixing is not a simple task. Formulas to aid in estimating mixing lengths and approaches to reducing the effective reach lengths needed are discussed subsequently.

[2]The optimum distance is usually where mixing is about 95 percent complete. The concept of degree of mixing and how it is computed is discussed in appendix A.

Constant-rate injection

A continuous, constant-rate injection of tracer may be simulated from the response curve of a slug injection using the superposition principle (Yotsukura and Kilpatrick, 1973). This can best be understood by using any one of the slug-response curves in figure 1 to simulate the response of a continuous injection at the same location. In figure 2, the solid response curve is due to the slug injection, M_1; T_e and T_f are the elapsed times to the arrival of the leading edge and trailing edge of the response curve to M_1. Assuming the streamflow is steady, continuing to inject a series of tracer slugs of equal amounts, M_2, M_3, . . . M_n, at uniform time intervals (a constant-rate injection), would yield a series of identical response curves. Of course, if the same soluble tracer were continuously injected, the individual response curves would not be distinguishable and there would be an ever-increasing buildup of concentration with time until T_f was reached. In effect, the superimposed slug-response curves are being added as they overlap. At time T_f, corresponding to when the trailing edge of the first slug would have passed the point of observation, a plateau of constant concentration is first reached at that point in the channel. At that time, for a constant injection, an equilibrium condition is reached. Continued injection after T_f would result in a plateau of constant concentration at that point, so long as the stream discharge and rate of tracer injection did not vary.

The results illustrated in figure 2 are shown also in figure 3 for the same three distances and the three lateral locations used in the example of figure 1. The same slug-response curves used in figure 1 are used in figure 3 to simulate the responses to a continuous injection of tracer as obtained by superimposing the uniformly repeated slug-response curves.

Figure 3 shows that for the short distance, plateaus of different concentrations are obtained laterally. The degree of mixing is poor and identical for the continuous injection and the slug injection.

At the optimum distance, the plateaus laterally tend to converge to the same concentration and reflect dilution by the stream discharge, but their concentrations are not identical; nevertheless, mixing is sufficient to produce a good tracer dilution-discharge measurement. Note that tracer would have to be injected continuously for at least a time, T_D, to first reach a completely stabilized plateau for all points across the channel at that distance. The minimum period corresponds to the difference in time for the earliest arriving tracer (center or point b) and the latest departing tracer (side or point C). Of course, it would be necessary to inject tracer for a time slightly greater than T_D

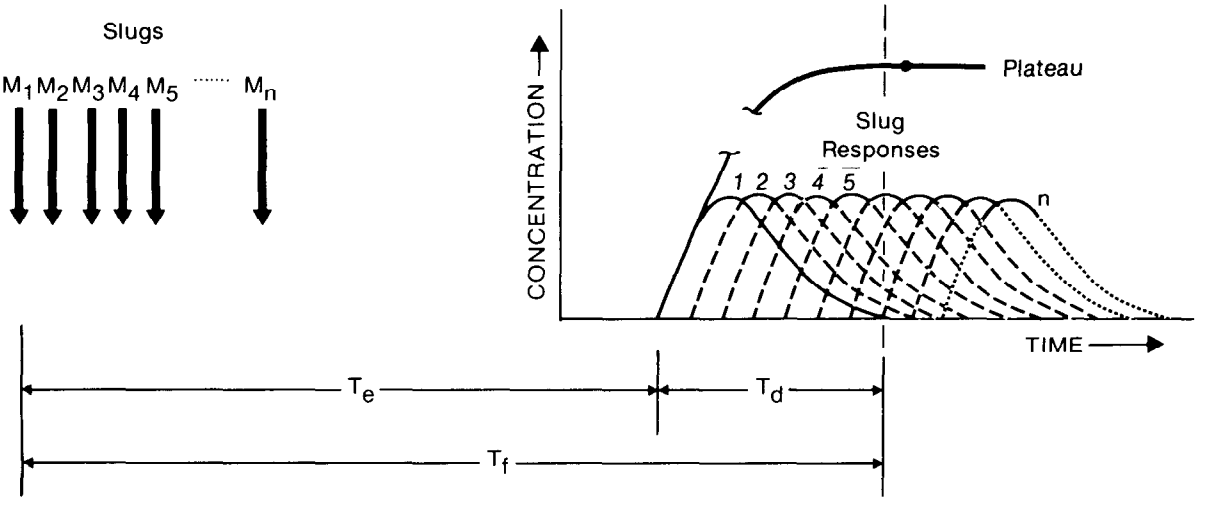
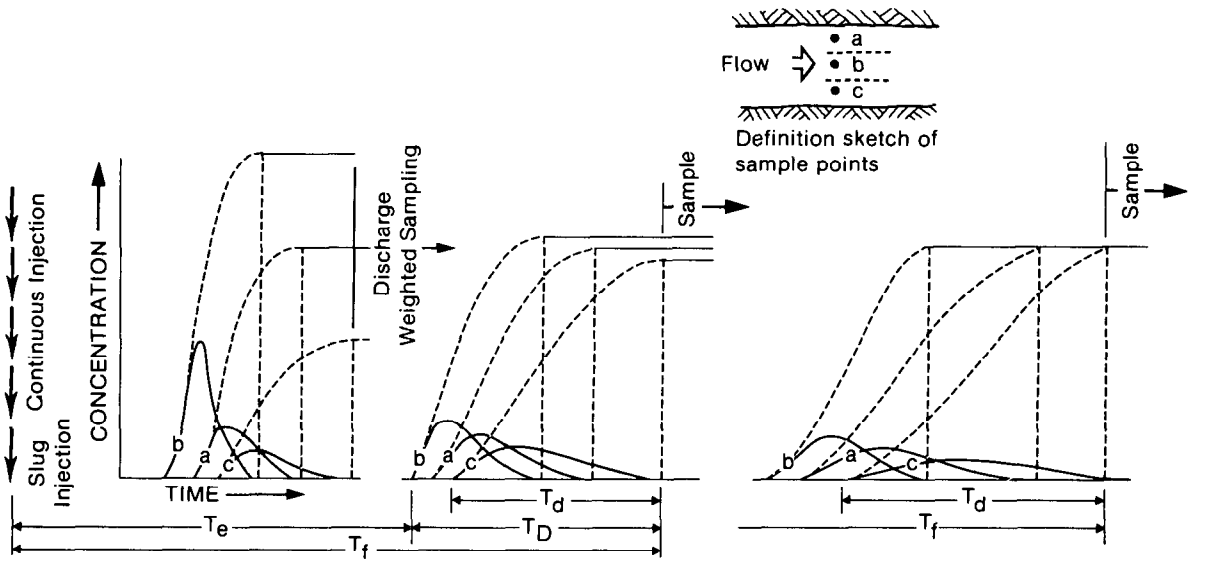


Figure 2.—Superposition of slug-response curves to simulate constant-injection buildup to a plateau at one location in a stream section.



Short Distance

1. Curve areas not the same, lateral mixing incomplete.
2. Rapid buildup to plateaus of different levels.
3. Dilution-discharge measurement can be obtained by using discharge proportional sampling, or by discharge weighting the concentration data.

Optimum Distance

1. Curve areas about the same, mixing nearly complete.
2. Fast buildup to plateaus nearly the same in concentration, mixing adequate.
3. Good dilution discharge measurement can be made with moderate length injection, T_D.

Long Distance

1. Curve areas identical, perfect mixing.
2. Slow buildup to plateau concentrations exactly the same but only after long period of injection.
3. Excellent dilution discharge measurement can be made if injection is long enough to allow sampling after slowest point in section has reached an equilibrium plateau.

GENERAL: Minimum length of constant injection required, T_D, is equal to longest time slug dye cloud would be present at any location in the stream. Danger is in not injecting long enough and not sampling late enough; samples taken prior to T_f would give impression mixing was poor and (or) yield data suggesting, incorrectly, a tracer loss.

Figure 3.—Time-concentration curves for slug and simulated constant injections observed at three points laterally across the channel at three different distances downstream from the injection point.

(shown only for the optimum distance) to allow for sampling the fully developed plateau. At a long distance (fig. 3), the resulting plateau concentrations are virtually identical if the constant injection is made over sufficient time and if sufficient time is allowed for buildup across the entire channel before sampling. Depending on the nature of the channel and the mixing distance selected, the injection duration and the lapsed time necessary before sampling the correct plateau concentration may be greater than anticipated.

Unlike the slug-injection method, the entire response curves need not be measured, only the plateau concentrations. Once equilibrium plateau conditions have been reached, the conservation-of-mass principle and the continuity equation

$$qC = Qc \quad [3] \qquad (2)$$

[3]For clarity, units are ignored here; a constant is required to yield a dimensionally correct equation for the units used in this report.

apply, whereby the amount of tracer being injected, qC, equals that passing the sampling section, Qc,

where q is the rate of tracer injection and is assumed to be very small relative to Q;
C is the concentration of the tracer being injected; and
c is the resulting plateau concentration after dilution by Q.

Certain conclusions can be drawn from examination of figures 1, 2, and 3 for a given stream and flow:

1. Sampling of the response curves from a slug injection must be for a period of time, T_D, and until time T_f; T_f is the earliest time at which the plateau resulting from a constant injection can be sampled. Thus, the effective elapsed time required to make a discharge measurement is essentially the same by either method.
2. The duration of a continuous injection needed to reach equilibrium plateau concentrations can be determined accurately by examination of the slug-response curves for a given site. The injection time must be at least equal to the time at which tracer is last present in the stream minus the earliest time of arrival of the leading edge of the tracer for that section, T_D. For practical purposes, the injection time must be slightly longer than T_D to allow for sampling.
3. For the constant-injection method, plateaus develop earlier in the main flow than they do close to the streambanks, where the flow is slower.

Slug-Injection Method

Overview

The slug-injection method is sometimes preferred because of the simplicity of injection and because less tracer is needed. Equation 1 may be written as

$$Q = 5.89 \times 10^{-7} \frac{S_G V_I C}{A_c} \qquad (3)$$

where Q is the discharge of the stream, in cubic feet per second;
V_I is the volume of concentrated dye solution injected into the stream, in milliliters;
C is the concentration of the dye solution injected into the stream, in micrograms per liter;
A_c is the area under the time-concentration curve, in units of minutes time micrograms per liter; and
S_G is the specific gravity of the injected solution.

Successful application of equation 3 requires that the mass of tracer injected be fully recovered at the sampling point. This recovery consists in multiplying the area of the response curve or time-concentration curve, A_c, by the discharge, Q. Thus it is vital that A_c accurately represent the dilution of the injected tracer. To recover the injected tracer totally, therefore, requires complete measurement of the time-concentration curve at each of several locations laterally, such as at a, b, and c as depicted in figure 1. The necessity for extensive sampling is the reason this method has found less favor in the United States than the constant-injection method. Nevertheless, the method may be used where a constant-rate injection apparatus is not available or its use is not feasible. Modification of the method to decrease the number of samples required can make it more attractive. Such modification is discussed after presentation of the basic method.

Preparation

Reach selection

The reach where the discharge measurement is to be made should be close to the stream-gaging station or other point of interest. There should not be inflow or outflow within the measurement reach or between the measurement reach and the gage.

The measurement reach should contain a minimum of dead-water areas. Such areas can greatly extend the time required for the tracer to pass a downstream section and, hence, the measurement time. Also, extensive deadwater

Table 1.—Values of the transverse mixing coefficient, E_z, for selected average flow depths and slopes.

[Note: $E_z=1.13d^{3/2}s^{1/2}$]

Depth, d (ft)	Slope, s, (ft/ft)				
	0.001	0.005	0.010	0.050	0.100
1.0	0.04	0.08	0.1	0.3	0.4
2.0	.1	.2	.3	.7	1.0
3.0	.2	.4	.6	1.3	1.9
4.0	.3	.6	.9	2.0	2.9
5.0	.4	.9	1.3	2.8	4.0

areas will elongate the trailing edge of the tracer cloud and result in long-duration, low-concentration tails that it is difficult to define accurately.

Rapid lateral (cross-channel) mixing is desired in the stream reach to reduce measurement time and length of reach. A stream with good mixing characteristics will be narrow and deep. Mixing will usually take place rapidly in pool-and-riffle streams--the pools generally being more effective for lateral mixing than the riffles. The volume of the pools should not be too great relative to the volume of flow; otherwise it will take excessive time for the tracer to move through them. Contractions and bends within the reach may help speed up the mixing process. Lateral mixing in shallow whitewater streams is poor, and its mixing effectiveness is apt to be deceiving; depth is needed for good lateral mixing. For the same reason, braided reaches should be avoided. Small islands generally will not significantly slow the mixing process, provided that flow characteristics are similar on both sides of an island.

The optimum distance required for adequate lateral mixing of a tracer injected in the middle of the streamflow may be estimated by the following equation (adapted from Yotsukura and Cobb, 1972, eq. 29, and Fischer and others, 1979, eqs. 5 and 10):

$$L_o=0.1\frac{vB^2}{E_z} \qquad (4)$$

where E_z is the transverse mixing coefficient (table 1) in feet squared per second, given by

$$E_z=0.2\,d\,v_*$$

where v_* is the shear velocity, in feet per second, given by $v_*=(g\,d\,s)^{1/2}$;
L_o is the distance required for optimum mixing, in feet;
d is the mean depth of the stream, in feet;
g is the acceleration of gravity (32.17 ft/s^2);
s is the water-surface slope, in feet per foot;
v is the mean stream velocity, in feet per second; and
B is the average stream width, in feet.

The transverse mixing coefficient may therefore be expressed as

$$E_z=1.13d^{3/2}s^{1/2}$$

Hence, the optimum mixing length may also be expressed as

$$L_o=0.088\frac{vB^2}{d^{3/2}s^{1/2}}\,. \qquad (5)$$

Table 1 provides values of E_z for selected depths and slopes to aid in estimating the optimum mixing length from equation 4.

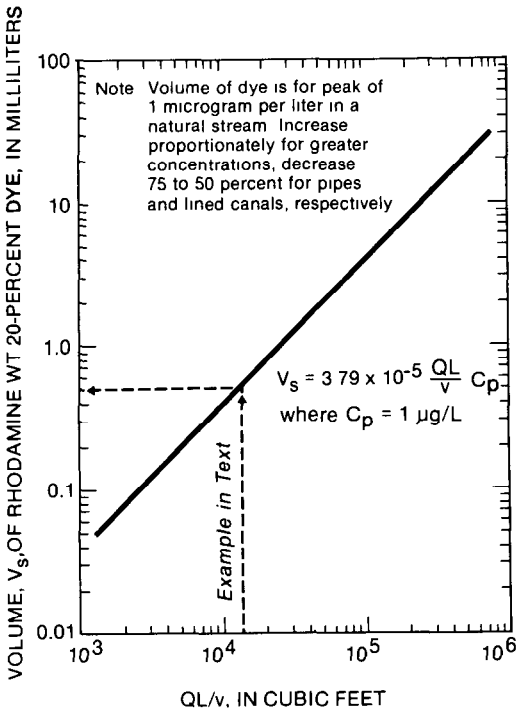


Figure 4.—Quantity of rhodamine WT 20-percent dye required for slug injection to produce a peak concentration of 1 microgram per liter at a distance downstream, L, at a mean velocity, v, and with a discharge, Q, in the reach.

Estimation of needed tracer amounts

The volume of tracer required for a slug-injection discharge measurement is a function of the stream discharge, the measurement-reach length, the stream velocity, and the peak concentration to be achieved at the sampling site. Henceforth, this manual will describe the use of rhodamine WT and pontacyl pink dye tracers, particularly the former. The following easy-to-use empirical equation for estimating the dosage requirements of rhodamine WT 20-percent dye for natural streams was developed by Kilpatrick (1970):

$$V_s = 3.79 \times 10^{-5} \frac{QL}{v} C_p \qquad (6)$$

where C_p is the peak concentration at the sampling site, in micrograms per liter;

L is the length of the measurement reach, in feet;

Q is the stream discharge, in cubic feet per second;

V_s is the volume of rhodamine WT 20-percent dye, in milliliters; and

v is the mean-stream velocity, in feet per second.

A plot of equation 6 for a value of C_p=1.0 µg/L is shown in figure 4. For most discharge measurements, a peak concentration of 10 to 20 µg/L is recommended. Experience indicates that in lined channels and smooth pipes flowing full, the dosages may be reduced to one half to one fourth, respectively, of the amount needed in a natural stream, as defined by equation 6. In such cases, longitudinal dispersion is less and, hence, less dye is required to produce a desired peak.

Pontacyl pink dye comes as a 100-percent pure powder. It compares favorably with rhodamine WT as a water tracer and can be analyzed on most fluorometers using the same lamps and filters as for rhodamine WT. The weight in grams of pontacyl pink needed for a slug injection can be determined from equation 6 or figure 4 by multiplying the volume, in milliliters, for V_s by 0.24.

Preparation of injection solutions

The dosage required for a slug injection is determined from equation 6 or directly from figure 4. Care should be taken to mix the contents of the container thoroughly before withdrawal. For very small quantities, graduated "To Contain" pipets should be used. Special dye pipets of tough borasilicate glass, with white graduations, are available for use in the field. They range typically from 1 to 25 mL total capacity with accuracies of ±2 percent. Rhodamine WT 20-percent dye is rather viscous and tends to cling to the sides of graduated cylinders and other laboratory glassware; mixing with a larger quantity of water before injection will help to obtain an accurate injection of the amount measured.

Just before withdrawing the concentrated dye, 10 L or so of river water should be measured accurately into a container (most buckets will readily contain 10 to 12 L). The exact

amount of dye withdrawn (it will probably be slightly different from the amount computed) should be measured and delivered to the larger container. When using a "To Contain" pipet, the contents should be blown out into the container, care being taken not to allow droplets of dye on the outside of the pipet to spill into the container. The exact volume of rhodamine WT 20-percent dye and water mixture to be injected into the stream must be recorded.

A sample of the mixed tracer solution must be retained in the event standards are to be prepared from it; 50 mL is a desirable sample amount. The removal of the sample from the total amount injected must be noted.

Field equipment

The equipment required for a slug-dye injection is minimal; a container of stock solution, laboratory glassware for the measurement of volumes, a range of graduated pipets, a container to dilute the mixture in preparation for injection, sample bottles, sample bottle holders, a watch, and note sheets.

Glass sample bottles are recommended in preference to plastic bottles, because the dye may have a slight affinity for plastics. A convenient bottle is an 8-dr (approximately 32 mL or 1 oz) polyseal-cap glass bottle. This bottle has sufficient volume for six to eight analyses on a fluorometer and is easy to clean and handle.

Equipment required for collecting the sample will vary with the method of collection, that is, from a bridge or a boat, or by wading. The sampler shown in figure 5 holds the 1-oz bottle mentioned earlier and may be easily lowered from bridges or cableways or tossed out into the flow if necessary (fig. 6).

Generally, a fluorometer is neither needed nor desirable in the field for most dilution-type discharge measurements.

Fluorometer calibration

It is recommended that a calibration be prepared for each lot of dye and fluorometer in use, and that the results be kept in the laboratory with the fluorometer. A copy of the calibration should be provided to those doing dye-discharge measurements as an aid in selecting

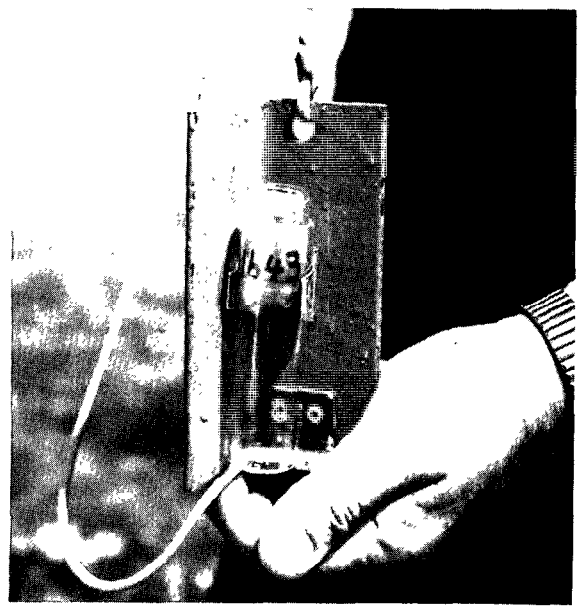


Figure 5.—Dye sampler constructed from a section of angle iron and a broom clamp.

the most suitable concentrations. For example, the graph of the fluorometer calibration in figure 7 shows that if a peak concentration of 20 μg/L were chosen, it would probably fall conveniently on the high end of scale III; thus, all smaller concentrations to be expected could also be measured using just this one fluorometer scale.

A new calibration using the serial-dilution process should be performed for any new dye lot. This procedure is explained fully in the manual on "Fluorometric Procedures for Dye Tracing" by Wilson and others (1984) and is reiterated here because the methods involved are important in understanding dilution-measuring techniques.

Serial dilution is a procedure for reducing a concentrated dye solution step by step to concentrations low enough to measure on a fluorometer. Precise measurements of dye and water in each step of the serial-dilution procedure are necessary to prepare a set of standards for accurate calibration of a fluorometer. Distilled water is usually recommended for the preparation of standards. The serial dilution procedure is based on the equation



Figure 6.—Sampling a turbulent stream by tossing a dye sampler into the flow.

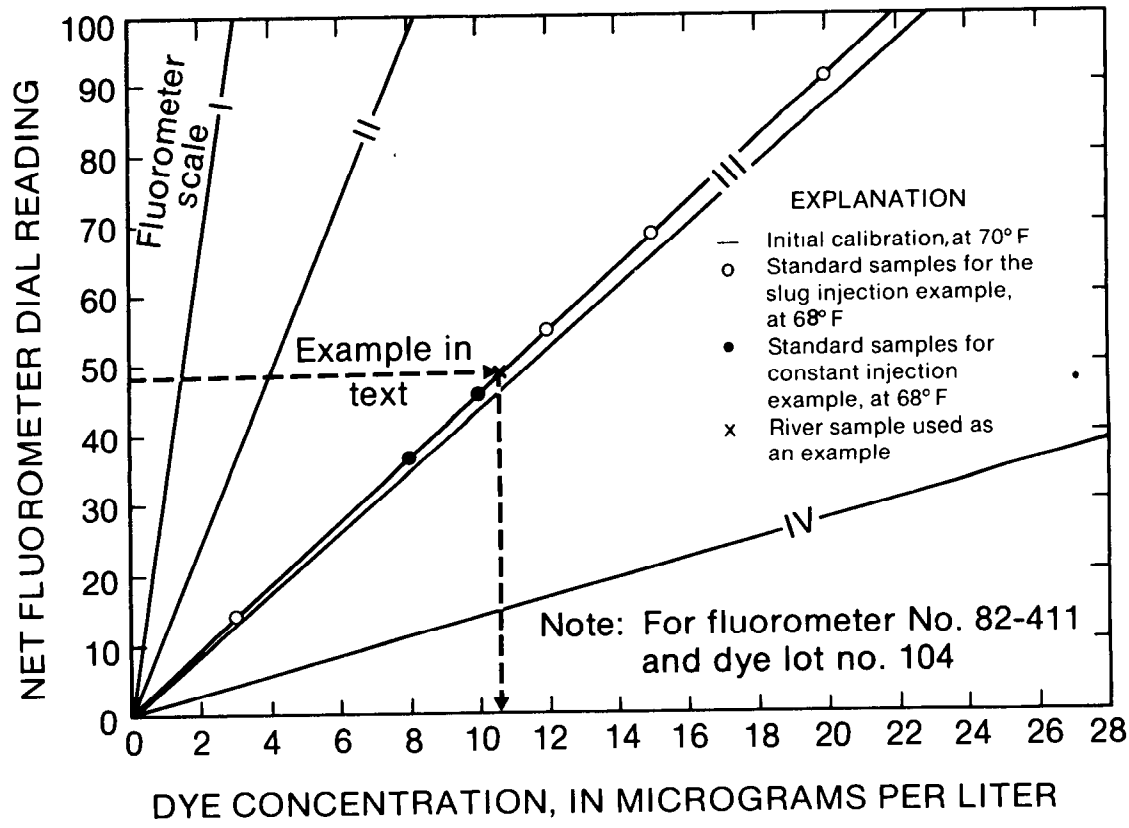


Figure 7.—Typical calibration curves for a fluorometer.

$$C_n = C_i\left[\frac{W_d}{V_w+V_d}\right] = C_i S_G\left[\frac{V_d}{V_w+V_d}\right] \quad (7)$$

where C_i is the initial concentration;
C_n is the new concentration;
S_G is the specific gravity of the initial dye solution, 1.19 for rhodamine WT 20-percent solution;
V_w is the volume of the added water;
V_d is the volume of dye solution added; and
W_d is the weight of dye added.

If rhodamine WT 20 percent is used, it is necessary to perform three dilutions to obtain concentrations on the order of 100 µg/L (see table 2A). In each step, the preceding C_n becomes the new initial concentration, C_i. It is recommended that this third solution (100 µg/L) be retained in quantity and that specific standards of smaller concentration be prepared (a fourth dilution) for the original calibration of a given dye lot as well as for the preparation of selected standards in the future when the same dye lot is used. This 100-µg/L solution, referred to henceforth as a "working solution," should be kept sealed and stored out of direct light. The practice of retaining a working solution of 100 µg/L for each dye lot eliminates the need to perform a complete serial dilution each time the fluorometer is calibrated. Nevertheless, the calibration should be confirmed each time a measurement is made, as it may have changed or may be for a different sample temperature.

An infinite number of combinations of water and dye may be used to prepare standards. Table 2A provides convenient combinations for three dilutions to produce a working solution of 100 µg/L. Table 2B provides convenient combinations (columns 2 and 3) for the fourth dilution to obtain the final standard concentrations (column 4).

The following steps should be taken in analyzing standards for calibration of the fluorometer:

1. Allow all standards, including the distilled-water background samples to reach a common temperature; measurement of sample temperatures will then be unnecessary (Dunn and Vaupel, 1965).
2. Allow the fluorometer to warm up adequately, about 2 hours for the Turner Model 111 and 10 minutes for the Turner Designs Model 10.
3. Analyze all standards in the fluorometer in an identical manner: same cuvette and same temperature.

Table 2A.—Convenient three-step serial dilutions for preparation of a working solution.

(Data in milliliters except as otherwise indicated)

Dye used in test	Line	Dilutions						Working solution, in µg/L (7)
		First		Second		Third		
		V_d (1)	V_w (2)	V_d (3)	V_w (4)	V_d (5)	V_w (6)	
Rhodamine WT (20 percent, S_G = 1.19)	a	50	3792	20	3500	20	3500	100
	b	25	2585	20	3000	20	3000	
	c	20	2068	20	3000	20	3000	
	d	20	1158	10	2000	10	2000	
		W_d in gms						
Pontacyl pink and acid yellow 7 (powder)	e	10	3218	20	3500	20	3500	100
	f	5	2188	20	3000	20	3000	
	g	5	1233	10	2000	10	2000	

Table 2B.—Convenient fourth-step dilutions for preparation of dye standards using a 100-µg/L working solution.

Final standard number (1)	V_d (mL) (2)	V_w (mL) (3)	Final standard concentration C_f, (µg/L) (4)	Total dilution factor $D_T \times 10^{-8}$ (5)	Fluorometer scale I (6)	II (7)	III (8)	IV (9)
1	300	100	75	31.51				
2 a	200	200	50	21.01				
b	250	250						
3 a	100	150	40	16.81				
b	200	300						
4	100	233	30	12.62				
5 a	50	150	25	10.50				
b	100	300						
*6 a	50	200	20	8.40				
b	100	400						
c	125	500						
*7 a	50	283	15	6.31				
b	100	566						
*8 a	20	147	12	5.03				
b	25	183		5.05				
c	50	366		5.05				
**9 a	20	180	10	4.20				
b	25	225						
c	50	450						
d	100	900						
**10 a	20	230	8	3.36				
b	25	288						
c	50	575						
11 a	20	313	6	2.52				
b	25	392						
c	50	784						
12 a	20	380	5	2.10				
b	25	475						
c	50	950						
13 a	20	480	4	1.68				
b	25	600						
c	50	1200						
*14 a	20	647	3	1.26				
b	25	808						
c	50	1617						
15 a	10	490	2	0.84				
b	20	980						
c	25	1225						
d	50	2450						
16 a	10	990	1	0.42				
b	20	1980						
c	25	2475						
17 a	10	1240	0.8	0.336				
b	20	2480						
c	25	3100						
18 a	10	1657	0.6	0.252				
b	20	3313						
19 a	10	1990	0.5	0.210				

* Used in example of slug-injection test.
**Used in example of constant-injection test.

4. Plot the fluorometer calibration on rectilinear graph paper, and reconcile any data points that do not conform to the curve by reanalysis of fresh samples on the fluorometer and, if necessary, by preparation and analysis of new samples.

Performance

A schematic diagram of the step-by-step performance of a slug-injection type dye-dilution measurement is shown in figure 8. The steps in performing such a test use the example shown.

Selection of measurement reach (1)

The stream discharge and the other stream characteristics listed in figure 8, are estimated; using equation 4, compute an optimum stream reach length of about 700 ft. It is desirable to avoid any gain or loss in flow relative to that at the gage, so injection is to be made upstream with sampling close to the gage.

Background samples (2)

Samples of the stream water—at least one, preferably two—are needed before dye injection in order to obtain a reading of the background. The samples should be obtained just before the tracer is injected into the stream, preferably before the dye is handled at all (see sample number 202 on the note form in fig. 8).

Dye injection (3)

For the channel and flow conditions shown, it was decided to try for a peak concentration of about 20 μg/L, using rhodamine WT 20 percent. From figure 4, a volume of 0.5 mL is obtained for a peak of 1 μg/L; thus, for a peak of 20 μg/L, 10 mL of rhodamine WT dye is required.

Next, 10 L of river water is carefully measured into a clean bucket to which the 10 mL of dye is added and mixed. A 50-mL sample of this mixture is retained for future use. The entire contents (9,960 mL) are dumped as a slug into what is judged to be the centroid of the flow. The time is noted, and the person at the sampling site is notified. A good practice is to start a stopwatch at the instant of injection so that all samples are recorded with respect to lapsed time from injection (see the notes and data plots of fig. 8).

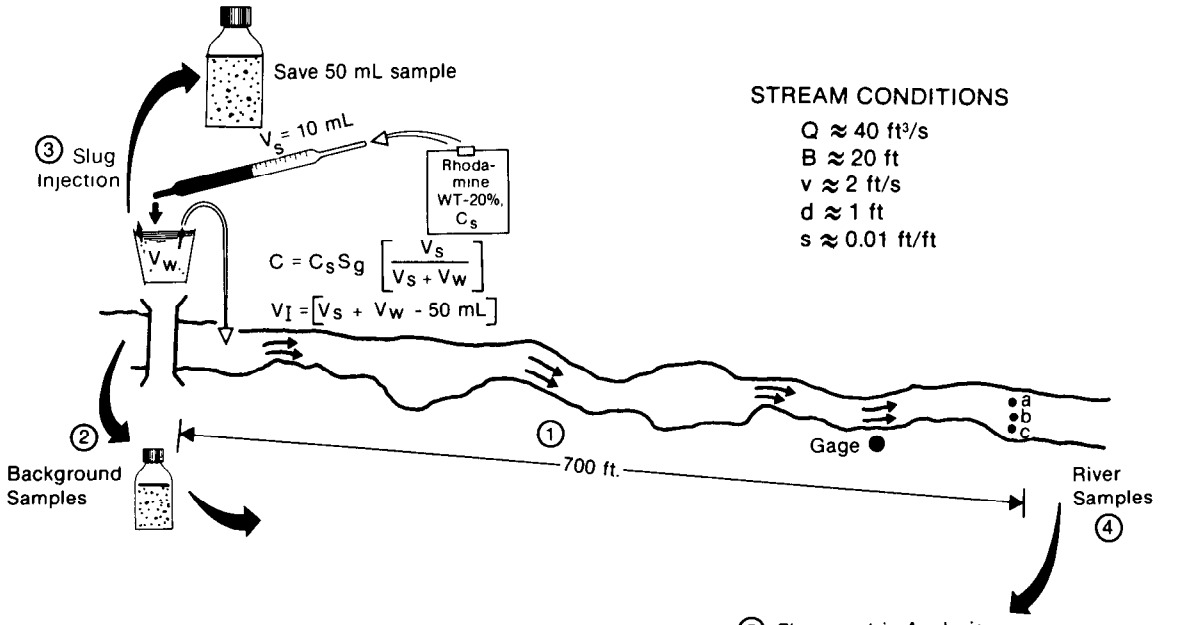
Sampling the dye cloud (4)

The passage of the entire tracer cloud must be monitored for the slug-injection method of discharge measurement. Sampling should begin before the tracer arrives at the section and continue until it has entirely passed. Large numbers of samples are normally required to make certain the entire cloud is measured. Samples should be taken from at least three points in the section in what is estimated to be equal increments of flow. For example, if three points in the section are to be sampled, the samples should be taken at the 1/6, 3/6, and 5/6 points of cumulative flow across the section. Samples 203 through 241 are those taken to define the dye cloud at points a, b, and c across the channel.

Because the samples are not usually analyzed in the field, the length of time for complete passage is an estimate. As a rough approximation, sampling past the peak should continue for two to four times as long as it takes for the peak to arrive. In some instances, the arrival of the peak can be ascertained visually. Hence, if the peak was estimated to have arrived 5 minutes after injection, sampling should continue for a minimum of an additional 10 minutes and preferably 20 to 25 minutes. On this small stream, samples must be taken at very short time intervals; therefore two people are needed, one sampling and one noting the exact time and recording the data. Sampling may be less frequent as the dye cloud recedes. All samples are sealed and stored out of direct sunlight. Notes describing the measurement accompany the samples to the laboratory.

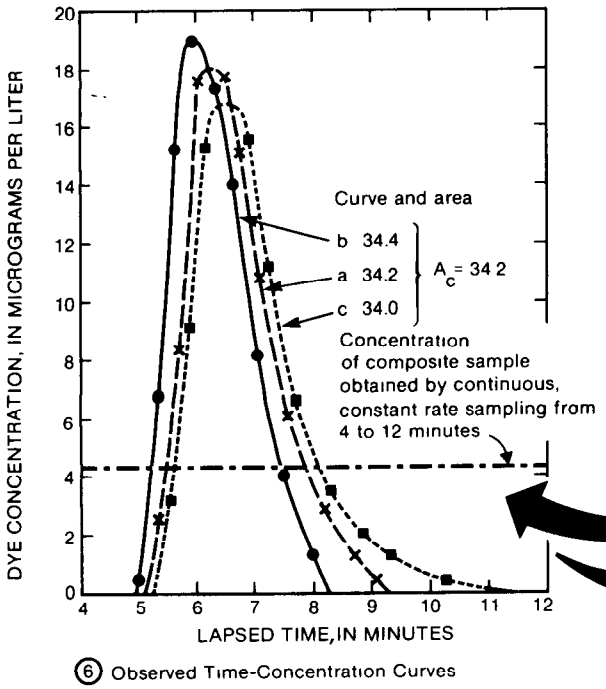
Fluorometric analysis (5)

The single scale that will accommodate the maximum concentrations expected in the field samples should be set on the fluorometer. The quantity of dye injected in step (3) was predicated on obtaining a peak of about 20 μg/L.



⑤ Fluorometric Analysis

Sample number	Location in section	Lapsed time (min-s)	Fluorometer reading Scale I	II	III	IV	Net reading	Concentration in (μg/L)
250	Distilled water			0 1	0 1			0
251	Standard				91 1		91 0	20
252	Standard				68 4		68 3	15
253	Standard				54 7		54 6	12
254	Standard				13 9		13 8	3
202	Background	0			02			
203	a	4-40			0 2		0	0
204	b	4-46			0 2		0	0
205	c	4-52			0 2		0	0
206	a	5-0			2 4		2 2	0 4
207	b	5-08			0 9		0 7	0 1
208	c	5-13			0 2		0	0
209	a	5-20			31 5		31 3	6 8
210	b	5-26			11 0		11 8	3 0
211	c	5-32			15 2		15 0	3 2
212	a	5-40			69 2		69 0	15 2
213	b	5-46			43 5		43 3	9 4
214	c	5-53			42 2		42 0	9 2
215	a	6-0			86 6		86 4	19 0
216	b	6-07			80 7		80 5	17 7
217	c	6-12			70-2		70 0	15 4
218	a	6-20			79 5		79 3	17 4
219	b	6-26			81 4		81 2	17 8
220	c	6-31			76 5		76 3	16 7
230	a	8-0			6 5		6 3	1 3
231	b	8-10			13 7		13 5	2 9
232	c	8-20			16 7		16 5	3 6
233	a	8-30			0		0	0
234	b	8-40			6 9		6 7	1 4
235	c	8-50			9 5		9 3	2 0
236	a	9-0			0 2		0	0
237	b	9-10			1 7		1 5	0 3
238	c	9-20			6 2		6 0	1 2
239	a	10-0			0 2		0	0
240	b	10-10			0 2		0	0
241	c	10 20			0 4		2 2	0 4



⑥ Observed Time-Concentration Curves

⑦ Computation of Discharge

$$Q = 5\ 89 \times 10^{-7} \left[\frac{S_G V_S C_S}{A_C}\right]$$

$$Q = 5\ 89 \times 10^{-7} \left[\frac{1\ 19 \times 10 \times 20 \times 10^{7}}{34\ 2}\right] = 41\ 0\ ft^3/s$$

Figure 8.—Schematic diagram depicting the performance of slug-injection type dye-dilution discharge measurement.

Examination of the fluorometer calibration in figure 7 shows that it should be possible to measure that peak and all lesser sample concentrations on scale III. The use of more than one fluorometer scale should be avoided if possible.

Scale III must be recalibrated up to about 20 μg/L. Examining table 2B, four standards—20, 15, 12, and 3 μg/L—are prepared from the 100-μg/L working solution retained for this purpose. Those standards and all river and background samples are brought to a single temperature of 68°F. (Any temperature can be used, provided that all samples are analyzed at the same temperature.) The calibration for scale III is plotted as shown in figure 7. Note that net readings are used, the background for distilled water being subtracted first.

All river samples including the background sample, 202, are analyzed on the fluorometer, and, using the above calibration, absolute concentrations are determined for each; the stream-background reading is subtracted from each stream sample before entering the calibration curve.

Data analysis and computation of discharge (6 and 7)

The time-concentration curves for the three sample points, a, b, and c, are plotted and their areas determined. Comparison of the individual curve areas indicates that adequate mixing has been achieved. An average curve area, A_c, of 34.2 μg/L times minutes is obtained. Using equation 3, with V_s substituted for V_I and C_s substituted for C, the discharge may be computed as

$$Q=5.89\times10^{-7}\left[\frac{1.19\times10.0\times20\times10^{7}}{34.2}\right]$$

$$=41.0\ \text{ft}^3/\text{s}^7\ .$$

Alternative method of analysis and computation

During the preparation of the solution for injection, 10 mL of dye was mixed with 10 L of river water, and a 50-mL sample of the mixture was retained (step 3, fig. 8). The concentration used in the earlier computation was for the manufacturer's stock solutions: 20×10^{-7} μg/L for rhodamine WT. Using equation 7, it can be seen that the 10 L had a concentration of

$$C=1.19\times20\times10^{7}\left[\frac{10.0}{10{,}000+10.0}\right]$$

$$=23.8\times10^{4}\ \mu\text{g/L}\ .$$

Hence, a major dilution was made at this point. Thus, the 50 mL sample may be used in preparing standards for this particular measurement instead of starting with the stock solution.

In preparing standards from C (above), note that, according to equation 7, 20 mL of dye solution added to 1,980 mL of water is a dilution of 10^{-2}. If repeated, a total dilution of 10^{-4} is obtained, because the final dilution in any serial dilution is the product of the individual dilutions. For any dilution after the first, the specific gravity term in equation 5 may be ignored. Thus, if C (above) was diluted twice, as described, for a total dilution of 10^{-4}, the resulting concentration would be $23.8\times10^{4}\times10^{-4}$ =23.8 μg/L. While this would be off scale III in figure 7, other standards may be produced by judicious selection of dye and water volumes. The analysis in figure 8 would then be based on the fluorometer calibration thus obtained, and computations would be based on the new volume and concentration injected such that the discharge (using eq. 3) would be

$$Q=5.89\times10^{-7}\left[\frac{(10{,}000+10-50)\times23.8\times10^{4}}{34.2}\right]$$

$$=40.8\ \text{ft}^3/\text{s}\ .$$

This alternative method of analysis is more accurate than the first, because any errors that occur when measuring the 10 mL of dye for use in the solution to be injected are canceled. Similarly, in preparing standards, only two dilutions are necessary, instead of four as in the previous example. Furthermore, if the exact concentration of the solution injected is unknown, a measurement is still possible if a sample of the solution that was injected is retained and used in the laboratory to develop a calibration in the manner previously described. Such a trial-and-error calibration would be more work in the laboratory but would be accurate if correctly done. That is true because the

concentrations that would be plotted for the time-concentration curves of figure 8 are based on a calibration which is, in turn, based on the injected concentration, C; hence, the exact concentration of C is not needed. Knowledge of the absolute value of C does simplify the preparation of standards. The disadvantage of the alternative method is that more standards must be prepared, as well as new ones for each measurement. Obviously, it is important that the field person always retain a sample of the actual dye solution injected.

Alternative method of measurement

As the data in figure 8 show, 39 samples were required to define the three time-concentration curves. An alternative method of sampling greatly reduces the sampling requirements but may obscure the quality of the data and the accuracy of the measurement. This alternative method consists of withdrawing a sample continuously and at a constant rate from the stream during the passage of the dye cloud. The time period of sampling, ΔT_c, should be greater than the actual time, T_D, the dye cloud is present. Each sample obtained for the one or more points of sampling is composited, and one sample is analyzed for concentration. This concentration, less the background, is the average concentration, C_a, for the entire dye cloud for the time, ΔT_c. Therefore, $A_c=\Delta T_c C_a$, and equation 3 may be written as

$$Q=5.89\times10^{-7}\frac{S_G V_I C}{\Delta T_c C_a} . \qquad (8)$$

Assume for the example used above that a sample was pumped at a constant rate from the center of the channel into a clean container for an 8-minute period. If this composite sample yielded a concentration of 4.30 μg/L (see fig. 8), the discharge may be computed as

$$Q=5.89\times10^{-7}\left[\frac{(10{,}000+10-50)\times23.8\times10^4}{8\times4.30}\right]$$

$$=40.6\ ft^3/s .$$

For this example, the assumption was made that mixing was complete. An alternative to pumping a sample would be to collect manually, individual samples of a given volume at uniform time intervals to form a composite sample. Note that for the above example, any time interval greater than 10 seconds might not adequately sample the peak concentrations and thus might not yield a representative sample. From a practical standpoint, it would be difficult to sample manually at such frequencies at more than one point in the section. Where this method is used, sampling just at one point in the main flow at a greater length (say 1,000 ft in the above example) might be advisable. Not only would mixing be improved (and therefore samples at just one point more likely to yield accurate results), but sampling at uniform 15-second intervals would probably be sufficient.

Note that in the example illustrated in figure 8, adequate and complete measurement of all three of the time-concentration curves requires very frequent sampling and accurate recording of time of sampling. In fact, the task would be virtually impossible for one man to perform; one man is needed to sample and one to record the exact times of sampling. In this case, a reach length of 1,000 ft or more might have been advisable to elongate the dye cloud for greater ease and accuracy of sampling. On larger streams with correspondingly greater mixing lengths, this would not be as serious a problem.

Constant-Rate Injection Method

Overview

The constant-rate injection method generally is preferred to the slug-injection method in spite of the additional requirement for a device that will release the tracer at small, constant rates. Various devices that will achieve the required small, constant rates of injection are available commercially or can be fabricated. They are described in detail later in this

manual. An advantage of the constant-rate injection method is that significantly fewer samples are needed, compared with the slug-injection method.

Equation 2 is in a more usable form as

$$Q = 5.89 \times 10^{-7} \, q \frac{C}{\bar{c}} \qquad (9)$$

where Q is the discharge of the stream, in cubic feet per second;
q is the rate of injection of the tracer, in milliliters per minute;
C is the concentration of the dye solution injected into the stream, in micrograms per liter; and
$\bar{c}$ is the equilibrium, or plateau concentration, in micrograms per liter, averaged or weighted across the sampling section.

This equation not only is used to compute the discharge measurement, but also, by solving for q for a given c, may be used to estimate dye quantities for preparing injection solutions. Mixing distances and reach selection are determined in the same manner as for the slug-injection method.

Preparation

Selection of dye concentrations and injection rates

The curves in figure 9 were computed from equation 9 for a plateau concentration, $\bar{c}$, of 10 µg/L. A dye concentration of 10 µg/L in the stream is well above background levels commonly experienced. In most cases, a good dye-dilution discharge measurement can be made

NOTE: Curves are based on equation $Q = 5.89 \times 10^{-7} q \frac{C}{\bar{c}}$ for $\bar{c}$ = 10 µg/L; greater discharges may be measured by allowing $\bar{c}$ to be less than 10 µg/L.

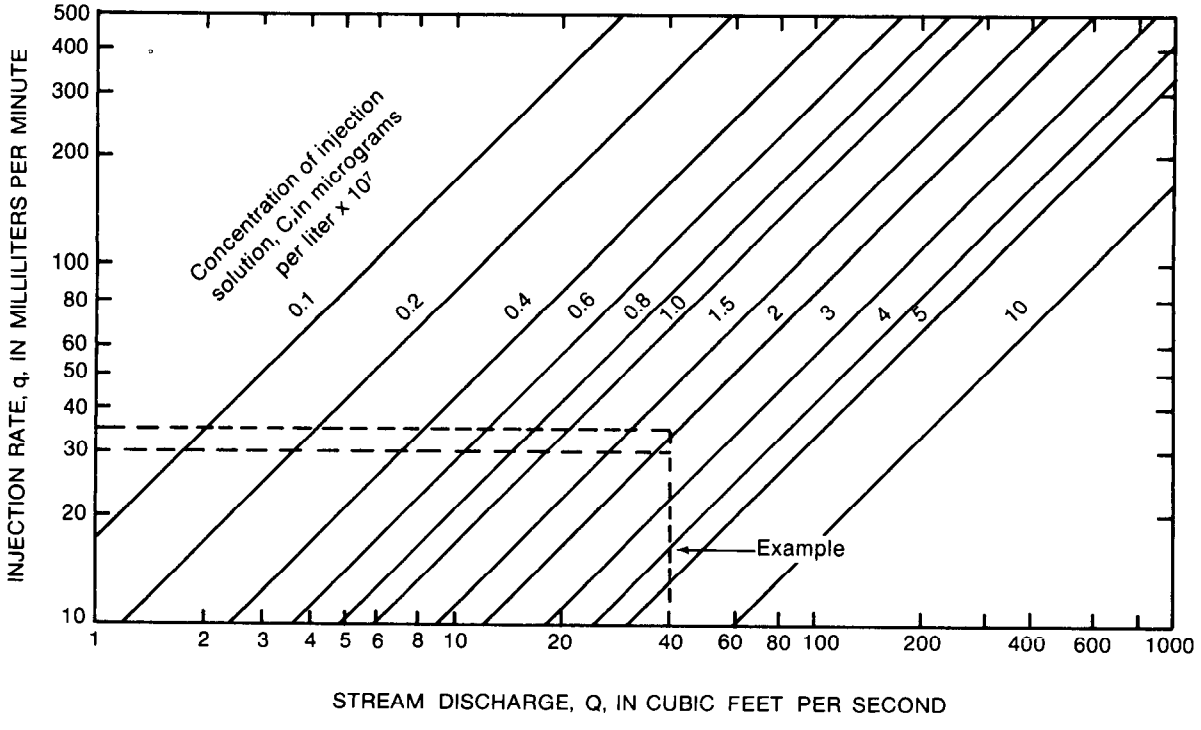


Figure 9.—Graph used for estimating rates of dye injections for different stream discharges and concentrations of injection solutions.

Table 3.—Convenient volumes of water and dye to mix for the preparation of bulk solutions of selected dye concentrations.

	Desired concentration C in $\mu g/L \times 10^7$ (1)	Volumes to mix together: V_w Water, in milliliters (2)	Volumes to mix together: V_d 20% Rhodamine WT dye, milliliters (3)	Dilution factor $D_C \times 10^{-2}$ (4)	Volume of mixture in gallons (5)
1	10	10,700	7,750	42.0	4.87
2	10	11,000	8,000	42.1	5.02*
3	5	14,100	3,750	21.0	4.72
4	5	15,000	4,000	21.1	5.02*
5	4	14,850	3,000	16.8	4.72
6	3	15,600	2,250	12.6	4.72
7	2	16,350	1,500	8.40	4.72**
8	1.5	16,350	1,100	6.30	4.61
9	1.5	17,850	1,200	6.30	5.03*
10	1.0	17,100	750	4.20	4.72
11	0.8	17,250	600	3.36	4.72
12	0.6	17,400	450	2.52	4.72
13	0.4	17,550	300	1.68	4.72
14	0.2	17,700	150	0.80	4.72
15	0.1	17,775	75	0.42	4.72

* In many instances, commercial 5-gallon containers are slightly greater in actual volume; the smaller volumes allow for easier mixing.

**Used in example.

with concentrations as low as 2 μg/L; however, higher concentrations are preferred, to lessen the significance of background levels and thus to improve accuracy. Figure 9 is used only to estimate the injection rate needed; the allowable latitude in $\bar{c}$ virtually guarantees a successful measurement, no matter how poor the estimate may be. Furthermore, if 2 μg/L is viewed as a lower limit for $\bar{c}$, discharges five times those in figure 9 may be measured, using the concentrations and injection rates shown.

Preparation of injection solutions

Bulk solutions

Frequently, the streams to be measured are readily accessible by vehicle, and several streams are to be measured by dye-dilution methods on a single field trip. An example might be a series of turbulent mountain streams where current-meter measurements are difficult or impossible to make. In such a case, considerable field and laboratory work may be saved by preparing one or two solutions of dye in advance in bulk. The solutions should be tailored to the expected range of flows and the capabilities of the injection apparatus.

Table 3 shows convenient combinations of volumes of rhodamine WT 20-percent dye and water to yield about 5 gal of bulk solution with the concentrations shown in figure 9. Five gallons is normally sufficient for a dozen discharge measurements. The dilutions for concentrations in column 1 of table 3 were determined using equation 7. That equation permits the preparation of any smaller concentrations of dye, such as for the family of curves in figure 9, based on measured combinations of water and dye. Thus any concentration of dye desired can be obtained to suit the need, depending on the

Table 4.—Prepackaged dye quantities to produce selected concentrations of injection solutions.

	V_d, Premeasured volumes of rhodamine WT 20% dye, milliliters (1)	Number of bottles of dye (2)	$V_w + V_d$, Total volume of water and dye solution, milliliters (3)	Dilution factor $D_C \times 10^{-1}$ (4)	Resulting solution concentration, C, $\mu g/L \times 10^7$ (5)
1	50	1	2000	0.25	0.60
2	50	1	1000	0.50	1.19
3	100	2	2000	1.00	2.38
4	100	1	1000	1.00	2.38*
5	100	2	1000	2.00	4.76
6	100	4	2000	2.00	4.76
7	100	5	2000	2.50	5.95
8	100	6	2000	3.00	7.14
9	250	1	1000	2.50	5.95
10	250	2	1000	5.00	11.90

*Example

capability of the injection equipment and the stream discharge to be measured. The assumption has been made that rhodamine WT 20 percent has a specific gravity of 1.19. Tests have indicated that this may vary from 1.10 to 1.20. For a given dye lot, any such variation will not affect the accuracy of the measurement; the error is canceled, for in equations 2 and 9 the concentrations form a ratio and are relative. This will become apparent later in the discussion of the use of relative concentrations. The dye as received from the manufacturer in large containers should be well mixed before extracting dye to prepare injection solutions. Carefully roll the drums to mix any solid dye that may have been deposited on the bottom.

The advantages of bulk preparation of the dye solutions are

1. Field preparation is unnecessary.
2. Clean water may be used in solution preparation, thereby preventing inpurities from causing injection stoppages.
3. The fluorometer may be calibrated in advance for the dye mixture used and only spot-checked at the time of analysis of the stream samples.
4. Many measurements can be made from one concentration of injection solution, thus greatly reducing laboratory preparation of samples and calibration of the fluorometer.

Prepackaged dye quantities

Dilution gaging is particularly well suited to measuring discharge on small cobble-strewn or rocky mountain streams. Such streams are frequently inaccessible, and carrying quantities of premixed dye solutions is onerous. An alternative is to prepackage carefully measured quantities of dye to permit the preparation of injection solutions onsite, using stream water. Table 4 provides a convenient range in premeasured dye quantities to be mixed with selected volumes of water to obtain desired concentrations of injection solutions. These solutions should be packaged in bottles of suitable size, sealed with plastic tape, and labeled. The total volumes of injection solutions have been made to be 1 or 2 L to permit use of those sizes of laboratory graduated cylinders, both for measuring the quantity of solution and as calibrated reservoirs from which injection rates can be measured.

Constant-rate injection equipment

The constant-injection dye-dilution method requires apparatus capable of injecting dye at a small, constant rate reliably and accurately. Equipment that can be purchased or fabricated that will produce constant-rate injections under field conditions includes battery-driven pumps, mariotte vessels, and various chemical-feed devices; each is discussed here.

Pumps

Figure 10 shows a small fluid-metering pump operating on a 12-volt d-c battery withdrawing a dye solution from a graduated cylinder. It is a valveless, variable, positive-displacement pump that can be set for a rate up to 48 mL per minute. Different models are available in a range of capacities and produce accuracies on the order of 1 percent. The valveless feature is desirable because it is cleaner and can handle dirt and foreign material in the dye solution. The rate settings have been found to be reproducible within a fair degree of accuracy; nevertheless, the actual injection rate should be independently measured. Figure 10 shows this measurement being done volumetrically by plotting volume versus time and calculating the injection rate from the slope of the resulting line. The advantages of this method of measuring the injection rate are that

1. Any change in the injection rate during the test will be revealed by a change in the slope of the line.
2. The injection is not interrupted during the discharge measurement and may be observed throughout.
3. Sufficient data are obtained to guarantee an accurate measurement of the injection rate.
4. Separate sampling of the dye-injection rate is not necessary, thus reducing the chance of contamination of the hands; this is particularly important if only one person is performing the discharge measurement.

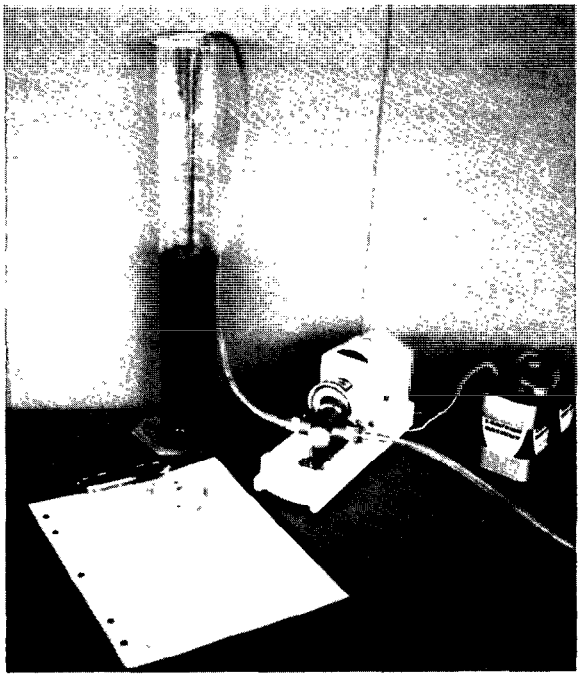


Figure 10.—Pump and graduated cylinder used for constant-rate dye injection.

Thin-wall, 1/8-in-diameter brass tubing is used in the cylinder as a withdrawal line to prevent an error in the measured volumes. The pump shown in figure 10 is designed for pumping against a relatively low pressure of 5 lb/in^2. For pumping into pipes and under ice, and for multiple-line injections, pumps capable of injecting against greater pressures are available. Regardless of manufacturers' ratings, all pumps should be bench tested to check rates and stability of each rate.

This apparatus may be packaged into a backpack unit for use at remote sites (see fig. 11). The entire unit, shown closed in figure 12, weighs only 20 lb. It can be set up, as shown, in minutes. After each use, a water or water-and-alcohol solution should be pumped through the unit to prevent a residue of dye from drying inside and coating parts and tubes.

Peristaltic pumps have also been successfully used for the constant injection of dye solutions. They are usually less expensive than the displacement-type pump but have not proven as accurate.

Mariotte vessels

The mariotte vessel is an inexpensive, simple, and yet reliable constant-injection device. Virtually any rigid, sealable vessel can be made into a mariotte vessel (see fig. 13). The

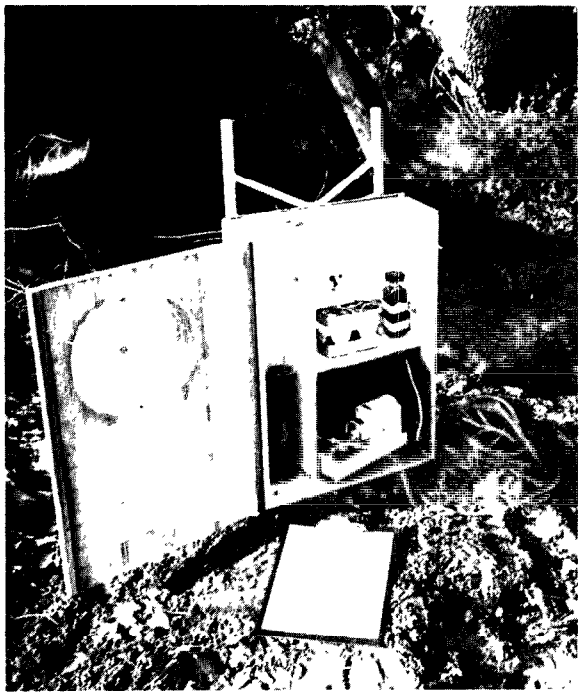


Figure 11.—Backpack dye-injection apparatus in use.

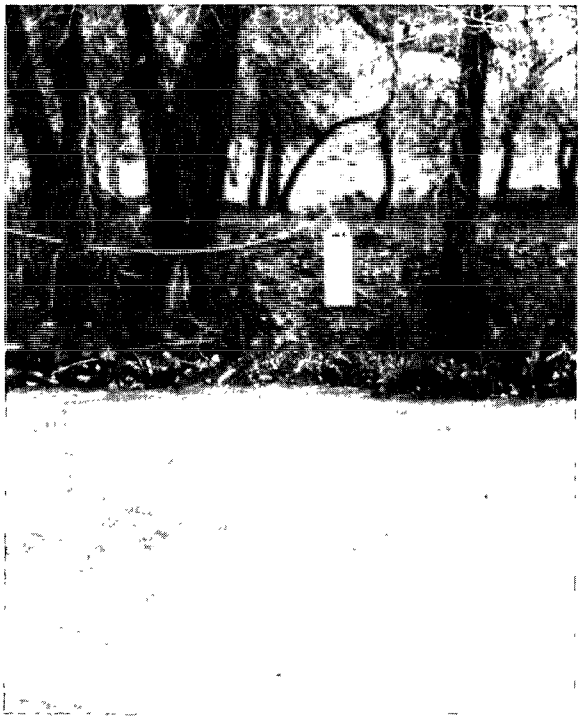


Figure 13.—Dye injection using a 5-gal can mariotte vessel positioned over the stream by a light cable and trolley system.

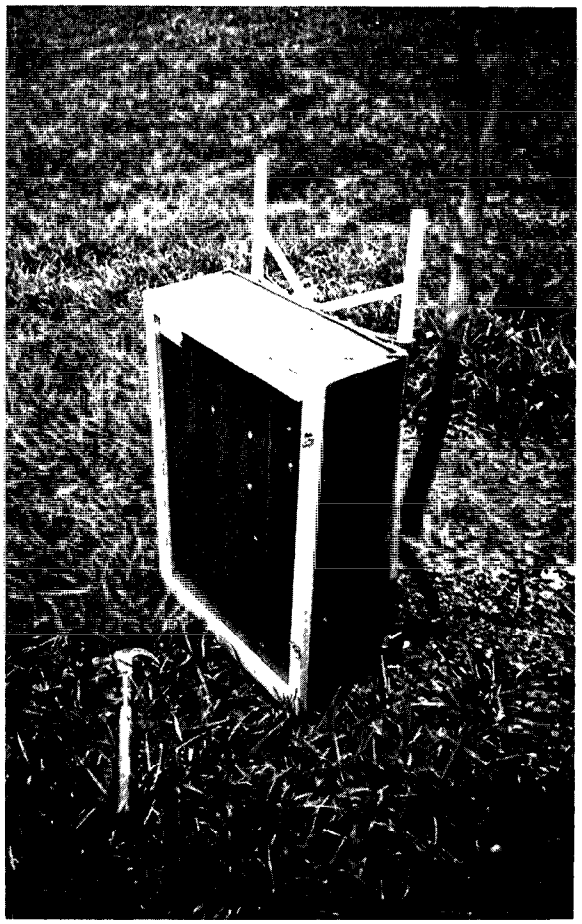
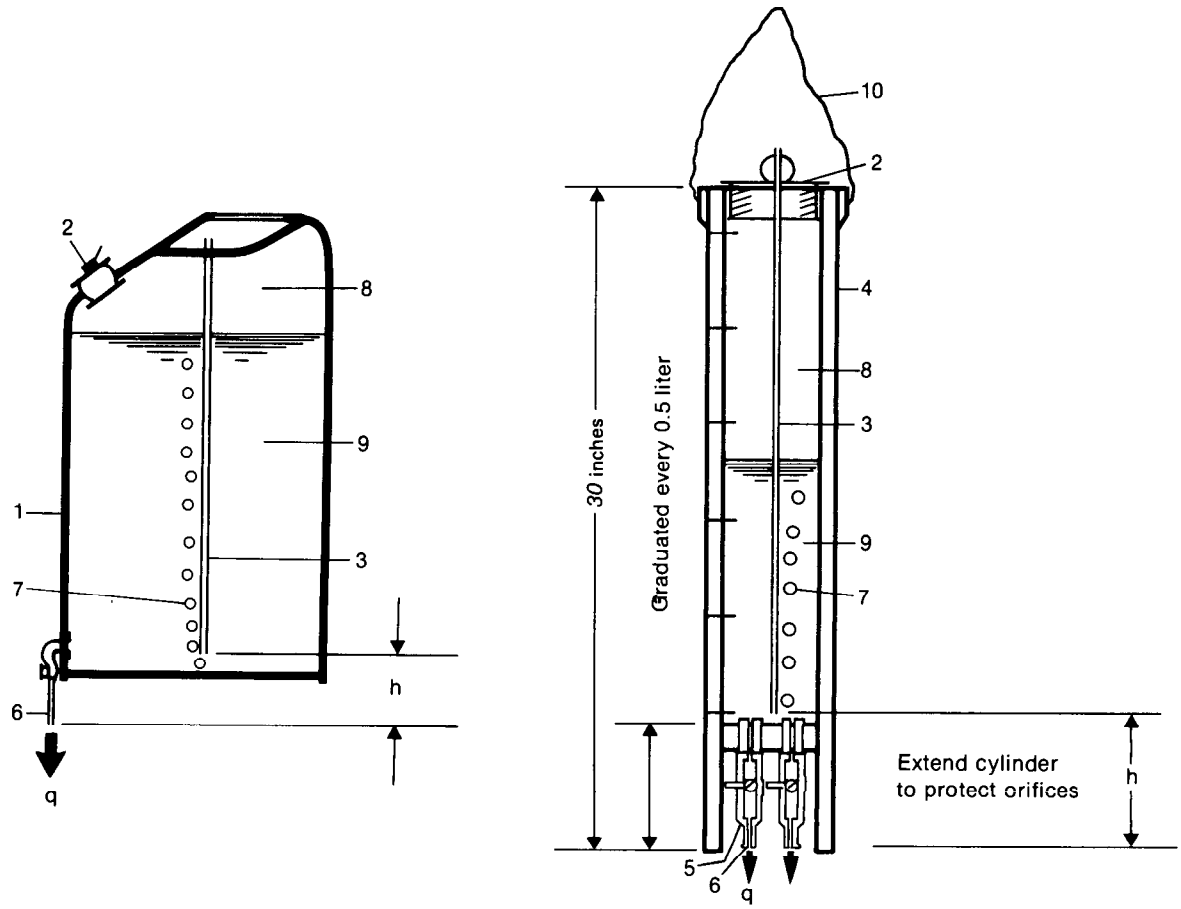


Figure 12.—Backpack dye-injection apparatus ready for transport.

device works on the principle that the air entering the tank to replace the outgoing dye solution is at all times at atmospheric pressure at the tip of the air-intake tube (see fig. 14). Thus, whatever the depth of fluid in the sealed container, constant pressure exists at the tip of the air-intake tube regardless of its depth. The dye solution discharges through a bottom tube or orifice at a rate depending on outlet orifice size and head, h, on the orifice. The head can be varied by raising or lowering the elevation of the outlet tube relative to the bottom of the air-intake tube. The mariotte vessel is a reliable constant-rate injection device if these conditions are ensured:

1. The dye solution is clean and free of dirt that might clog the orifice; it is sometimes desirable to strain the solution.



EXPLANATION

1. Water can, 5-gallon, with heavy enameled interior.
2. Vacuum bottle top, or plumber's 4-inch pipe plug, expandable type; all openings must be sealed airtight.
3. Air-inlet tube.
4. Plastic cylinder, rigid, 4-inch inside diameter.
5. Gas valve, brass.
6. Orifice, brass; a range of sizes is used to match desired injection rate.
7. Air emitted to replace discharging dye solution; atmospheric pressure exists at low point of air tube regardless of fluid above it.
8. Airspace above dye solution; a partial vacuum exists, requiring that container be of rigid-wall, airtight construction.
9. Dye solution.
10. Sling.

h. Head on orifice; equal to difference in elevation between tip of orifice and bottom of air tube.

q. Injection rate; a function of the diameter, D, of the orifice, and of h. An approximate equation for the injection rate is $q(mL/min) = 50{,}000\ D^2\sqrt{h}$ where D and h are both in inches.

Figure 14.—Design drawing of mariotte-type, constant-rate injection apparatus.

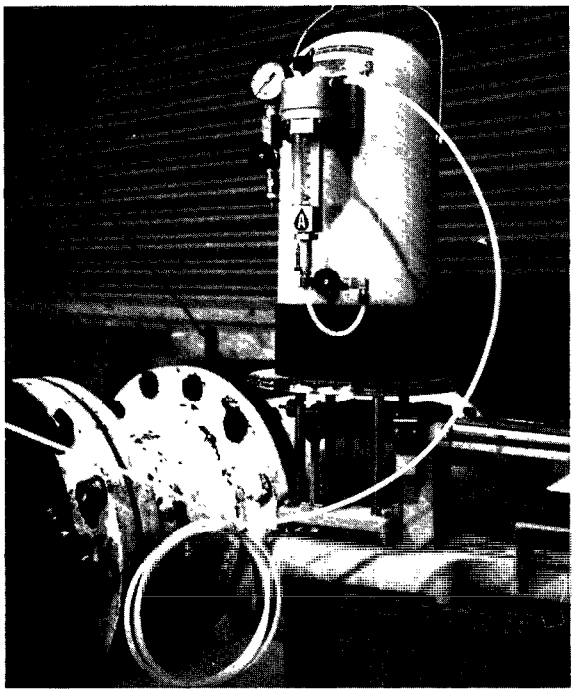


Figure 15.—Pressurized chemical-feed tank being used to inject dye into a pipeline. A laboratory balance measures the injection rate.

2. Air bubbles do not block the orifice or cause a change in rate by collecting in the discharge tubing. Air bubbles can be avoided by using warm water to prepare the dye solution and by shielding the vessel and tubing from sunlight.
3. Orifices and tubing with larger diameters are used, yielding fairly high injection rates and thus transporting dirt and bubbles with less chance of blockages. A minimum injection rate of about 60 mL/min is recommended. Figure 14 shows that, by using a uniform clear plastic cylinder to construct the mariotte vessel on the right, the cylinder can be graduated and injection rates measured by observing change in volume with time. Figure 10 shows this procedure being done with a graduated cylinder.

Chemical-feed devices

Many types of chemical-feed devices are in use to inject chemicals into water and wastetreatment systems. Most operate on 110 volts

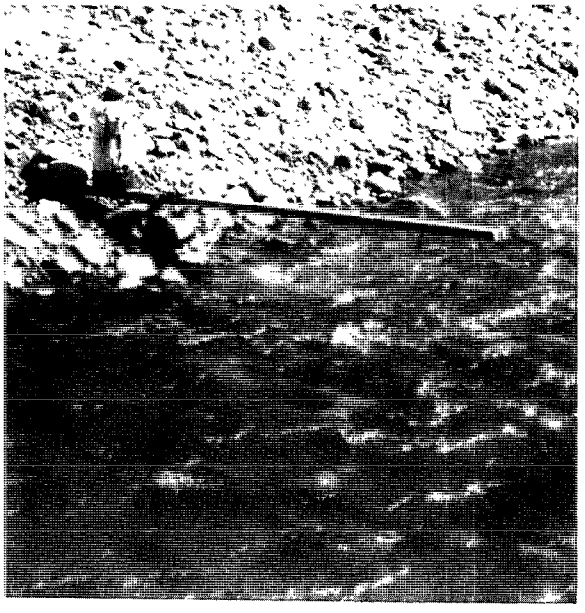


Figure 16.—Single-point, midchannel dye injection from a chemical-feed tank.

and are unsuited for field use. Figures 15 and 16 show a fiberglass chemical-feed tank powered by air pressure that was designed originally to inject chlorine into remote water supplies like those at parks. Such tanks have been used with some success for the constant-rate injection of dye solutions. The main disadvantage of the equipment has been the problem of keeping the rate controller clean. The device must be thoroughly flushed after each use and the controller unit dismantled and cleaned after several uses. The unit is powered by air pressure, and certain safety precautions must be observed. The advantages of the unit are reliable constant-rate injection and the capability of injecting under pressures up to 50 lb/in^2. This feature is particularly valuable when injecting into a pipeline, as illustrated in figure 15; in this figure, the injection rate is shown being measured with a laboratory balance by observing the change in weight of the dye solution with time.

Performance

A schematic diagram of the performance of a constant-rate dye-dilution measurement is

shown in figure 17. The steps in performing such a measurement use the example shown.

Selection of measurement reach (1)

The stream discharge, mean velocity, and geometry are estimated; using equation 4, an optimum reach length of 700 ft is computed. If there is any question of gain or loss of flow in the stream, or if stage is changing rapidly, an injection is made about 700 ft upstream of the gage and the samples taken close to it.

Background samples (2)

One or two stream background samples are taken before handling dyes and injection equipment.

Dye preparation, injection, and sampling (3)

For an estimated streamflow of 40 ft^3/s, figure 9 shows that an injection rate of about 35 mL per minute of a 2.0×10^7 μg/L (2-percent) solution should yield a plateau concentration of about 10 μg/L. Referring to table 3, a 2-percent bulk solution could be prepared by mixing those quantities of water and dye shown in columns 2 and 3, line 7. For a single measurement, just the quantity of solution needed would be preferable. Referring to line 4, column 5, of table 4, it would be convenient to use a 2.38×10^7 μg/L solution with an injection rate of about 30 mL per minute. Thus 1,000 mL would allow injection for 33 minutes. That is usually sufficient on most small streams, but if more time were needed, a 2,000-mL cylinder could be used, adding two 100-mL bottles of dye rather than one, to obtain the necessary dye concentration.

The injection solution is prepared by first emptying a 100-mL bottle of dye into the 1-L cylinder and adding stream water until a total volume of 1,000 mL is obtained. Before topping off the graduated cylinder with river water, it is a good practice to rinse the bottle that had contained the dye with river water, emptying it several times into the cylinder. Then the cylinder should be carefully filled to the 1,000-mL mark. Precision of measurements at this time will make it unnecessary to prepare standards from a sample of this solution, although a sample should be retained in the event it is needed. The dye mixture in the cylinder should be thoroughly mixed and allowed to stand for a few minutes.

The intake line to the pump is secured inside the graduated cylinder to reach nearly to the bottom. The plastic discharge line leading from the pump should be positioned and secured where the injection will enter what is judged to be the centroid of flow. The pump is turned on and set to a rate of about 30 mL/min. At the end of the injection—after steps (4) and (5)—a sample of injected solution should be bottled, labeled, and stored separately from the stream samples.

Measurement of injection rate (4)

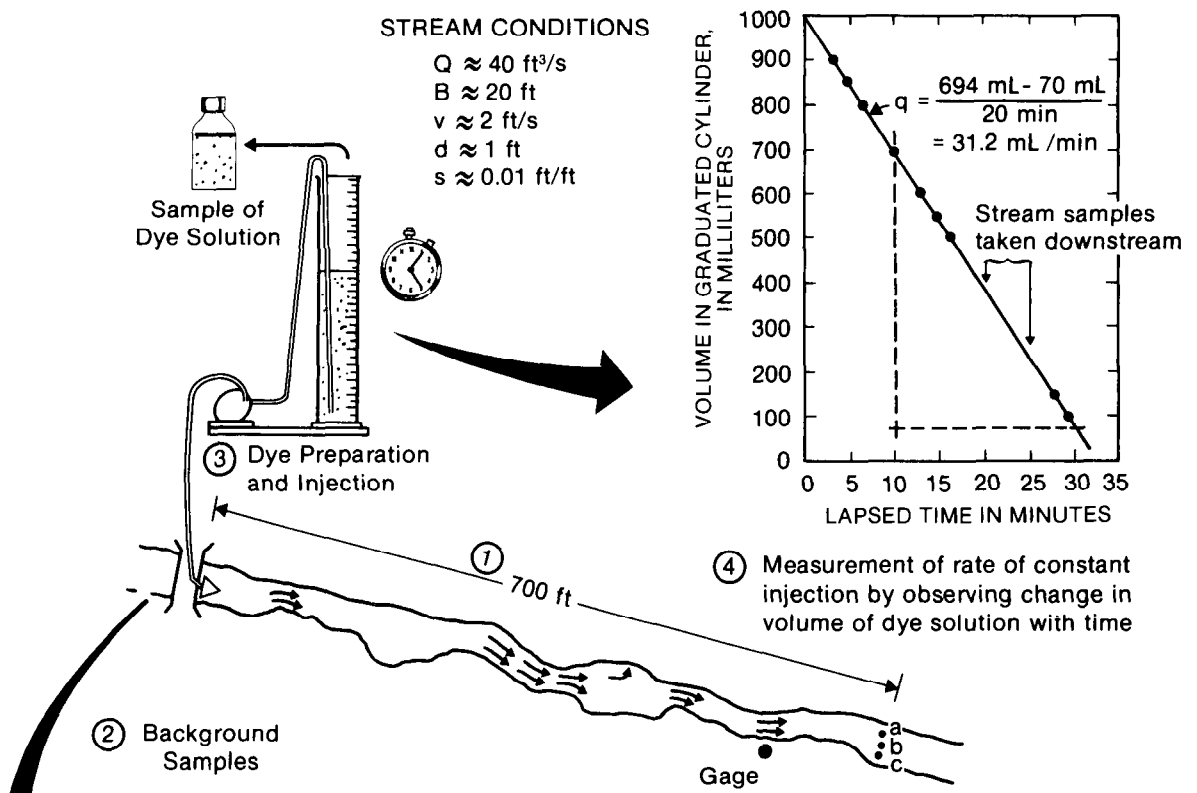
As soon as the injection rate has stabilized, the change in the volume of dye-solution level in the cylinder should be timed with a stopwatch. The watch is not stopped, but the time and volume are observed simultaneously several times before and after stream samples are collected downstream. These volumes are plotted versus time and the rate determined from the slope of the line as 31.2 mL/min.

Sampling the plateau (5)

In contrast to the slug-injection method, immediate and complete sampling of the dye downstream is neither necessary nor desirable. The injection must be maintained at a constant rate long enough for plateau concentrations to be fully established laterally across the channel and with time. The best practice is to inject longer and sample later than is likely needed. Sampling should, of course, be done toward the end of the injection but before its termination.

Stream samples containing the diluted dye should be taken at a minimum of three points across the flow at the sampling section (labeled a, b, and c in fig. 17). Additional sampling points may be advisable if the channel is wide and shallow, or if mixing is thought to be less than optimum.

All samples should be sealed, labeled with the stream name, sampling location and time, and stored out of direct sunlight. Notes describing the measurement should be retained with the samples and sent with them to the laboratory.



⑥ Fluorometric Analysis

	Samples, type, and location (1)	Lapsed time (min) (2)	Fluorometer Readings Scale I (3)	Scale II (4)	Scale III (5)	Scale IV (6)	Net readings r (7)	Avg at section $\bar{r}$ (8)	Concentration in stream, $\bar{c}$ (µg/L) (9)
1	Stream Background	0			0 2				
2	Stream Background	0			0 2				
3	Pt a	20			48 7		48 5		
4	Pt b	20			49 0		48 8	48 5	10 62
5	Pt c	20			48 5		48 3		
6	Pt a	25			48 6		48 4		
7	Pt b	25			49 1		48 9	48 6	10 63
8	Pt c	25			48 6		48 4		
9	Standard 8 µg/L	Lab			36 6		36 5		
10	Standard 10 µg/L	Lab			45 6		45 5		
11	Distilled Water	Lab			0 1				

⑦ Computation of Discharge

$$Q = 5.89 \times 10^{-7} \, q \frac{C}{\bar{c}}$$

At 20 minutes . $Q = 5.89 \times 10^{-7} (31.2) \left[\frac{2.38 \times 10^{7}}{10.62} \right] = 41.2 \text{ ft}^3/\text{s}$

At 25 minutes . $Q = 5.89 \times 10^{-7} (31.2) \left[\frac{2.38 \times 10^{7}}{10.63} \right] = 41.1 \text{ ft}^3/\text{s}$

Figure 17.—Schematic diagram of the performance of a constant-rate dye-dilution discharge measurement.

Fluorometric analysis (6)

Assuming that c values at sampling points a, b, and c will be on the order of 10 μg/L, standards in that concentration range are required. A working solution of 100 μg/L should be prepared from the dye lot used and stored for future use. Thus, according to lines 9c and 10c of table 2B, standards of 8 and 10 μg/L are prepared by mixing 50 mL of 100-μg/L solution in each of two containers containing 575 mL and 450 mL of distilled water, respectively. The 8- and 10-μg/L standards and a background sample of the distilled water used in their preparation are placed in sample bottles similar to those used for collecting field samples. All stream samples, stream background, standards, and distilled-water background samples are brought to a common temperature—68°F in the example. All samples are analyzed on one fluorometer scale.

The net dial readings for the 8- and 10-μg/L standards are plotted on the existing fluorometer calibration after subtracting the dial readings for the distilled water sample. If the readings do not plot exactly on the established calibration curve, a new curve is drawn through the two points for that scale parallel to the original calibration (see fig. 7). The primary reason for the shift from the original calibration curve is the difference in sample temperature from that used in the original calibration. The net dial readings for the stream samples are averaged, and, using the new calibration curve, the net concentrations of the stream samples for each set are determined, as shown in column 9 of figure 17. In this case, an average plateau concentration, $\bar{c}$, of 10.62 and 10.63 μg/L was obtained for the sets taken at 20 and 25 minutes.

Computation of discharge (7)

Based on the data presented and using equation 9, the discharge may be computed as

$$Q=5.89\times10^{-7}(31.2)\left[\frac{2.38\times10^{7}}{10.62}\right]=41.2\ \text{ft}^3/\text{s}$$

for the samples taken 20 minutes after the start of injection and 41.1 cubic feet per second for samples taken after 25 minutes.

Discussion

The example of a constant-rate dye-dilution measurement has been kept rather simple. Frequently, those attempting to apply the method for the first time will overly complicate the procedures. The use of fluorometers in the field, either to analyze individual samples or in a pump-through mode such as is done in time-of-travel studies, is discouraged. Aside from the added labor involved, most fluorometers are not sufficiently accurate under field conditions. Suspended sediment and varying sample temperatures are sources of error not acceptable for a discharge measurement.

Estimation of the mixing length and selection of sampling time are critical. In practice, three samples taken laterally are a minimum; five are advisable, especially if the stream is wide and the flow is shallow. Similarly, in the example cited, sampling at 1,000 ft would be advisable if there were any question regarding the adequacy of mixing length. For a 1,000-ft distance, samples might need to be taken at 30 minutes or later, and the injection continued as necessary.

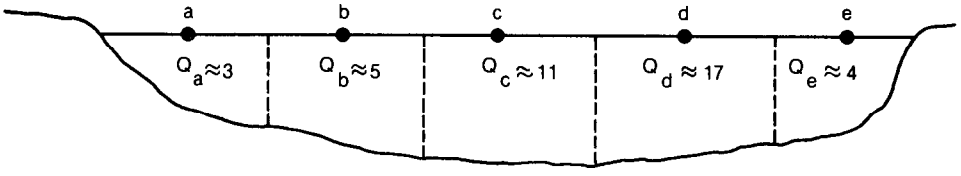
It is not possible to inject too long or to sample too late, assuming that in the latter case the rate is constant. Figure 3 shows that if samples are taken too soon, the concentrations along one or both banks will be measured prematurely, yielding low values compared to the correct plateau concentrations. Thus the computed discharge would be high. This might suggest loss of dye when in reality sampling was done too soon. Similarly, this much variation in concentration laterally might suggest poor mixing, whereas waiting longer to sample would have revealed good mixing. Thus it is emphasized that injection should be long enough and sampling late enough to ensure that what is being measured is a fully developed concentration plateau across the stream and with time.

In the example, the concentration of the injection solution was chosen for a discharge estimated at 40 ft^3/s. Had the discharge actually been 60 ft^3/s, the stream samples would have had a concentration of about 7 μg/L. Such concentrations are more than adequate for an accurate measurement. All samples are best ana-

lyzed on the same scale of the fluorometer; an additional standard of about 7 μg/L would have been desirable. For convenience, a 6-μg/L standard could be prepared, working from line 11c of table 2B.

Measurements with less than optimum mixing

The nearly identical concentrations observed at 700 ft in the previous example indicate that mixing is adequate and the mixing distance probably optimum. If a reach length of 400 ft had been chosen, mixing probably would not have been as complete. As a further example, it is assumed that the flow at the 400-ft sampling section is distributed as shown in figure 18 and that dye concentrations at a through e are fully stabilized with time as shown. Equation 2 is predicated on c as a measure of the dilution throughout the flow section, which is not the case at this short distance. If data reveal that



Cross-section and approximate discharge distribution at 400 feet

Location of samples taken at section 400 feet downstream (1)	Fluorometer reading for stream samples (2)	Stream background reading (3)	Net reading (4)	Estimated portion of total discharge (5)	Product of columns 4 and 5 (6)
Pt a	32.2	0 2	32.0	3	96
Pt b	42.2	0.2	42.0	5	210
Pt c	58.6	0.2	58.4	11	642.4
Pt d	40 2	0.2	40.0	17	680
Pt e	37 4	0 2	37.2	4	148.8
Note: all readings on same fluorometer scale				$\Sigma = 40$	$\Sigma = 1777.2$

Arithmetic average = 41.9
From figure 7, $\bar{c}$ = 9 20 μg/L

Weighted average scale III reading for $\bar{c} = \frac{1777\ 2}{40} = 44.4$
From figure 7, $\bar{c}$ = 9.80 μg/L

$$Q = 5.89 \times 10^{-7} q \frac{C}{\bar{c}}$$

Using Arithmetic Average: $Q = 5.89 \times 10^{-7} (31\ 2) \left[\frac{2.38 \times 10^7}{9.20}\right]$ = 47.5 ft^3/s; 16 percent high*

Using Weighted Data: $Q = 5.89 \times 10^{-7} (31.2) \left[\frac{2.38 \times 10^7}{9.80}\right]$ = 44.6 ft^3/s, 8 percent high*

*Assuming 41.1 ft^3/s to be the correct discharge.

Figure 18.—Example of flow-weighting concentration data where mixing is poor.

mixing is not as good as desired (appendix A contains a computation of the percentage of mixing for this example), a more correct discharge can be computed if the concentrations at each lateral sampling point are discharge weighted. Thus it is a good practice to estimate and assign a proportion of the total flow to each sampling point and weight the data during the computation as shown in figure 18. Although the weighting procedure is recommended, it should not be used as a substitute for trying to select an adequate stream reach to produce optimum mixing.

Appendix B contains a form for the recording of field data, fluorometric analysis of samples, and computation of discharge using the constant-injection method incorporating the above weighting procedure. The data used in the figure 18 example are shown in a completed form to help the user.

As indicated, dilution-type measurements of discharge can be made where mixing is less than optimum if samples are flow weighted across the stream. This can also be accomplished by using a depth-integrating sediment sampler to obtain a number of equally spaced, vertically integrated samples across a stream, as is standard practice in sediment sampling (Guy and Norman, 1970). A single composite sample is analyzed to obtain $\bar{c}$. The number of verticals required will depend on the degree of mixing that has taken place at the sampling section and on the accuracy requirements for the discharge measurement. This method can be approximated by moving the integrating sediment sampler laterally at a constant speed at approximately middepth. These methods generally should not be used where mixing is less than 75 percent, as there is some subjectivity in getting depth-integrated samples.

The Use of Relative Concentrations

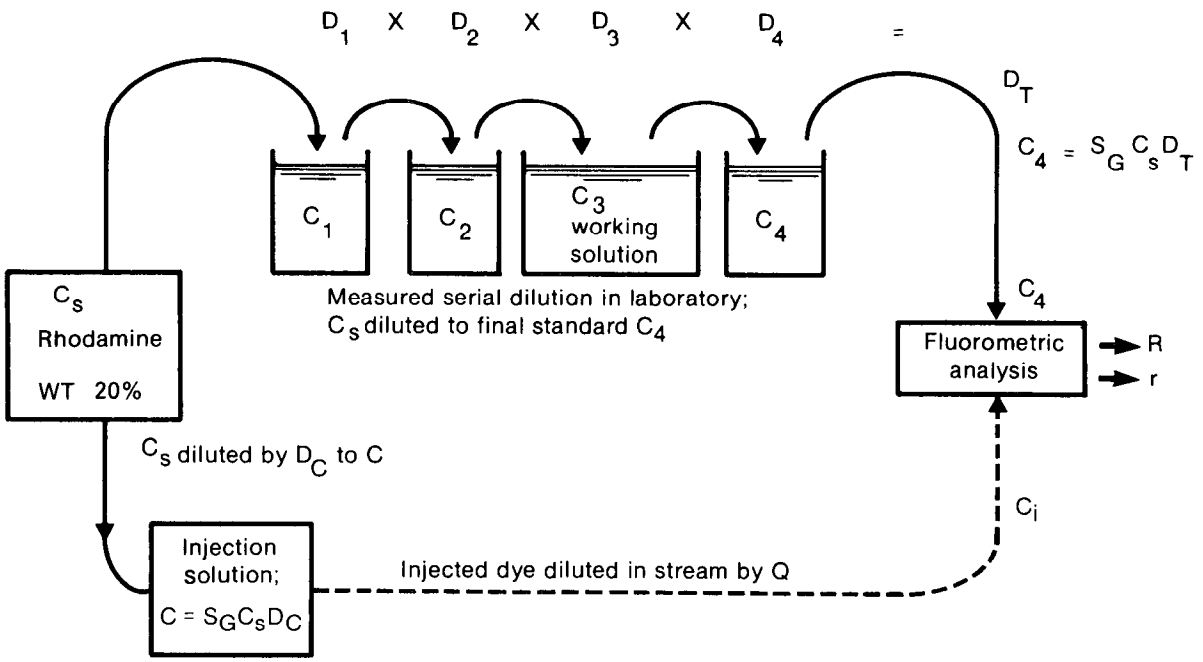
It is apparent from equation 9 that concentrations could be measured in any similar units, since C/c is a ratio—for example, fluorometer dial readings. Furthermore, if both river samples and standard samples are analyzed in an identical manner, certain potential errors may be canceled or lessened. This is one of the reasons for placing river samples and standards samples in identical bottles and allowing all samples to come to a common temperature. For the same reason, it is recommended that all samples be analyzed on the same fluorometer scale. As has been noted, the 8- and 10-μg/L standards were chosen to coincide closely with the concentrations expected for the stream samples. This was done to ensure that all samples would be analyzed on the same fluorometer scale, thereby lessening any errors that might occur by shifting from one fluorometer scale to another, as well as for simplicity. Similarly, the fluorometer calibration should be prepared from the same dye lot as used in the actual field test.

Two approaches to the use of relative concentration are presented; both have advantages and disadvantages as to simplicity and accuracy. Both use net fluorometer dial readings to evaluate the ratio $C/\bar{c}$ in the constant-rate dye-dilution discharge relationship, equation 9. Both require the computation and use of dilution factors. The first case requires the total dilution factor, D_T, necessary in reducing the manufacturer's stock solutions, C_s, down to a final standard solution and in the second case the single dilution factor, D_C, necessary in reducing C_s down to C, the concentration of the dye solution that was injected. The second case requires that the determination start with the injected solution rather than the manufacturer's solution. The schematic diagrams in figures 19 and 20 aid in understanding the concept and use of relative concentrations for computing the discharge where the constant-injection method is used. The examples in figures 19 and 20 use the data for the same example as that in figure 17. The use of relative concentrations and dilution factors may at first appear complex but, once understood, will simplify computational procedures and laboratory work involved in such measurements.

Relative concentrations based on stock solutions

All measurements start with the stock dye solution as supplied by the manufacturer, having a concentration C_s (see fig. 19). For

CONCEPTUAL DIAGRAM



EXAMPLE COMPUTATION

$$\frac{C}{C_4} = \frac{S_G C_s D_C}{S_G C_s D_T} = \frac{D_C}{D_T} \qquad C = C_4 \frac{D_C}{D_T}$$

Equation 9: $Q = 5.89 \times 10^{-7}\ q \frac{C}{\bar{c}}$

By substitution: $Q = 5.89 \times 10^{-7}\ q\left[\frac{C_4}{\bar{c}} X \frac{D_C}{D_T}\right]$

Since samples of C_4 and $\bar{c}$ are to be read on the same scale

$C_4 = kR$ and $\bar{c} = kr$, where k is a scale constant.

Therefore $Q = 5.89 \times 10^{-7}\ q\left[\frac{R}{\bar{r}} X \frac{D_C}{D_T}\right]$

From data in figure 17 and dilution factors in table 4, line 3, and table 2B, line 9:

$$Q = 5.89 \quad 10^{-7}\ (31.2)\left[\frac{45.5}{48.6} X \frac{10^{-1}}{4.20 \times 10^{-8}}\right] = 41.0\ ft^3/s$$

Figure 19.—Conceptual diagram and example of computations using relative concentrations and dilution factors originating with the manufacturer's stock dye solution.

rhodamine WT, this is 20 percent by weight. As seen in figure 19, C_s is usually reduced to some lesser concentration C for injection into the stream. As seen in column 4 of tables 3 and 4, based on the volumes of water and dye mixed, a precise dilution factor, D_C, may be computed using equation 7:

$$C_n = C_i S_G \left[\frac{V_d}{V_w + V_d}\right] = C_s S_G D_C$$

where

$$C_i = C_s \text{ and } \left[\frac{V_d}{V_w + V_d}\right] = D_C \ .$$

In the previous examples, a stock solution C_s of rhodamine WT 20 percent was reduced before injection to a C of 2.38×10^7 µg/L by combining 100 mL of dye with 900 mL of water (see table 4, line 4). Thus C_s was diluted by a factor, D_C, of 100/1,000 or 10^{-1}. The concentration in the stream $\bar{c}$ is then a function of the rate of injection of C and of its dilution by Q.

In preparing laboratory standards, a sample of C_s is reduced until a final concentration, C_4, is reached after a four-step serial dilution (see fig. 19). Thus, by this serial-dilution process, the standard C_4, the one tailored to closely match that expected in the stream, $\bar{c}$, is prepared from C_s as

$$C_4 = S_G C_s D_T$$

where D_T is the total dilution required and the product of the individual dilutions. In table 2B, the total dilution factor after four dilutions is shown in column 5. The total dilution factor for the 10-µg/L standard used in the previous example is

$$D_T = D_1 \times D_2 \times D_3 \times D_4$$

$$D_T = \left[\frac{30}{50+3792}\right]\left[\frac{20}{20+3500}\right]\left[\frac{20}{20+3500}\right]\left[\frac{50}{50+450}\right]$$

$$D_T = 4.20 \times 10^{-8}$$

and the final concentration, C_4, starting with rhodamine WT 20 percent is

$$C_4 = C_s S_g D_T = 20 \times 10^7 \times 1.19 \times 4.20 \times 10^{-8}$$

$$= 10 \mu g/L$$

as desired.

Using the net dial readings R and $\bar{r}$ in place of C and $\bar{c}$ in equation 9 and the appropriate dilution factors, the discharge may now be computed as

$$Q = 5.89 \times 10^{-7} q \left[\frac{R}{\bar{r}} \times \frac{D_C}{D_T}\right] \qquad (10)$$

and, using the example data provided in figure 17 and tables 2B and 4, the discharge may be computed as

$$Q = 5.89 \times 10^{-7} \times 31.2 \left[\frac{45.5}{48.6} \times \frac{10^{-1}}{4.20 \times 10^{-8}}\right]$$

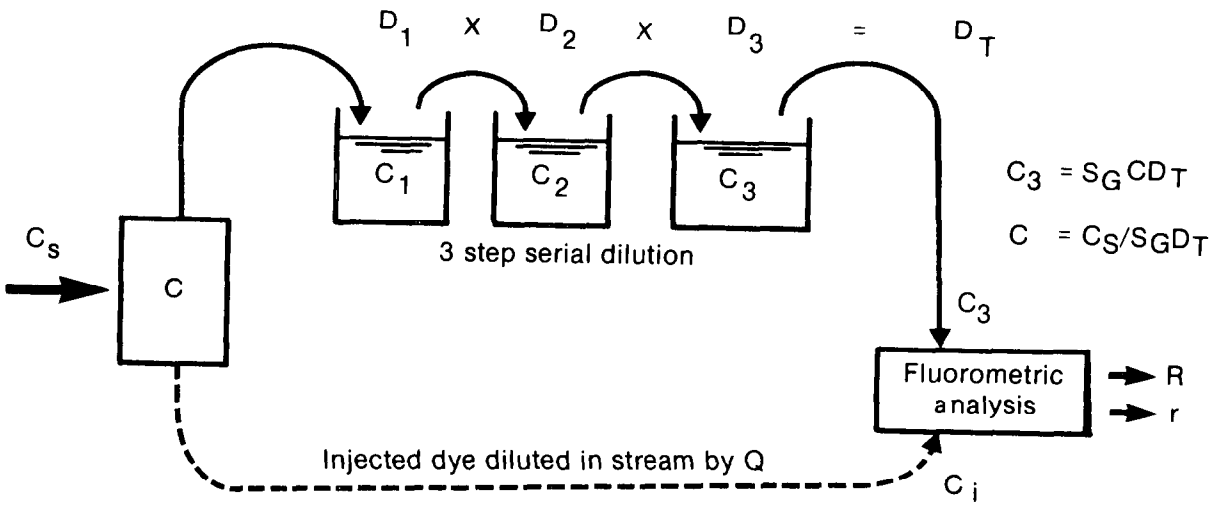
$$= 41.0 \text{ ft}^3/\text{s} \ .$$

Note that if C is selected as a concentration shown in column 1 or 5 of table 3 or 4, respectively, and if C_4 is chosen as one of those in column 4 in table 2B, the determination of the discharge is essentially a matter of determining the ratio of the fluorometer dial readings for the standard and the stream samples. The dilution factors, D_C and D_T, may be taken from tables 2B, 3, and 4 or any convenient tables the user might wish to develop. Certain precautionary measures must be taken in using this technique. All measurements and computations start with C_s and assume that the manufacturer's solution is well mixed and the same whenever quantities are taken from the container of a particular dye lot.

Relative concentrations based on injected solutions

A schematic diagram and an example of computations of discharge, using relative concentrations and dilution factors starting with the concentration, C, of the dye injected rather than C_s, are shown in figure 20. This method has the advantage of avoiding errors that might occur if the manufacturer's solution was not mixed each time dye was extracted, or if an

CONCEPTUAL DIAGRAM



COMPUTATIONS

Equation: $Q = 5.89 \times 10^{-7}\ q \frac{C}{\bar{c}}$

By substitution:

$$Q = 5.89 \times 10^{-7}\ q \left[\frac{C_3}{\bar{c}} \times \frac{1}{S_G D_T} \right]$$

Since samples of C_3 and $\bar{c}$ are to be read on the same scale.

$C_3 = kR$ and $\bar{c} = k\bar{r}$, where k is a scale constant.

Therefore

$$Q = 5.89 \times 10^{-7}\ q \left[\frac{R}{\bar{r}} \times \frac{1}{S_G D_T} \right]$$

Note: S_G is the specific gravity of C, not of rhodamine WT 20-percent.

If C is 1×10^7 µg/L or less, S_G will be less than 1.01 and can be ignored.

EXAMPLE: As in the example in figure 17: C = 2.38×10^7 µg/L
q = 31.2 mL/min
$\bar{r}$ = 48.6 net dial reading on scale III of the fluorometer
S_G = 1.02

Using table 5A, prepare a standard, C_3 = 10.34 µg/L (line 3c)
This standard yielded a net dial reading on scale III of 47.0
Thus the discharge is

$$Q = 5.89 \times 10^{-7} (31.2) \left[\frac{47.0}{48.6} \times \frac{1}{(1.02)\ (4.34 \times 10^{-7})} \right] = 40.1\ ft^3\ 3/s$$

Figure 20.—Conceptual diagram and example of computations using relative concentrations and dilution factors originating with the injected solution.

Table 5.—Convenient three-step serial-dilution combinations for the preparation of selected standards for selected dye-injection solutions; prepackaged solutions.

	Injection solution C in $\mu g/L \times 10^7$	Dilutions						Resulting conc. C_3 in $\mu g/L$	Resulting dilution factor, $D_T \times 10^{-7}$
		First		Second		Third			
		V_d	V_w	V_d	V_w	V_d	V_w		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1a	0.60	50	3000	20	2000	20	3000	6.45	10.75
b		50	3000	20	2000	20	2500	7.73	12.88
c		50	3000	20	2000	20	2000	9.64	16.07
d		50	3000	20	2000	20	1500	12.82	21.36
2a	1.19	50	3000	20	3000	20	3500	7.34	6.17
b		50	3000	20	3000	20	3000	8.56	7.19
c		50	3000	20	3000	20	2500	10.25	8.62
d		50	3000	20	3000	20	2000	12.79	10.75
3a	2.38	25	3000	20	3000	20	3500	7.40	3.11
b		25	3000	20	3000	20	3000	8.63	3.62
c		25	3000	20	3000	20	2500	10.34	4.34
d		25	3000	20	3000	20	2000	12.90	5.42
4a	4.76	20	3000	20	3500	10	2000	8.91	1.87
b		20	3000	20	3500	20	3500	10.18	2.14
c		20	3000	20	3500	20	3000	11.86	2.49
d		20	3000	20	3500	20	2750	12.93	2.72
5a	5.95	20	3500	20	3500	10	2500	7.65	1.29
b		20	3500	20	3500	10	2000	9.56	1.61
c		20	3500	20	3500	10	1750	10.91	1.83
d		20	3500	20	3500	10	1500	12.72	2.14
6a	7.14	20	3500	20	3500	10	3000	7.66	1.07
b		20	3500	20	3500	10	2500	9.18	1.29
c		20	3500	20	3500	10	2000	11.47	1.61
d		20	3500	20	3500	10	1750	13.10	1.83
7a	11.90	20	3500	10	3000	10	3000	7.46	0.627
b		20	3500	10	3000	10	2250	9.94	0.835
c		20	3500	10	3000	10	2000	11.18	0.939
d		20	3500	10	3000	10	1750	12.76	1.073

error was made in measuring the quantities of dye and water in preparing the injection solution. Thus the stream discharge could be determined if the absolute value of C was unknown but a sample of C was retained from each test. This is good practice regardless of the method of analysis. The fact that $C/\bar{c}$ is a ratio allows the comparison and measurement of $\bar{c}$ relative to C using dial readings and measured dilutions. Unlike the previous method in which a working solution of 100 $\mu g/L$ is prepared and retained for each dye lot (and, hence, only a single additional dilution, D_4, is required for a measurement), a three-step serial dilution of C must be done for each test where a different injection solution is used. This emphasizes the advantages of preparing a bulk quantity of dye solution of a single concentration, such as one of those in table 3, for a series of discharge measurements. The same would be true for the use of prepackaged dye quantities (such as in table 4); selection of a single dye concentration, C, for a series of measurements always lessens the laboratory work in preparing standards.

By starting with the injected solution, C, only a three-step serial dilution need be prepared to obtain a standard about equal to that expected in the stream for $\bar{c}$. Tables 5 and 6 provide convenient combinations of dye and water to yield a range of standards from about 7 to 13 $\mu g/L$ (column 8), which should be the range obtained in the field samples. Column 9

Table 6.—Convenient three-step serial-dilution combinations for the preparation of selected standards for selected dye-injection solutions; bulk solutions.

	Injection solution C in $\mu g/L \times 10^7$	Dilutions						Resulting conc. C_3 in $\mu g/L$	Resulting dilution factor, $D_T \times 10^{-7}$
		First		Second		Third			
		V_d	V_w	V_d	V_w	V_d	V_w		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
8a	0.1	50	3000	50	1000	20	2000	7.73	77.29
b		50	3000	50	1000	20	1750	8.82	88.21
c		50	3000	50	1000	20	1500	10.27	102.71
d		50	3000	50	1000	20	1000	15.31	153.07
9a	0.2	50	3000	50	2000	20	2000	7.92	39.59
b		50	3000	50	2000	20	1750	9.04	45.18
c		50	3000	50	2000	20	1500	10.52	52.61
d		50	3000	50	2000	20	1250	12.59	62.97
10a	0.4	50	3000	50	3000	20	1500	14.14	35.36
b		50	3000	50	3000	20	1750	12.15	30.37
c		50	3000	50	3000	20	2000	10.64	26.61
d		50	3000	50	3000	20	2500	8.53	21.33
11a	0.6	50	3000	20	2000	20	3000	6.45	10.75
b		50	3000	20	2000	20	2500	7.73	12.88
c		50	3000	20	2000	20	2000	9.64	16.07
d		50	3000	20	2000	20	1500	12.82	21.36
12a	0.8	50	3000	20	2000	20	3000	8.60	10.75
b		50	3000	20	2000	20	2750	9.38	11.72
c		50	3000	20	2000	20	2500	10.31	12.88
d		50	3000	20	2000	20	2000	12.86	16.07
13a	1.0	50	3500	20	3000	20	2500	7.40	7.40
b		50	3500	20	3000	20	2000	9.24	9.24
c		50	3500	20	3000	20	1750	10.54	10.54
d		50	3500	20	3000	20	1500	12.27	12.27
14a	1.5	50	3500	20	3000	20	3500	7.95	5.30
b		50	3500	20	3000	20	3000	9.27	6.18
c		50	3500	20	3000	20	2500	11.10	7.40
d		50	3500	20	3000	20	2000	13.85	9.24
15a	2.0	50	3500	20	3500	10	2000	7.96	3.98
b		50	3500	20	3500	20	3500	9.09	4.55
c		50	3500	20	3500	20	3000	10.60	5.30
d		50	3500	20	3500	20	2500	12.70	6.35
16a	3.0	25	3500	20	3000	20	3500	8.01	2.67
b		25	3500	20	3000	20	3000	9.33	3.11
c		25	3500	20	3000	20	2500	11.18	3.73
d		25	3500	20	3000	20	2000	13.95	4.65
17a	4.0	25	3500	20	3500	10	2000	8.02	2.00
b		25	3500	20	3500	20	3500	9.16	2.29
c		25	3500	20	3500	20	3000	10.67	2.67
d		25	3500	20	3500	20	2500	12.79	3.20
18a	5.0	20	3500	20	3500	10	2000	8.03	1.61
b		20	3500	20	3500	20	3500	9.17	1.83
c		20	3500	20	3500	20	3000	10.69	2.14
d		20	3500	20	3500	20	2500	12.81	2.56
19a	10.0	20	3500	20	3500	10	3750	8.59	0.859
b		20	3500	20	3500	10	3500	9.20	0.920
c		20	3500	20	3500	10	3000	10.73	1.07
d		20	3500	20	3500	10	2500	12.86	1.29

in tables 5 and 6 provides the total dilution factors, D_T, for whatever concentration is used. Following the diagram in figure 20, it can be seen that the standard, C_3, is equal to $S_G C D_T$. Thus, $C=C_3/S_G D_T$ and the discharge equation, substituting net dial readings for concentrations, is

$$Q=5.89\times10^{-7}\,q\left[\frac{R}{\bar{r}}\times\frac{1}{S_G D_T}\right] . \qquad (11)$$

As an example, the same test conditions as those previously used and presented in figure 17 are assumed, except that now a three-step serial dilution of C must be performed. Referring to table 5, a convenient serial dilution combination for the case where $C=2.38\times10^7$ μg/L is found on line 3c (for $C_3=10.34$), since the injection rate for the estimated stream discharge was chosen to produce a plateau concentration of about 10 μg/L (fig. 9). A standard, C_3, is analyzed on the fluorometer on scale III at the same time the field samples are analyzed. This sample gives a dial reading of 47.2 for a net of 47.0 (the stream background was 0.2). Thus for the stream samples taken at 25 minutes after the start of injection and having an average dial reading, $\bar{r}$, of 48.6, the discharge may be computed as

$$Q=5.89\times10^{-7}\times31.2\left[\frac{47.0}{48.6}\times\frac{1}{(1.02)4.34\times10^{-7}}\right]$$
$$=40.1\ \text{ft}^3/\text{s} .$$

The dilution factor, D_T, was picked from column 9, line 3c of table 5 for the standard chosen. Note that in tables 5 and 6, the first two dilutions for any one concentration, C, are the same. Thus the second dilution may be treated as a working solution. If the 10.34-μg/L standard was not close to that experienced in the stream (R did not approximately equal $\bar{r}$), another standard could be prepared quickly, starting with the second dilution.

This method must be considered the most accurate of those presented, because only a three-step serial dilution of C is involved. Any error in preparing the injection solution is eliminated, and fluorometer dial readings are used directly without recourse to calibration curves.

Appendix B contains a form for recording field sampling, fluorometer analysis, and calculation of discharge using the constant-injection method. It incorporates the use of relative concentrations, dilution factors, and discharge weighting. Provision is made for sampling as many as five locations laterally across a flow section; however, on narrow well-confined flows, three sampling locations are usually sufficient unless the adequacy of mixing is suspect. Appendix B also contains a completed form using the data for the example measurements illustrated in figures 17 and 19 where relative concentrations are used.

Mixing Length

The mixing length equation, equation 4, can be rewritten as

$$L_m=K\frac{vB^2}{E_z} \qquad (12)$$

where the variables are as previously defined, except that K is a variable with a value dependent on the degree of mixing, the location of injection and the number of injections. The degree of mixing is a measure of the degree to which a tracer is mixed in the flow; the higher the percentage, the more nearly are the concentrations the same laterally. Appendix A shows the recommended method of computing percentage of mixing.

The value of K of 0.1 given in equation 4 is for 95-percent mixing with a single-center injection at midstream. Coefficients, K, for other conditions are given in table 7.

The effect of injecting tracer at n points, where each injection is at the center of flow of each n equal-flow segment, is that the tracer has to mix throughout an equivalent width of about (1/n)B. Because B is squared in the mixing length equation, the value of K for a single-point injection is modified by the factor $(1/n)^2$.

Injection at the side of a channel is equivalent to an injection into a stream with a width of 2B. Because B is squared, the coefficient K must be increased by a factor of 4.

Table 7.—Values for coefficient, K, for different degrees of mixing and numbers and location of injection

Number and location of injection points	Coefficient, K Percentage mixing		
	90	95	98
One center injection	0.070	0.100	0.140
Two injection points [a]	0.018	0.025	0.035
Three injection points [b]	0.008	0.011	0.016
One side injection point	0.280	0.400	0.560

[a] For an injection made at the center of each half of flow.

[b] For an injection made at the center of each third of flow.

Where the mixing length must be shortened, it is best to inject at two or three points in the cross section. A line injection is not recommended, with the possible exception of canals where very uniform flow exists across the section (see fig. 21). If the injection rate from a line source is not proportional to the flow at each point across the section, the use of a line source may actually increase the mixing distance.

Equation 12 is for an injection in the center of each flow segment and for a fairly uniform channel. If the injection is not in the center of flow, the theoretical mixing distance will be increased. The equation for mixing provides only an estimate of mixing length. Experience at a site may indicate a very different mixing distance. From a practical and theoretical standpoint, the narrower and deeper the flow, the shorter the channel length required for mixing. Thus, mixing length may change with stage; a flood flow that fills the channel may require a significantly greater channel length than a lower flow because of higher velocity and greater width. However, the effect of increased depth partly offsets this difference.

A common fallacy is that shallow, turbulent whitewater streams produce rapid mixing. Turbulence is effective in yielding rapid vertical mixing, but unless there is substantial depth, lateral dispersion occurs gradually and the mixing length may be quite long.

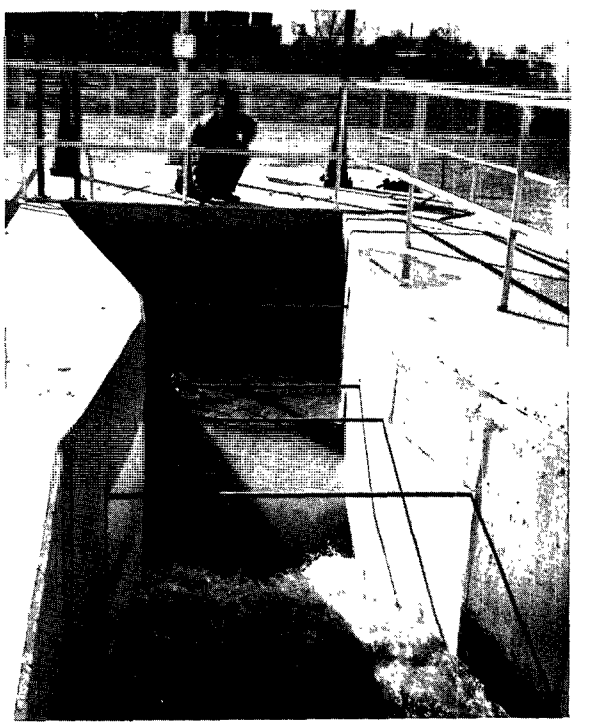


Figure 21.—Multiple dye injection in the approach to a Parshall flume; not visible is dye-injection pump, which preinjects dye into a hose line from a domestic water supply. Eight samples taken across the channel about 10 ft below the hydraulic jump in the bottom of the picture yielded good results.

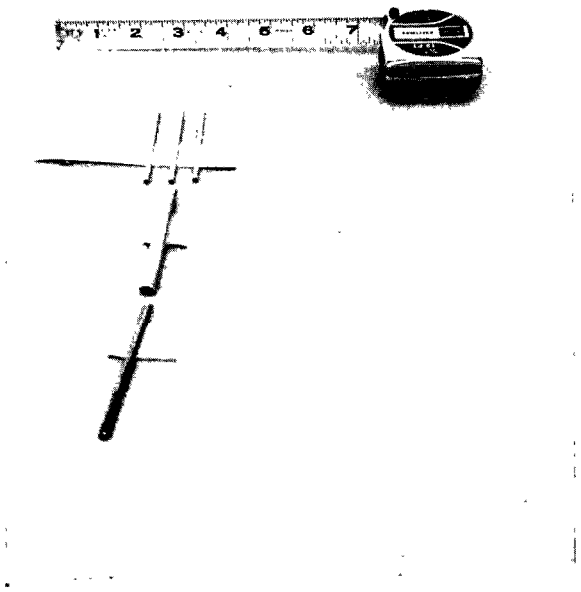


Figure 22.—Tubing used in the fabrication of a one-to-three manifold for multiple injection of dye.

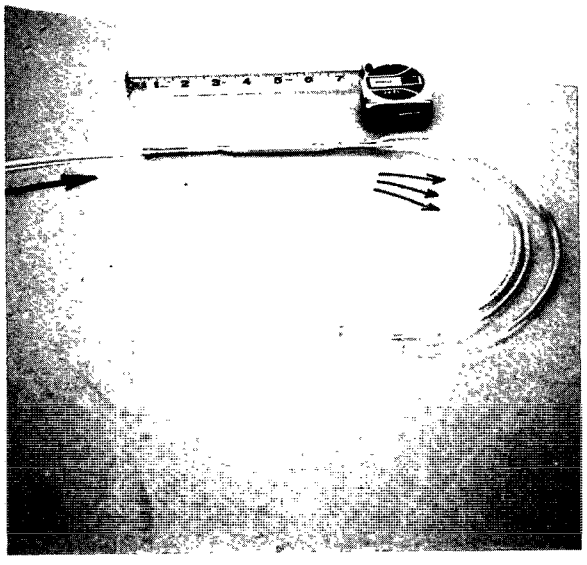


Figure 23.—Fabricated manifold for three-point multiple dye injection; the three lengths of tubing should be equal to produce three equal injection rates.

Mixing in pool-and-riffle streams sometimes occurs in relatively short distances, although the time to reach an equilibrium plateau (in the case of a constant-rate injection) should not be underestimated. Streams with deadwater areas or shallow side flows should be avoided; such conditions produce the long, attenuated tracer clouds requiring long injection times.

For further information on mixing, see Yotsukura and Cobb (1972).

Injection Schemes

In most cases, a single-point injection of dye is used. The injection line may ordinarily be placed over the flow with no difficulty, as shown in figure 16. In somes instances, however, excessive stream width or depth and flow velocities or the lack of bridges may make proper placing of the injection line difficult. If the station is one where dye-dilution measurements are to be made repeatedly, it may be worthwhile to install a permanent apparatus. Figure 13 shows a 5-gal can mariotte vessel positioned over a stream by use of a light cable and trolley. In this instance, the injection rate is measured volumetrically several times with a 100-mL graduated cylinder and stopwatch before allowing the mariotte vessel to roll out over the stream. A light rope is secured to the vessel for recovery.

Where a pump is used, the injection line may be permanently secured over the stream by attaching it to a cableway, running it through a pipe, or attaching it to the underside of walkways and bridges. In each case, the pump is attached to the line for injection and, upon completion of the measurement, a solution of alcohol and water is flushed through both the pump and line.

Multiple injection may be desirable in wide channels with shallow flow or where rapidly varying flow is to be measured and mixing lengths are to be minimized. If a multiple-injection scheme is needed, multiple lines may be permanently located to distribute the dye injection in approximate proportion to the flow. Figures 22 and 23 show the fabrication of a one-to-three tube manifold device to permit a three-point injection from a single injection source. The manifold consists of three equal lengths of 1/16-in-diameter thin brass tubing nested and soldered inside a 3/8-in section of

brass tubing. A 1/8-in piece of copper tubing is soldered into the other end of the 3/8-in tubing to receive the discharge tube from a pump. Three plastic lines of equal length are led to the stream for positioning over the flow.

Another approach involves the preinjection of the dye into a larger line leading to a sprinkler line. In figure 21, a sprinkler line consisting of a perforated rigid pipe is placed over the approach of a Parshall flume. Unchlorinated tap water from a domestic hose line is fed to the pipe; dye has been preinjected into the hose, permitting it to mix with the larger flow of tap water before discharging through the sprinkler. An injection pump or chemical-feed device capable of injecting under pressure is necessary. The injection rate is calculated by measuring volume or weight change with time, as discussed previously.

A sprinkler-type system across the flow should not be used to shorten the mixing distance unless the flow is fairly evenly distributed across the channel. If the flow is not evenly distributed, use of a sprinkler system may actually increase the mixing distance.

Dye Losses

The section on theory discusses the principles involved in performing slug and constant-rate dye-dilution discharge measurements. Experience shows that measurement errors are often falsely attributed to dye losses. As can be seen from equation 9, a dye loss would produce a low value for $\bar{c}$, and the computed discharge would be high. In many instances, failure to inject long enough or sampling too soon results in low values of c, particularly along the stream banks (see fig. 3). Using a sufficiently long injection and waiting long enough to sample will permit the slowly developing plateaus along the banks to stabilize. Dye losses do occur, but the above cautions need to be emphasized.

Real dye losses occur where excessively long stream reaches are involved; where there is finely suspended sediment, particularly clay or flocculent organic particles; and where chemicals like chlorine oxidize or quench the dye. To avoid quenching, measurements should not normally be made on streams having a pH less than five (Smart and Laidlaw, 1977). Where a low pH does exist, the use of pontacyl pink dye is advisable. Dye losses have also been noted on very turbulent streams. The high oxygen levels may oxidize the dye in the same way that chlorine does.

If the stream to be measured may contain substances that can cause a dye loss, a gallon of the stream water should be obtained for laboratory use in preparing a standard to be compared with a duplicate one prepared from distilled water. The laboratory work must be done promptly, because the chemistry of the river water may change if it is stored too long. A stream-water standard may be prepared in the field at the time of the dye test if a 100-µg/L working solution for the dye lot is available.

The preparation of a complete set of standards from stream water with the objective of cancelling any reactions that may be taking place in the stream is to be discouraged. Normally, it is difficult to replicate reactions between dye and stream water in a bottle. Standards should provide absolute values without the uncertainty inherent in using water that may produce unpredictable results.

Adhesion of the dye to particle surfaces does not appear to take place immediately. In special situations, dye losses from adhesion on fine sediment have been avoided by immediate filtration of the samples to minimize the exposure of the dye to particles.

Tests by Rathbun (USGS, written communication, 1983) indicate that significant losses of rhodamine WT may occur where diluted concentrations are exposed to direct sunlight for several hours. Thus, excessive reach lengths, like those used in time-of-travel studies, may result in significant photochemical decay of rhodamine WT dye. Most exposure times for dye-dilution discharge measurements are short enough that photochemical decay losses are not a problem.

Special Measurements

Beneath ice

The measurement of discharge in ice-covered streams by conventional current-meter methods is laborious and often of questionable accu-

racy. On small streams, the dye-dilution method of measuring discharge is particularly useful under such conditions because it does not depend on measurement of either the flow area or velocity.

Site preparations

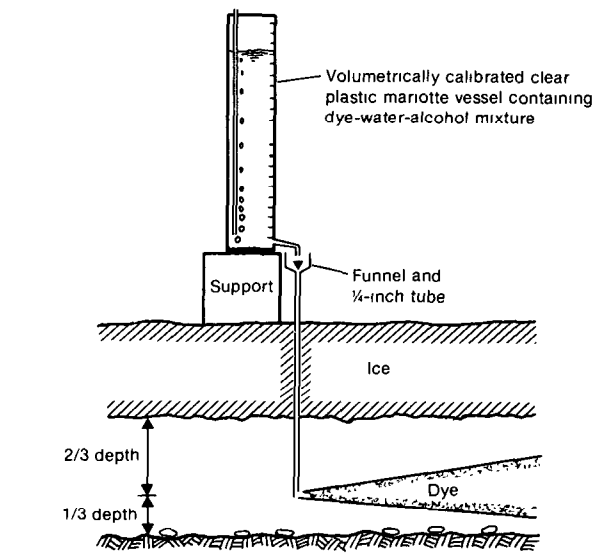
For most small streams, a single, midchannel dye injection is sufficient. Preparations, including selection of the reach length, are the same as the criteria discussed in the earlier section for the slug-injection test. Equation 4 can be used to estimate the mixing length; the deeper and narrower the channel, the better.

Unlike open-channel, current-meter flow measurements, selection of the channel reach is not limited by availability of bridges; a firm ice cover will permit ready access to the stream for placing equipment and selecting the injection and sampling sites. Unlike current-meter measurements beneath ice, only very small holes need be drilled through the ice for injection and sampling. A single 1/2-in-diameter hole through the ice in the centroid of the flow is used for the injection. It may be necessary to drill several exploratory holes to find the main flow. It is well to select a measurement reach before freezeup. The injection line may be supported beneath the ice by inserting it inside a 3/8-in-diameter metal or plastic tube. This tube will usually vibrate when projected into the main flow and this can be used as a guide in selecting the centroid of flow. As shown in figure 24, the dye-injection line should be positioned well beneath the ice but clear of the streambed. Slush ice conditions immediately downstream from the injection should be avoided.

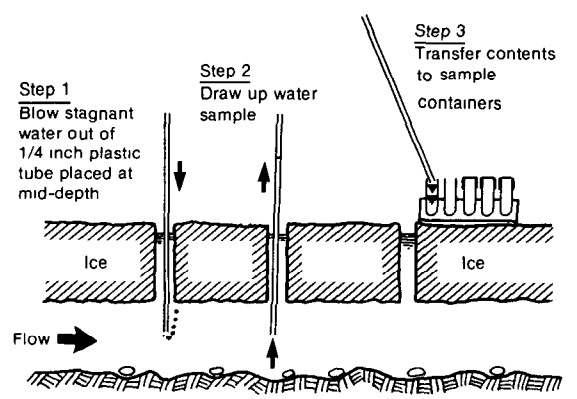
Three to five small holes should be drilled across the channel at the section chosen for sampling. An ordinary carpenter's brace and long auger wood bit may be used to cut the small holes through the ice. The spiral helps to remove ice cuttings (see figs. 25 and 26). Grinding off the small starting tip of the wood bit makes it more suitable as an ice auger. Because of the smallness of the holes, they may have to be marked with rocks or sticks to be readily located when needed. Too small a hole may cause drill freezeup, and the hole itself is apt to freeze back before it can be used.

Tracer preparation and injection

For a constant-injection test, the amount of tracer needed should be calculated from the estimated discharge and the graph in figure 9. The constant-injection type of test is recommended for measurements beneath ice. Rhodamine WT dye 20-percent solution as received from the manufacturer has a specific gravity of approximately 1.19. Normally, this solution is mixed with water in amounts such as shown in tables 3 and 4. When performing dye-dilution measurements under freezing conditions, the addition of antifreezing agents such as methanol alcohol or glycol is mandatory if the



(A) Injection system for measurement beneath ice



(B) Method of "pipetting" water samples from under the ice

Figure 24.—Dye-dilution discharge measurement under ice cover.

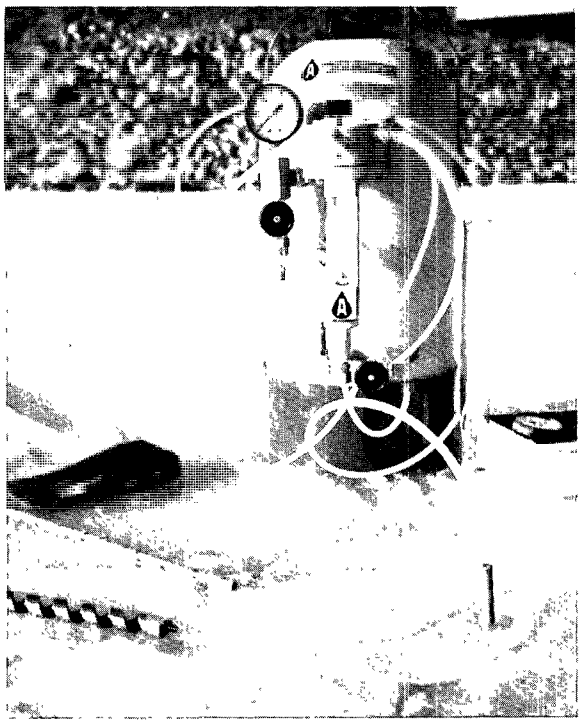


Figure 25.—Dye injection under ice cover, using a chemical-feed tank. An auger is used to drill holes through the ice and a tube is used to draw background samples from under the ice before injection.



Figure 26.—Sampling under ice cover as part of a dye-dilution discharge measurement; an auger is used to drill three to five holes through the ice across the channel at a suitable distance downstream from the injection, and a tube is used to draw samples.

small injection rates used are not to be interrupted or altered by solution freezeup. Automobile-type antifreeze should not be used because it frequently contains sealers and rust inhibitors that may clog the injection apparatus. Methanol alcohol is recommended for addition to dye-water solutions because it has a specific gravity of 0.80 and, if added in equal proportions to the dye, will yield essentially a neutrally buoyant mixture. Figure 27 shows the amount of alcohol to be used for a given temperature. The sum of the water and alcohol should equal the volumes of water shown in column 2 of table 3 or the total volume of water-dye mixture in column 3, table 4. Unless a neutrally buoyant solution is used or the injection solution is below 2 percent concentration, the injection rate should not be determined by weighing; volumetric-displacement methods should be used, if possible.

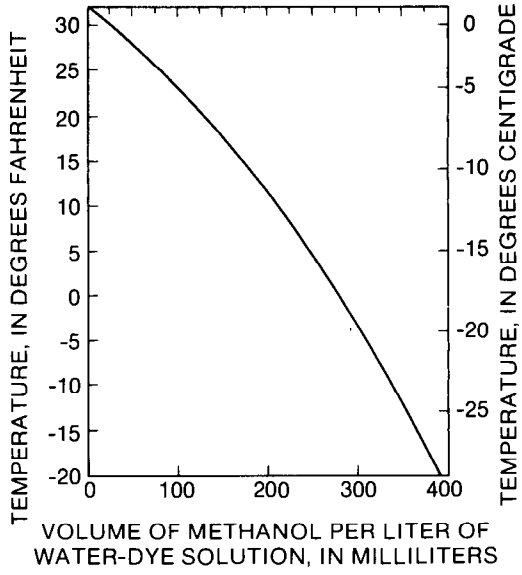


Figure 27.—Proportions of methanol alcohol and water-dye solution needed to prevent freezing of mixtures at selected temperatures.

Dye injection using the constant-rate pump for withdrawing the dye solution from a graduated cylinder is recommended. The backpack enclosure shown in figures 11 and 12 is suggested, for it protects the equipment from freezing winds. As shown in figure 24A, a mariotte vessel may be substituted for the constant-rate pump by using a funnel and tube arrangement. All equipment should be thoroughly flushed with an alcohol-water solution upon completion of the measurement.

Sampling

It is important that the water sample be taken below the ice in flowing water. To obtain a representative sample, a rigid plastic tube with a 1/4-in inside diameter is inserted through the ice hole until the tube is below the ice but not hitting the streambed. If the flow is swift, the plastic tube will vibrate in the flow. This and the depth at each sampling hole can be a guide in estimating the proportion of flow to be allotted each sample. Draw freshwater up into the tube, taking care not to swallow any, and immediately blow it back out. That washes out previous samplings and removes any stagnant water that may enter the tube as it is first lowered through the hole. Next, draw or pipet in a freshwater sample, hold it in the tube by placing a finger over the top, and withdraw the tube from the hole, transferring the contents to suitable containers. Samples of about 15 to 20 mL are needed for laboratory analysis. In addition to the river samples taken during the actual dye tests, water samples for background analyses should be taken before the injection.

Analysis

The samples should be protected from freezing and returned to the laboratory for the usual anlaysis. Analyses and computations are the same as those described for other dye-dilution, constant-injection discharge measurements.

Canals and pipes

The data shown in figures 8 and 17 for a small, moderately sloping stream with a depth-to-width ratio of 1 to 20 and a mixing length of 700 ft are typical of a natural stream. Using those data and referring to figure 2, the total time of passage of a slug-response curve, T_D, was 7 minutes, and a stable plateau concentration was achieved 12 minutes after the start of injection. Had greater mixing distances been employed or had the natural channel contained more slack-water zones, a longer period of injection would have been necessary before a plateau was reached.

When a tracer is slug injected into manmade canals or pipes, the resulting response curves are much less elongated than those depicted in figures 1, 2, and 3 because of the lack of slack-water areas. Consequently, the plateau in response to a constant-rate tracer injection will also be reached rapidly in lined canals and pipes. Figure 28 shows time-concentration data obtained from a 4-minute-duration, constant-rate injection in a large irrigation canal in Colorado. Note that, although the distance was more than a mile, a plateau was reached within 3 minutes, 16 minutes after the start of injection. The mean velocity in this canal during the measurement was more than 7 ft/s; as seen in equation 4, the mixing length required is directly proportional to the mean velocity. Thus, in such structures, the time for mixing may be brief but the distance large.

Similar results may be expected in pipes and other manmade conduits where velocities are high and pools and riffles nonexistent. If adequate mixing lengths are physically available, excellent dye-dilution measurements can be made in such structures.

Measurement During Unsteady Flow

Concepts

According to the constant-rate injection formula for discharge, equation 2, if tracer is injected continuously at a constant rate into a flow varying as shown by the solid line in fig-

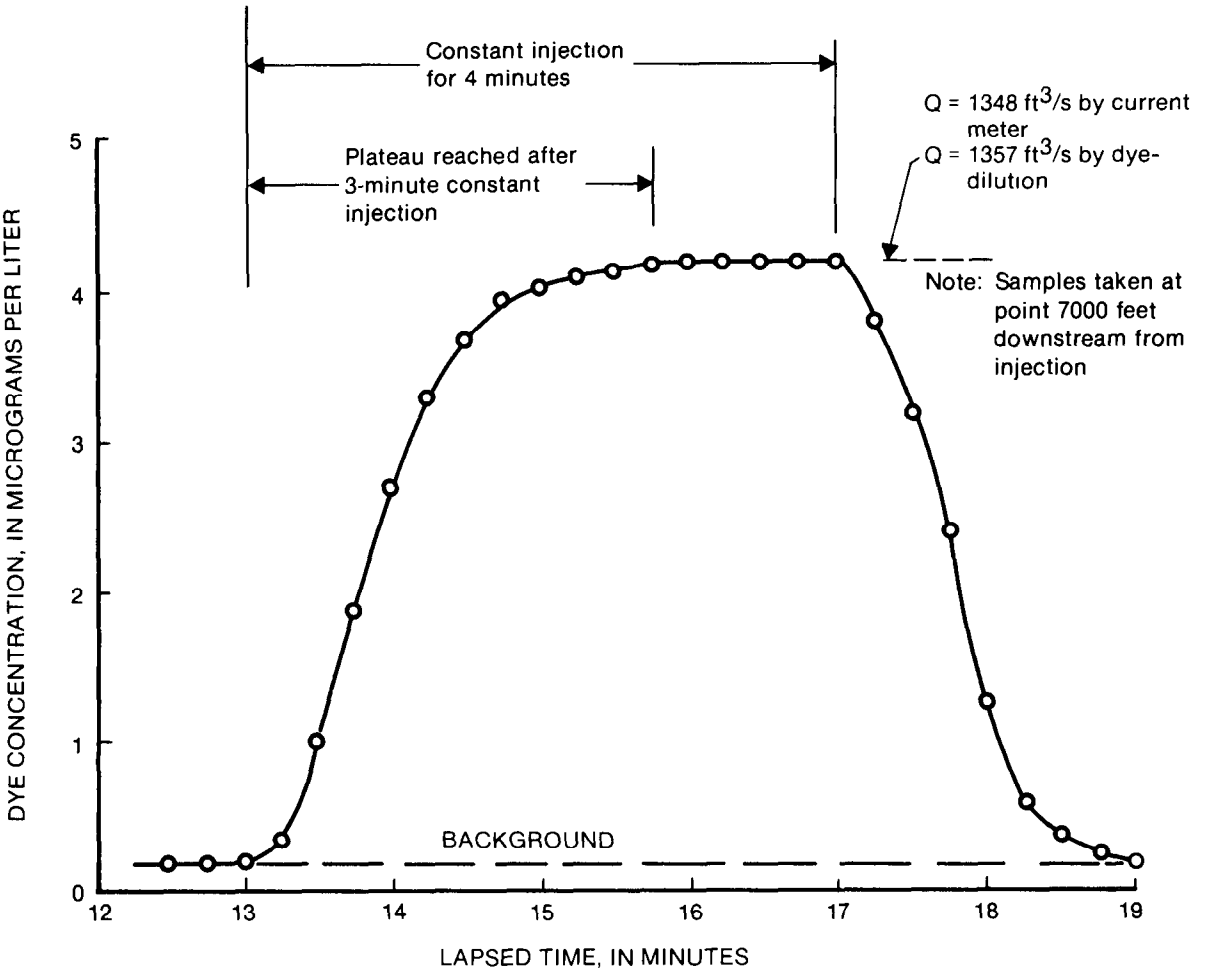
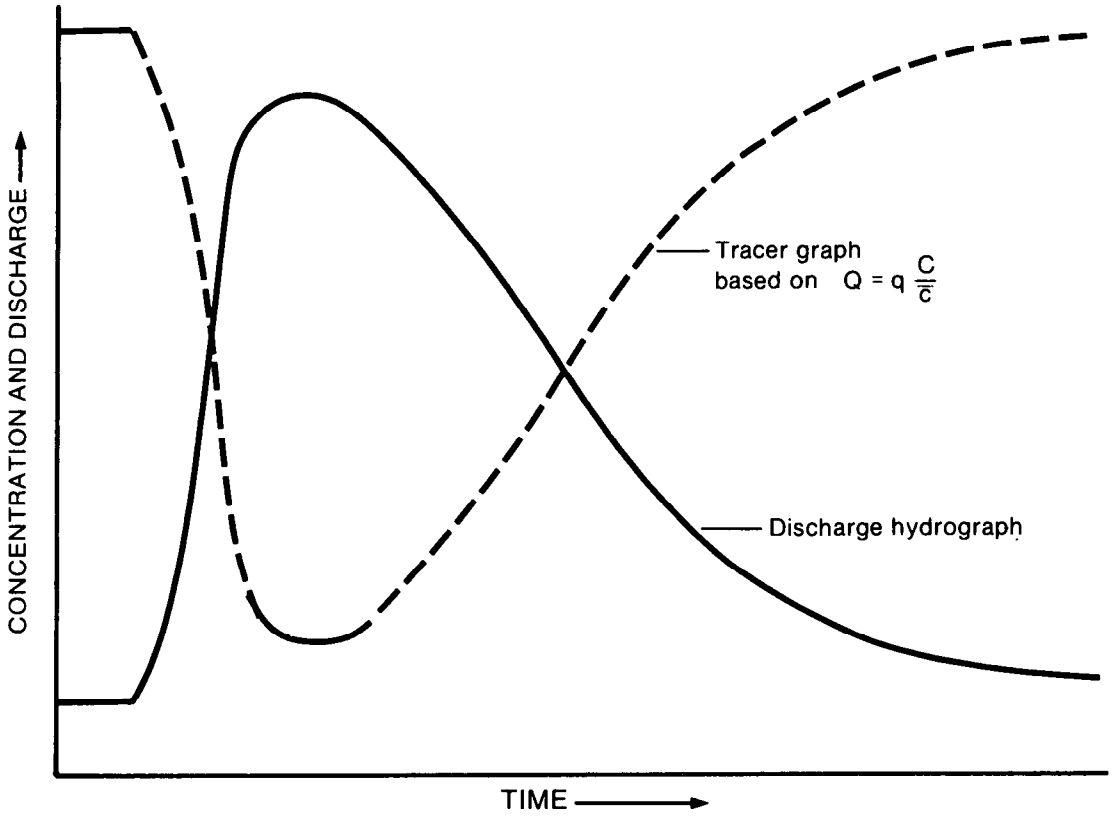


Figure 28.—Rapid measurement of discharge in a lined canal by dye dilution, Charles Hanson Canal, Colorado.

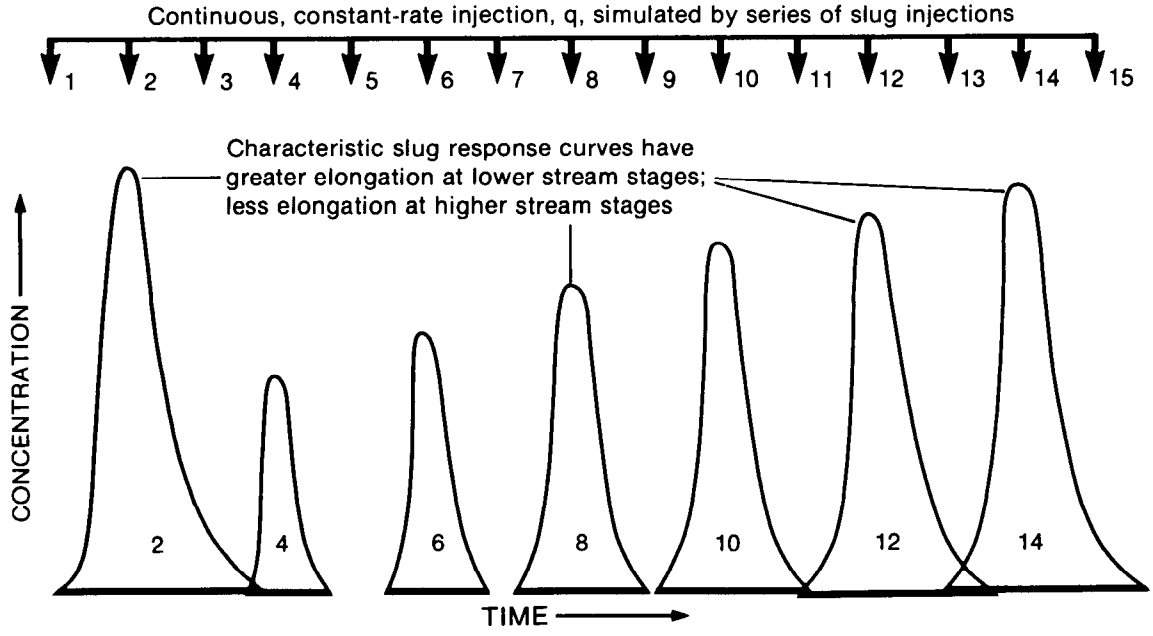
ure 29A, the inverse tracer concentration graph shown as a dashed line results. Theoretically, any sample taken (assuming adequate mixing) during such an unsteady flow would be a measure of the discharge at that instant. Thus, interesting possibilities exist for the accurate measurement of unsteady or rapidly varying flow.

Unfortunately, certain factors limit the degree of unsteadiness that can be measured practically by dilution techniques. Fortunately, field tests show that the method can be used and equation 9 applied for rather high degrees of unsteady flow. Additional laboratory and field tests are in progress to attempt to define the conditions and limits of use of the constant-rate injection method for the measurement of unsteady flow.

For the theoretically correct measurement of unsteady flow using a continuous injection, a given element of tracer would have to mix instantaneously in the flow element into which it was injected. That is, the longitudinal dispersion that produced the ever-elongating tracer response curves shown in figure 1 could not exist. But of course it does exist; and, in steady flow, the plateau is produced by the summation of the superposed slug-response curves, as shown in figure 2, which are shaped by longitudinal dispersion. The greater the elongation of



A. Tracer hydrographs produced by constant-rate injection into unsteady discharge



B. Conceptualized slug responses that occur at different discharges; every other response curve is shown.

Figure 29.—Constant-rate injection into unsteady flow.

the characteristic slug-response curves, the greater the probable error in a constant-injection dye-dilution measurement in unsteady flow.

A precise theoretical analysis of a continuous, constant-rate tracer injection into unsteady flow has not yet been accomplished. Some idea of the factors involved can be ascertained, conceptually at least, by using the superposition principle discussed in the section on Theory, in which the plateau resulting from a constant injection of tracer into steady flow is simulated by superposing the characteristic slug-response curves (fig. 2). In figure 29B, the characteristic slug-response curves are superposed but increased or decreased in concentration to reflect the dilution that would occur if each slug mass were mixed into its respective element of flow. Furthermore, as flow depth and velocities increase at the higher stages, longitudinal dispersion typically decreases; that is, slug-response curves become shorter in time of passage and, thus, favorable to an accurate dilution measurement of unsteady flow. At the same time, it is probable that the mixing length required to measure the discharge hydrograph shown in figure 29A would be the longest (mixing length would change primarily due to change in depth and velocity) at the higher discharges until bankfull stage was reached. Thus, the reach length chosen would have to be greater than necessary for the lower discharges and the characteristic response curve for the lower stages elongated excessively over that needed for an accurate dilution measurement. This occurs particularly when pool-and-riffle rather than channel-control flow conditions exist. The characteristic response curves shown in figure 29B have, therefore, been altered from the steady-state shape to reflect dilution and change in longitudinal dispersion with stage and discharge. Figure 29 provides conceptually the following insights into what is apt to happen with the continuous constant-rate injection into an unsteady flow and where the best accuracy for discharge measurements is likely.

1. Greatest errors are apt to occur on the rapidly changing rising limb of the discharge hydrograph.
2. Lesser longitudinal dispersion at higher stages just past the peak and on the recession will result in the most accurate results during this part of the hydrograph.

Results

Constant-rate, dye-dilution measurement tests of unsteady flow have been successfully performed by F. A. Kilpatrick, by Katz and Fischer (1983), and by M. D. Duerk (U.S. Geological Survey, 1983). Duerk was successful in accurately measuring discharge by the constant-injection method for rates of change in stage of as much as 5 ft/hr (550 $ft^3/s/hr$) on a recession. While limited, his data showed greater errors for measurements on the rising-stage portion of hydrographs. Constant-injection dilution measurements by the senior author in a lined canal in Colorado indicated good accuracy on a recession having a rate of change of stage of 1.6 ft/hr (360 $ft^3/s/hr$) but with poor results on a rising hydrograph: −10 percent on the average for a 5.5 ft/hr rate of change (940 $ft^3/s/hr$).

Automatic dilution gaging

There has always been a need to measure flows and develop ratings for small streams. The need has increased as interest has increased in land-use impact resulting, for example, from urban development and coal mining. Flows from small basins are characteristically unsteady with rapidly changing stage hydrographs of 1 to 6 hours duration and turbulent, high-velocity debris and sediment-laden flows. Such conditions make conventional measurement by current meter virtually impossible. Remoteness of the small basins and the unpredictability of flow events further complicate conventional measuring techniques, even if measuring such streams were physically possible.

The application of dilution gaging to the automatic measurement of runoff hydrographs involves the marriage of any one of the types of injection apparatus previously discussed with some sort of water-sampling system located at the gage site. The system is activated by a

stage or discharge indicative of storm runoff. Such a system could be installed at a station until rated and then moved to other stations as needed.

Injection system

Figure 30A shows a recommended injection system with these features:

1. A constant-head mariotte tank has been coupled with a 12-volt constant-rate injection pump, thus sealing the dye reservoir from dirt and evaporation and improving pump performance by ensuring constancy of injection rate.
2. A small graduated section (see mariotte vessel on the right in fig. 14) has been incorporated into the top of the larger mariotte reservoir to permit checking the flow rate each time the station is visited.[4] It is important that an accurate measurement of the injection rate be obtained and that it reflect the resistance from the plumbing of the injection apparatus. This is especially true of a multiple-injection scheme. A dye solution of the same concentration should be added to the tank after each rate check, keeping the tank full.
3. A valve and flushing-tank arrangement is incorporated into the system to allow cleansing of the pump and injection lines each time the system is visited. An alcohol solution should be used as a flushing agent to cleanse, prevent freezing, and discourage insects from entering the injection lines.
4. The injection may be initiated by a stage sensor at the injection site or by hard-wire relay from the sampling station. Stage sensors should be set to initiate and stop injection above and below a given stage.
5. The dye reservoir should be adequate for a continuous injection throughout the expected duration of the hydrograph.
6. The dye solution should contain alcohol if freezing conditions are expected. The concentration of the solution and the pump rate should be sufficient to yield concentrations of about 5 μg/L using rhodamine WT 20 percent (see fig. 9) at the maximum expected discharge.
7. Unless the channel reach above the gaging station where sampling is to take place is narrow and the flow likely to be highly turbulent, a two-point injection is recommended to minimize the necessary mixing length. As can be seen from the section on Mixing Length, a two-point injection shortens mixing length by a factor of four, compared to single-point injection.

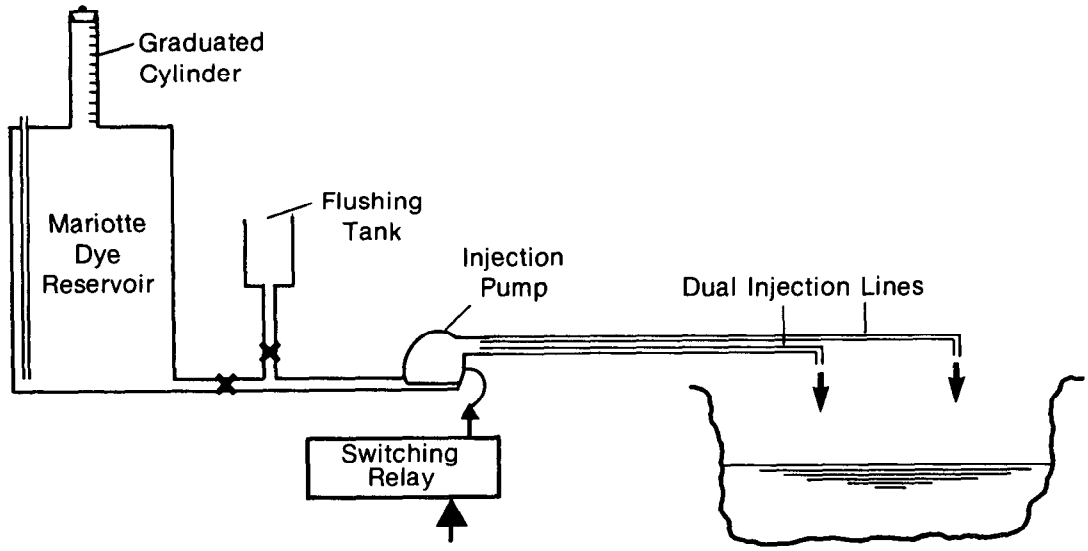
Sample recovery system

Several commercial, bottle-type water samplers are available and may be incorporated into a recovery system. The recommended sampling system is shown in figure 30B and should have these features (Duerk, 1983):

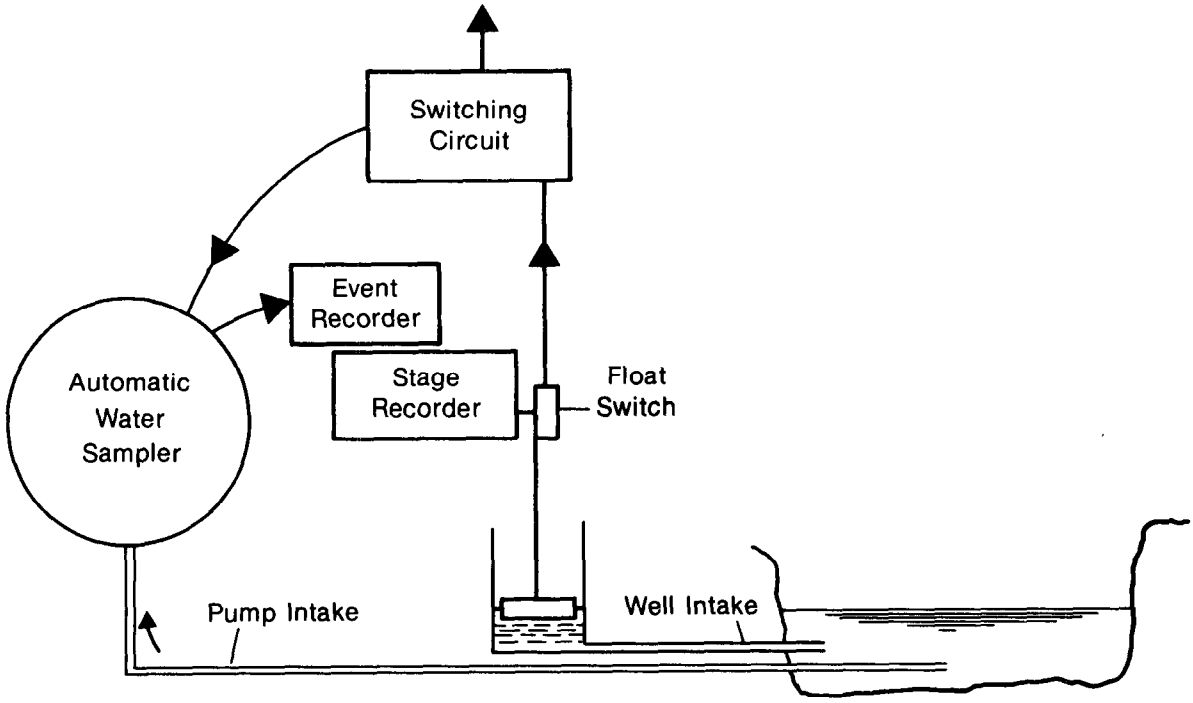
1. It must be capable of obtaining a sample when flow velocities are high, preferably from an intake located well within the main flow.
2. The sampler must take discrete samples and not allow cross-contamination between samples. For highly responsive streams, the shortest pumping time necessary to obtain a sample should be used so that each sample more closely represents an exact stage and discharge.
3. Individual samples must be coordinated with stage and time.
4. As with all dilution-discharge measurements, background samples are needed. This may be done by having the sampler turn on simultaneously with the dye-injection system so that a sample is obtained before the dye arrives.

The technique suggested in (4) above would not allow evaluation of background during the dye-injection period, and the assumption would have to be made that once the samples had been permitted to set in the laboratory, background was constant. If rhodamine WT dyes or

[4] If there is sufficient flow at the time of a routine visit, the flow-rate check might also be made a routine dye-dilution discharge measurement, thus lending confidence to future automatic measurements.



A. Automatic Injection System



B. Automatic Sample-Recovery System

Figure 30.—Automatic injection and sampling systems for dye-dilution measurement of unsteady flow.

pontacyl pink are used, that is probably a safe assumption. If other tracers are used, variation in background with flow may be a problem. The collection of samples upstream from the injection system at selected stages during the flow event would provide evidence of any background variation.

The biggest deterrent to the accurate dye-dilution measurement of storm-produced runoff flows is possible error due to dye losses in flows transporting large sediment loads, particularly fine clay sediments. That source of error can be partly countered by using high dye concentrations where permissible and possibly by developing a means of filtering the samples immediately upon collection.

Velocity Area Measurements

One of the earliest forms of discharge measurement was the "salt-velocity" method (Allen, 1927). It consists of measuring the time of passage of a pulse of sodium chloride in a full-flowing conduit of uniform and known cross-sectional area and length. Using that technique, the discharge may be computed as

$$Q = \frac{V}{t_c} \qquad (13)$$

where V is the volume of the conduit through which the lapsed time of travel of the tracer, t_c, is measured.

That method is still entirely feasible and very accurate for discharge measurement using a variety of tracers. Tracer losses no longer become a factor, the only essential requirements being a single uniform-flow cross section throughout the test reach and a steady flow. Fluorescent dyes are well suited to such measurements (Harris and Sanderson, 1968).

The following precautions should be taken:

1. Lapsed time, T_c, should be based on measurements of the centroids of upstream and downstream time-concentration curves. Lapsed time should not be based on time from slug injection to downstream time-concentration curves unless unavoidable or the distance between observation points in very large.
2. Careful synchronization of the time between observation points is essential.
3. Physical dimensions of the conduit need to be checked if feasible; as-built dimensions may be slightly different from blueprint dimensions. A slug-injection type dye-dilution discharge computation may also be made, using the same data as for the velocity test. Then condiut geometry would not be a factor in the accuracy of the measurement. Assuming that mixing length is adequate and care is exercised in performing the test, as discussed previously, the discharge by dilution should confirm the results of the velocity test (using the same data) if the volume of the conduit is correct.

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APPENDIX A
COMPUTATION OF PERCENTAGE MIXING

Computation of Percentage Mixing

The degree of mixing of a tracer is a measure of the extent to which mixing has occurred laterally in a channel cross section. Thus, when a tracer is uniformly mixed across a channel, the degree of mixing is 100 percent. From a theoretical standpoint, 100-percent mixing requires an infinite channel length, but for practical purposes, mixing on the order of 95 percent is ordinarily sufficient to yield an accurate discharge measurement. When greater accuracy is required, mixing on the order of 98 percent may be desirable.

Ordinarily, the computation of percentage mixing is not necessary, because inspection of the concentration data will indicate the adequacy of mixing. Furthermore, if those data are discharge weighted, less than ideal mixing is acceptable. Several mixing equations exist; the one by Yotsukura and Cobb (1972, p. C5) is recommended. This may be expressed as

$$P_m = 100 - \frac{50}{\bar{c}Q} \sum_{i=1}^{N} |c_i - \bar{c}| Q_i \qquad (14)$$

where c_i are the concentrations at points i across the section or, if the slug injection is used, the areas under the concentration-time curves as measured at those same points. Fluorometer dial readings adjusted for background may be used in lieu of concentrations if all are on the same scale;

$\bar{c}$ is the average of the plateau concentrations, c_i, as determined by discharge weighting or by arithmetic averaging; dial readings adjusted for background may also be substituted if all are on one scale;

Q_i are the discharges applicable to the points, i; and

Q is the total stream discharge and must equal the sum of the Q_i's.

The term $|c_i - \bar{c}|$ results in absolute values.

An example computation of percent mixing follows, using the data from the example described in figure 18.

$$P_m = 100 - [|32.0 - 44.4|3 + |42.0 - 44.4|5 + |58.4 - 44.4|11 + |40.0 - 44.4|17 + |37.2 - 44.4|4]$$

$$\frac{50}{44.4 \times 40}$$

$$= P_m = 100 - [|12.4|3 + |2.4|5 + |14.0|11 + |4.4|17 + |7.2|4]0.0282$$

$$= 91.3 \text{ percent.}$$

Constant-rate dye-dilution discharge measurement on _____ Date ____/____/_____
G.H. = _____ @ _____; Est. Q = _____; Required injection rate _____ mL/min
C = _____;
Est. mixing length required, _____ ft. Injection started @ _____ stopped @ _____; measured q = ____ mL/min

FIELD DATA					FLUOROMETRIC ANALYSIS				DATA ANALYSIS AND COMPUTATIONS			
Sampling Locations		Bottle no.	Lapsed time, min	Estimated portion of total discharge, Q_n (ft^3/s)	Fluorometer scale				Conc. in µg/L	Weighted conc., columns 10 x 5	Weighted (a) avg. conc. reading $\bar{c}=\frac{\sum Col\ 11}{Q_{est}}$	Computed discharge $Q=5.89\times10^{-7}\ q\ \frac{C}{\bar{c}}$
Distance	Pt				1X	3X	10X	30X				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Stream backgr.												
Stream @ ____ ft downstr.	a											
	b											
	c											
	d											
	e											
										Σ		
Stream @ ____ ft downstr.	a											
	b											
	c											
	d											
	e											
										Σ		
Stream @ ____ ft downstr.	a											
	b											
	c											
	d											
	e											
										Σ		

FLUOROMETER CALIBRATION							
		Concentration in ug/L	1X	3X	10X	30X	Net dial reading, R^b
Standard							
Standard							
Dist. Water							

(a) Enter arithmetic average if weighting is not used.
(b) Use to define fluorometer calibration for scale used with stream samples.

Figure 31.—Form for recording, analyzing, and computing constant-rate dye-dilution discharge measurement using actual concentrations.

Constant-rate dye-dilution discharge measurement on *Cane Creek near Hampton, Virginia* Date *7 / 7 / 77*
G.H. = *1.12* @ *9:45 a.m.*; Est. Q = *40 ft3/s*; Required injection rate *30.0* mL/min
C = *2.38 x 10⁷ µg/L*;
Est. mixing length required, *700* ft. Injection started @ *10:00 am* stopped @ *10:30 am* measured q = *31.2* mL/min

FIELD DATA					FLUOROMETRIC ANALYSIS				DATA ANALYSIS AND COMPUTATIONS			
Sampling Locations		Bottle no.	Lapsed time, min	Estimated portion of total discharge, Q_n (ft^3/s)	Fluorometer scale				Conc. in µg/L	Weighted conc., columns 10 x 5	Weighted (a) avg. conc. reading $\bar{c}=\frac{\sum \text{Col 11}}{Q_{est}}$	Computed discharge $Q=5.89\times10^{-7}\, q\, \frac{C}{\bar{c}}$
Distance	Pt				1X	3X	10X	30X				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Stream backgr.		*302*	*0*			*0.2*						
Stream @ ____ ft downstr.	a	*303*	*20*	*10*		*48.7*			*10.65*	*106.5*		$5.89\times10^{-7}\times31.2\times\frac{2.38\times10^{7}}{10.65} = 41.1\frac{ft^3}{s}$
	b	*304*	*20*	*18*		*49.0*			*10.67*	*192.1*		
	c	*305*	*20*	*12*		*48.5*			*10.62*	*127.4*	*10.65*	
	d											
	e											
									Σ	*426.0*		
Stream @ ____ ft downstr.	a	*306*	*25*	*10*		*48.6*			*10.61*	*106.1*		$5.89\times10^{-7}\times31.2\times\frac{2.38\times10^{7}}{10.64} = 41.1\frac{ft^3}{s}$
	b	*307*	*25*	*18*		*49.1*			*10.69*	*192.4*		
	c	*308*	*25*	*12*		*48.6*			*10.60*	*127.2*	*10.64*	
	d											
	e											
									Σ			
Stream @ ____ ft downstr.	a											
	b											
	c											
	d											
	e											
									Σ			

FLUOROMETER CALIBRATION							
		Concentration in ug/L	1X	3X	10X	30X	Net dial reading, R[b]
Standard	*309*	*8.0*		*36.7*			*36.5*
Standard	*310*	*10.0*		*45.6*			*45.5*
Dist. Water	*311*			*0.1*			

(a) Enter arithmetic average if weighting is not used.
(b) Use to define fluorometer calibration for scale used with stream samples.

Figure 32.—Completed form for recording, analyzing, and computing constant-rate dye-dilution discharge measurement using actual concentrations.

Constant-rate dye-dilution discharge measurement on _____ Date ____/____/____

G.H. = _____ @ _____; Estimated Q = _____; Required injection rate _____ mL/min

C = _____; Corresponding dilution factor, D_C relative to C_s = _____ *

Estimated mixing length required, _____ ft. Injection started @ _____ Injection stopped @ _____

FIELD DATA					FLUOROMETRIC ANALYSIS				DATA ANALYSIS AND COMPUTATIONS			
Sampling Locations		Bottle no.	Lapsed time, min	Estimated portion of total discharge, Q_n (ft^3/s)	Fluorometer scale				Net dial reading, $\bar{r}$	Weighted dial readings, columns 10 x 5	Weighted avg. dial reading $\bar{r}=\frac{\Sigma Col\ 11}{Q_{est}}$	Computed discharge $Q=5.89\times10^{-7}\ q\frac{R}{\bar{r}}\times\frac{D_C}{D_T}$*
Distance	Pt				1X	3X	10X	30X				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Stream backgr.												
Stream @ ____ ft downstr.	a											
	b											
	c											
	d											
	e											
										Σ		
Stream @ ____ ft downstr.	a											
	b											
	c											
	d											
	e											
										Σ		
Stream @ ____ ft downstr.	a											
	b											
	c											
	d											
	e											
										Σ		

FLUOROMETER CALIBRATION								
		Concentration in µg/L	1X	3X	10X	30X	Net dial reading, R	Total dil. factor, D_T
Standard								
Standard								
Dist. Water								

* D_C=1.0 if D_T is based on C rather than C_s.

Figure 33.—Form for recording, analyzing, and computing constant-rate dye-dilution discharge measurement using fluorometer dial readings and dilution factors.

Constant-rate dye-dilution discharge measurement on *Cane Creek near Hampton, Virginia* Date *7* / *7* / *77*
G.H. = *1.12* @ *9:45 a.m.* ; Estimated Q = *40 ft3/s* ; Required injection rate *30.0* mL/min
C = *2.38 x 10⁷* ; Corresponding dilution factor, D_C relative to C_s = *10.1* *
Estimated mixing length required, *700* ft. Injection started @ *10:00 a.m.* Injection stopped @ *10:30 a.m.*

FIELD DATA					FLUOROMETRIC ANALYSIS				DATA ANALYSIS AND COMPUTATIONS			
Sampling Locations		Bottle no.	Lapsed time, min	Estimated portion of total discharge, Q_n (ft^3/s)	Fluorometer scale				Net dial reading, $\bar{r}$	Weighted dial readings, columns 10 x 5	Weighted avg. dial reading $\bar{r}=\frac{\Sigma \text{Col 11}}{Q_{est}}$	Computed discharge $Q=5.89\times10^{-7}\,q_T^R \times \frac{D_C}{D_T}$*
Distance	Pt				1X	3X	10X	30X				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Stream backgr.		*302*	*0*			*0.2*						
Stream @ ____ ft downstr.	a	*303*	*20*	*10*		*48.7*			*48.5*	*485.0*		$5.89\times10^{-7}\times31.2\left[\frac{45.5}{48.6} \text{ or } \frac{10-1}{4.20\times10^{-8}}\right]$ = *41.0 ft3/s*
	b	*304*	*20*	*18*		*49.0*			*48.8*	*878.4*		
	c	*305*	*20*	*12*		*48.5*			*48.3*	*579.6*	*48.6*	
	d											
	e											
										Σ *1943*		
Stream @ ____ ft downstr.	a	*306*	*25*	*10*		*48.6*			*48.4*	*484.0*		*Same*
	b	*307*	*25*	*18*		*49.1*			*48.9*	*880.2*		
	c	*308*	*25*	*12*		*48.6*			*48.4*	*580.8*	*48.6*	
	d											
	e											
										Σ *1945*		
Stream @ ____ ft downstr.	a											
	b											
	c											
	d											
	e											
										Σ		

FLUOROMETER CALIBRATION								
		Concentration in µg/L	1X	3X	10X	30X	Net dial reading, R	Total dil. factor, D_T
Standard	*309*	*8.0*		*36.6*			*36.5*	*3.36 x 10⁻⁸*
Standard	*310*	*10.0*		*45.6*			*45.5*	*4.20 x 10⁻⁸*
Dist. Water	*311*			*0.1*				

* D_C=1.0 if D_T is based on C rather than C_s.

Figure 34.—Completed form for recording, analyzing, and computing constant-rate dye-dilution discharge measurement using fluorometer dial readings and dilution factors.

Attachment 2

Geotechnical Analysis Results

GeoTesting EXPRESS

Client:	Obrien & Gere Engineering
Project Name:	SB 915 CLOSURE Investigation
Project Location:	Syracuse, NY
GTX #:	11867
Test Date:	06/14/12
Tested By:	jbr/jek
Checked By:	jdt

Density (Unit Weight) of Soil by ASTM D 7263

Boring ID	Sample ID	Depth, ft	Visual Description	Bulk Density, lb/ft^3	Moisture Content, %	Dry Density, lb/ft^3
SB915-MW-104S	HB-4004-01	18-20	Moist, brown clay	127	24.1	102
SB915-MW-104I	HB-4004-02	30-32	Moist, olive brown silty sand with gravel	116	7.4	108
SB915-MW-104I	HB-4004-03	42-44	Dry, brown silty gravel with sand	72.2	2.0	70.9
SB915-MW-104I	HB-4004-04	66-68	Moist, olive brown silty gravel with sand	81.0	5.3	76.9
SB915-MW-105S	HB-4004-05	10-12	Moist, gray sandy silt	108	14.3	94.5
SB915-MW1065	HB-4004-06	12-14	Moist, brown clay	122	21.1	101
SB915-MW1061	HB-4004-07	24-26	Moist, brown clay	126	26.6	99.4
SB915-MW1061	HB-4004-08	38-40	Moist, brown silt	121	21.1	100
SB915-MW-107S	HB-4004-09	14-16	Moist, brown clay	125	25.9	99.1
SB915-MW-107I	HB-4004-10	52-54	Moist, brown silty sand with gravel	136	11.9	122
SB915-MW-107D	HB-4004-11	100-102	Moist, grayish brown silty sand	131	10.6	118
SB915-MW107BR	HB-4004-12	28-30	Moist, brown silt	127	21.6	104
SB915-MW-107BR	HB-4005-01	68-70	Moist, reddish brown silty sand	128	6.4	120
SB915-MW-107BR	HB-4005-02	78-80	Moist, grayish brown gravel with silt and sand	114	4.2	109
SB915-MW-107BR	HB-4005-03	108-110	Moist, brown sandy silt	103	6.9	96.2
SB915-MW-108S	HB-4005-04	19-21	Moist, olive brown silt with sand	125	24.7	100
SB915-MW-108D	HB-4005-05	54-56	Moist, brown sand with silt	120	6.5	113
SB915-MW-108BR	HB-4005-06	32-34	Moist, brown silty sand	130	6.7	122
SB915-MW-108BR	HB-4005-07	66-68	Moist, brown sandy silt	131	13.0	116
SB915-MW-109S	HB-4005-08	10-12	Moist, black sand with silt and gravel	75.0	49.3	50.2

GeoTesting EXPRESS

Client:	Obrien & Gere Engineering
Project Name:	SB 915 CLOSURE Investigation
Project Location:	Syracuse, NY
GTX #:	11867
Test Date:	06/14/12
Tested By:	jbr/jek
Checked By:	jdt

Density (Unit Weight) of Soil by ASTM D 7263

Boring ID	Sample ID	Depth, ft	Visual Description	Bulk Density, lb/ft^3	Moisture Content, %	Dry Density, lb/ft^3
SB915-MW1091	HB-4005-09	24-26	Moist, brown silty sand	124	21.6	102
SB915-MW1091	HB-4005-10	48-50	Moist, brown silty sand	143	11.9	128
SB915-MW-110BR	HB-4005-11	12-14	Moist, brown clay	124	22.6	101
SB915-MW-111S	HB-4005-12	17-19	Moist, brown silt with sand	129	22.4	105
SB915-MW-111I	HB-4006-01	58-60	Dry, grayish brown gravel with silt and sand	114	1.6	112
SB915-MW-111D	HB-4006-02	89-91	Moist, brown silty sand	132	12.9	117
SB915-MW-111BR	HB-4006-03	35-37	Moist, brown sand with silt	124	17.3	106
SB915-MW-111BR	HB-4006-04	75-77	Moist, grayish brown silty gravel with sand	119	6.7	112
SB915-MW-111BR	HB-4006-05	99-101	Moist, brown sandy clay	117	9.0	108
SB915-MW-112S	HB-4006-06	16-18	Moist, brown sandy silt	124	23.7	101
SB915-MW-112I	HB-4006-07	40-42	Moist, brown silty sand	125	21.1	103
SB915-MW-112I	HB-4006-08	52-54	Moist, olive brown silty sand	144	11.1	129
SB915-MW-113S	HB-4006-09	18-20	Moist, dark brown silty sand	76.6	132.2	33.0
SB915-MW-114BR	HB-4006-10	14-16	Dry, brown silty, clayey sand with gravel	99.0	5.5	93.8
SB915-MW-115BR	HB-4006-11	18-20	Moist, brown clay	118	30.5	90.7
SB915-MW-115BR	HB-4006-12	54-56	Moist, grayish brown silty sand	133	12.4	118
SB915-MW-116S	HB-4007-01	12-14	Moist, brown clay	113	19.1	95.1
SB915-MW-117S	HB-4007-02	20-22	Moist, grayish brown clay	115	34.9	85.3
SB915-MW-118S	HB-4007-03	8-10	Moist, brown silt	124	25.7	98.5
SB915-MW-118BR	HB-4007-04	22-24	Moist, brown sandy silt	118	19.8	98.1

GeoTesting EXPRESS

Client:	Obrien & Gere Engineering
Project Name:	SB 915 CLOSURE Investigation
Project Location:	Syracuse, NY
GTX #:	11867
Test Date:	06/14/12
Tested By:	jbr/jek
Checked By:	jdt

Density (Unit Weight) of Soil by ASTM D 7263

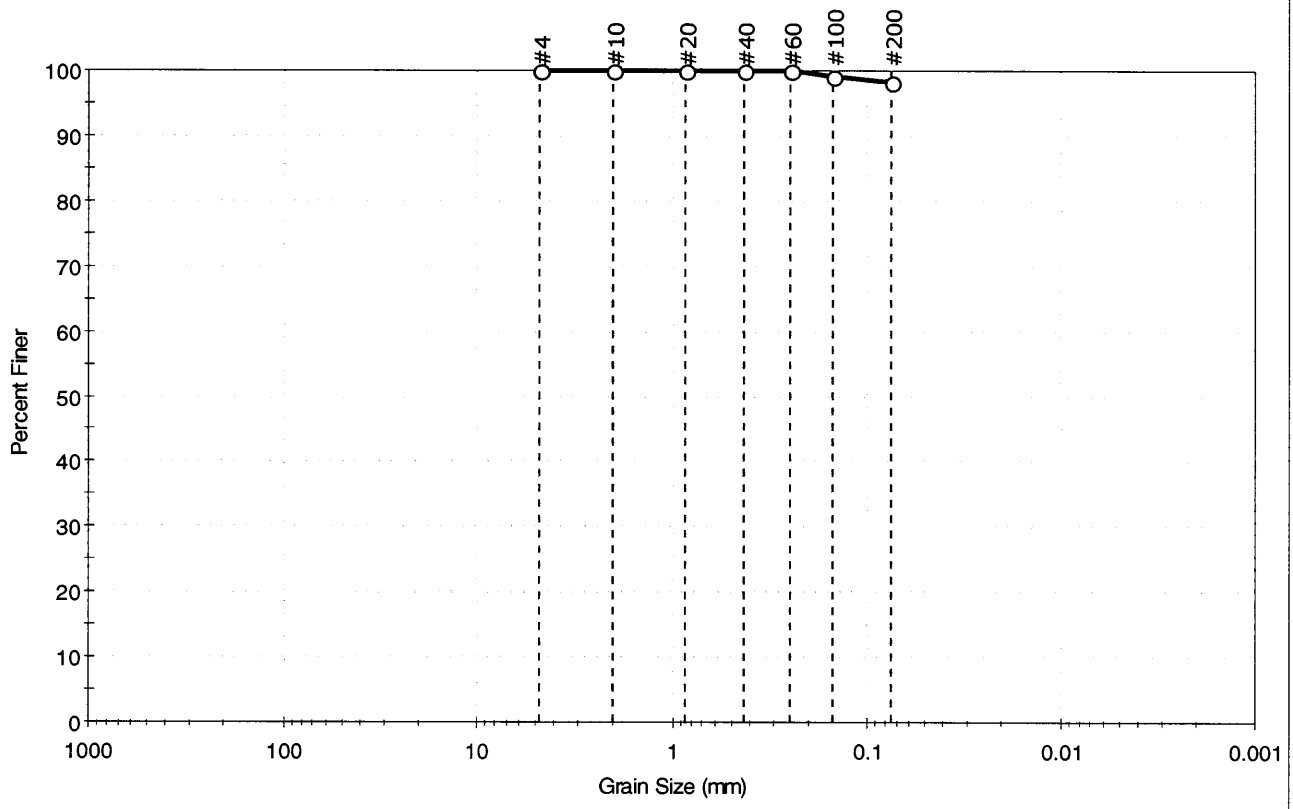
Boring ID	Sample ID	Depth, ft	Visual Description	Bulk Density, lb/ft^3	Moisture Content, %	Dry Density, lb/ft^3
SB915-MW-118BR	HB-4007-05	32-34	Moist, brown silty sand	122	20.6	102
SB915-WB-07R	HB-4007-06	18-20	Moist, brown clay	125	23.9	101
SB915-WB-07R	HB-4007-07	44-46	Moist, grayish brown silty sand	106	15.9	91.7
SB915-WB-07R	HB-4007-08	50-52	Moist, brown silty sand	132	14.1	115
SB915-WB-07R	HB-4007-09	70-72	Moist, grayish brown silty sand with gravel	119	6.0	113
SB915-WB-09L	HB-4007-10	18-20	Moist, grayish brown silty sand with gravel	125	11.5	112
SB915-WB-09L	HB-4007-11	38-40	Moist, grayish brown silty sand	120	21.2	99.1
SB915-WB-09L	HB-4007-12	66-68	Moist, greyish brown silty sand	106	8.3	97.7
SB915-WB-10L	HB-4008-01	12-14	Moist, grayish brown clay	132	12.9	117
SB915-WB-10L	HB-4008-02	34-36	Moist, brown sandy silt	116	16.3	100
SB915-WB-10L	HB-4008-03	64-66	Moist, grayish brown silty sand with gravel	106	4.1	102

Notes: Density determined on disturbed samples by hand compacting into a container of known volume, measuring mass of soil and calculating.
Moisture content determined by ASTM D 2216 at 110° C

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-104S	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4004-01	Test Date:	06/07/12	Checked By:	jdt
Depth :	18-20 ft.	Test Id:	238211		
Test Comment:	---				
Sample Description:	Moist, brown clay				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	1.7	98.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	99		
#200	0.075	98		

Coefficients

D_{85} = N/A	D_{30} = N/A
D_{60} = N/A	D_{15} = N/A
D_{50} = N/A	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

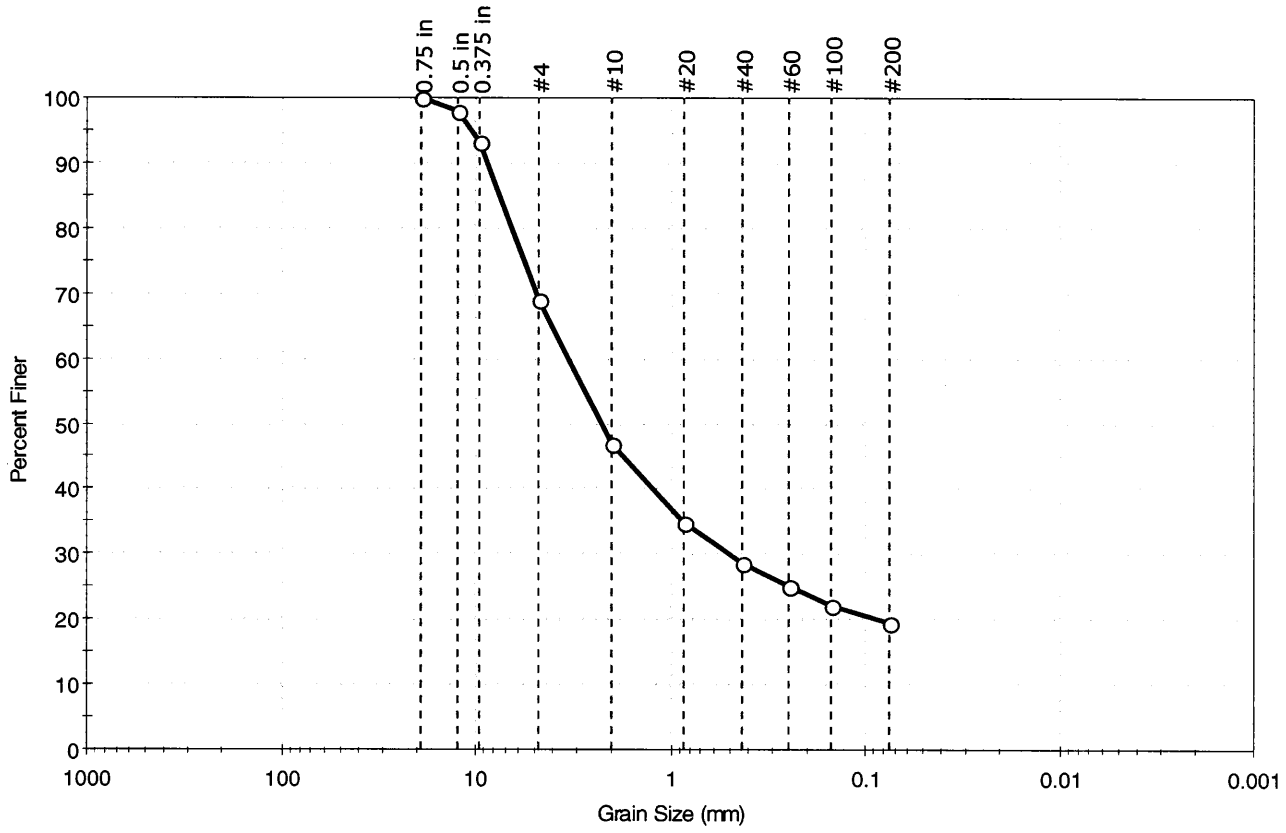
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-104I	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4004-02	Test Date:	06/11/12	Checked By:	jdt
Depth :	30-32 ft.	Test Id:	238212		
Test Comment:	---				
Sample Description:	Moist, olive brown silty sand with gravel				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	31.1	49.4	19.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	98		
0.375 in	9.50	93		
#4	4.75	69		
#10	2.00	47		
#20	0.85	35		
#40	0.42	29		
#60	0.25	25		
#100	0.15	22		
#200	0.075	20		

Coefficients

D_{85} = 7.4996 mm D_{30} = 0.4982 mm
D_{60} = 3.3412 mm D_{15} = N/A
D_{50} = 2.2562 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

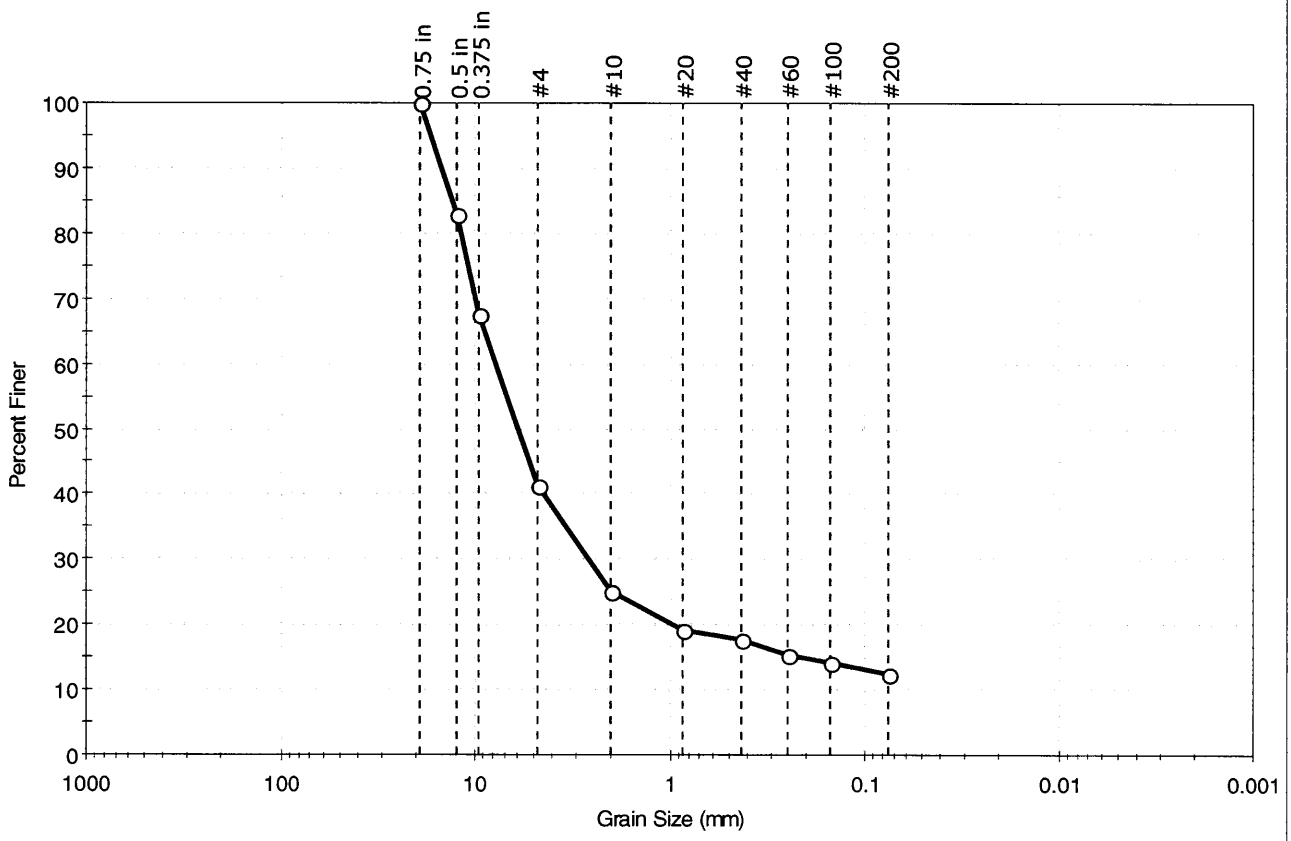
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-104I	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4004-03	Test Date: 06/11/12	Checked By: jdt
Depth :	42-44 ft.	Test Id: 238213	
Test Comment:	---		
Sample Description:	Dry, brown silty gravel with sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	58.6	28.9	12.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	83		
0.375 in	9.50	68		
#4	4.75	41		
#10	2.00	25		
#20	0.85	19		
#40	0.42	18		
#60	0.25	15		
#100	0.15	14		
#200	0.075	12		

Coefficients

D_{85} = 13.1917 mm	D_{30} = 2.5924 mm
D_{60} = 7.7587 mm	D_{15} = 0.2251 mm
D_{50} = 5.9566 mm	D_{10} = 0.0268 mm
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

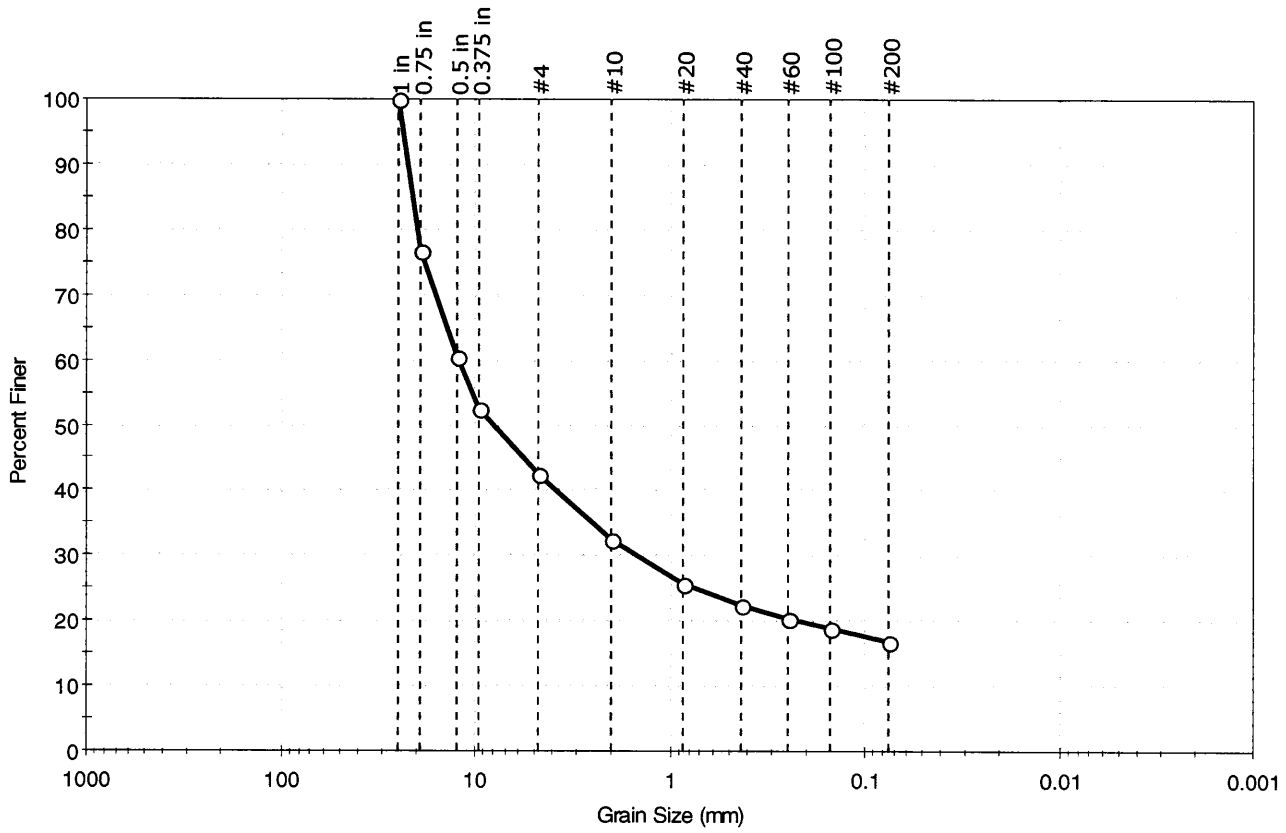
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-104I	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4004-04	Test Date:	06/11/12	Checked By:	jdt
Depth :	66-68 ft.	Test Id:	238214		
Test Comment:	---				
Sample Description:	Moist, olive brown silty gravel with sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	57.5	25.6	16.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	77		
0.5 in	12.50	61		
0.375 in	9.50	53		
#4	4.75	43		
#10	2.00	32		
#20	0.85	26		
#40	0.42	22		
#60	0.25	20		
#100	0.15	19		
#200	0.075	17		

Coefficients

D_{85} = 20.9459 mm	D_{30} = 1.4794 mm
D_{60} = 12.2789 mm	D_{15} = N/A
D_{50} = 7.9553 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

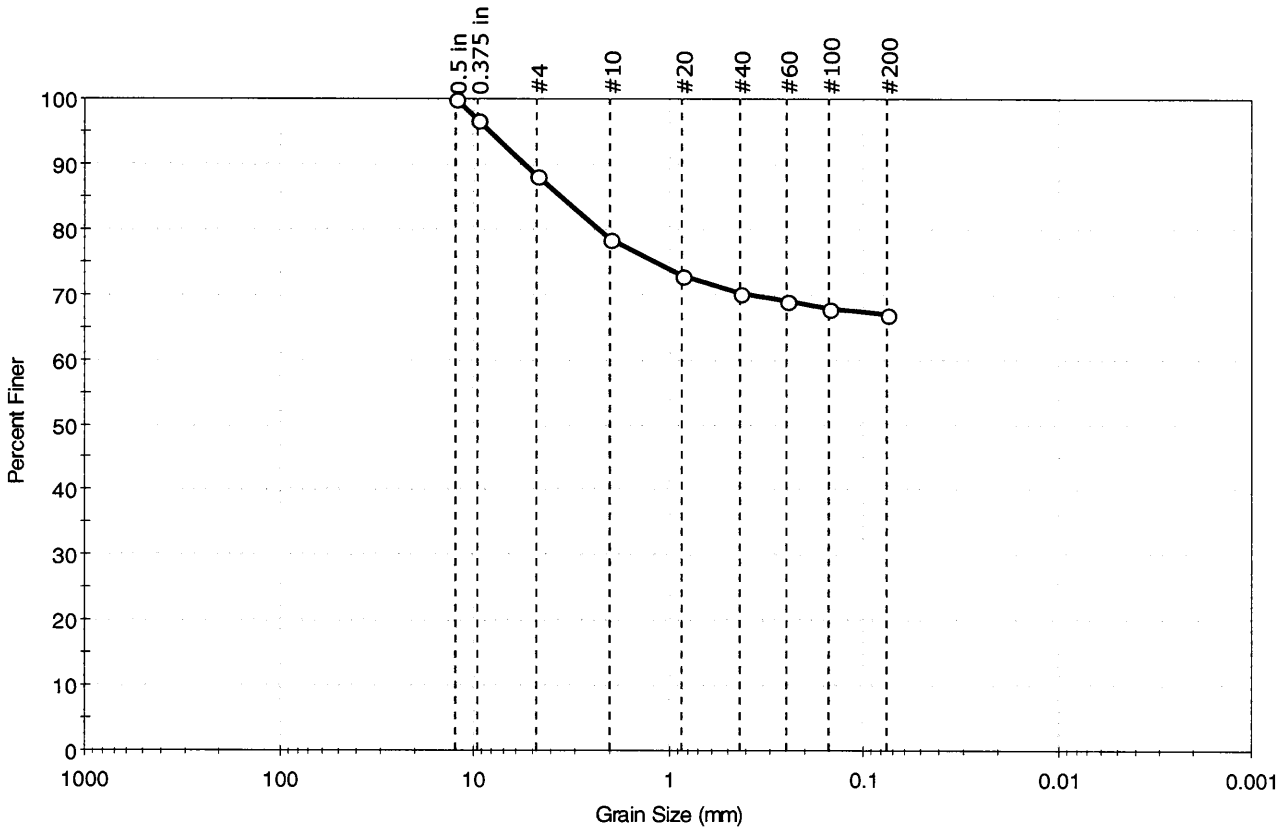
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-105S	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4004-05	Test Date: 06/11/12	Checked By: jdt
Depth :	10-12 ft.	Test Id: 238215	
Test Comment:	---		
Sample Description:	Moist, gray sandy silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	11.8	21.4	66.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	97		
#4	4.75	88		
#10	2.00	79		
#20	0.85	73		
#40	0.42	70		
#60	0.25	69		
#100	0.15	68		
#200	0.075	67		

Coefficients

D_{85} = 3.5669 mm D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

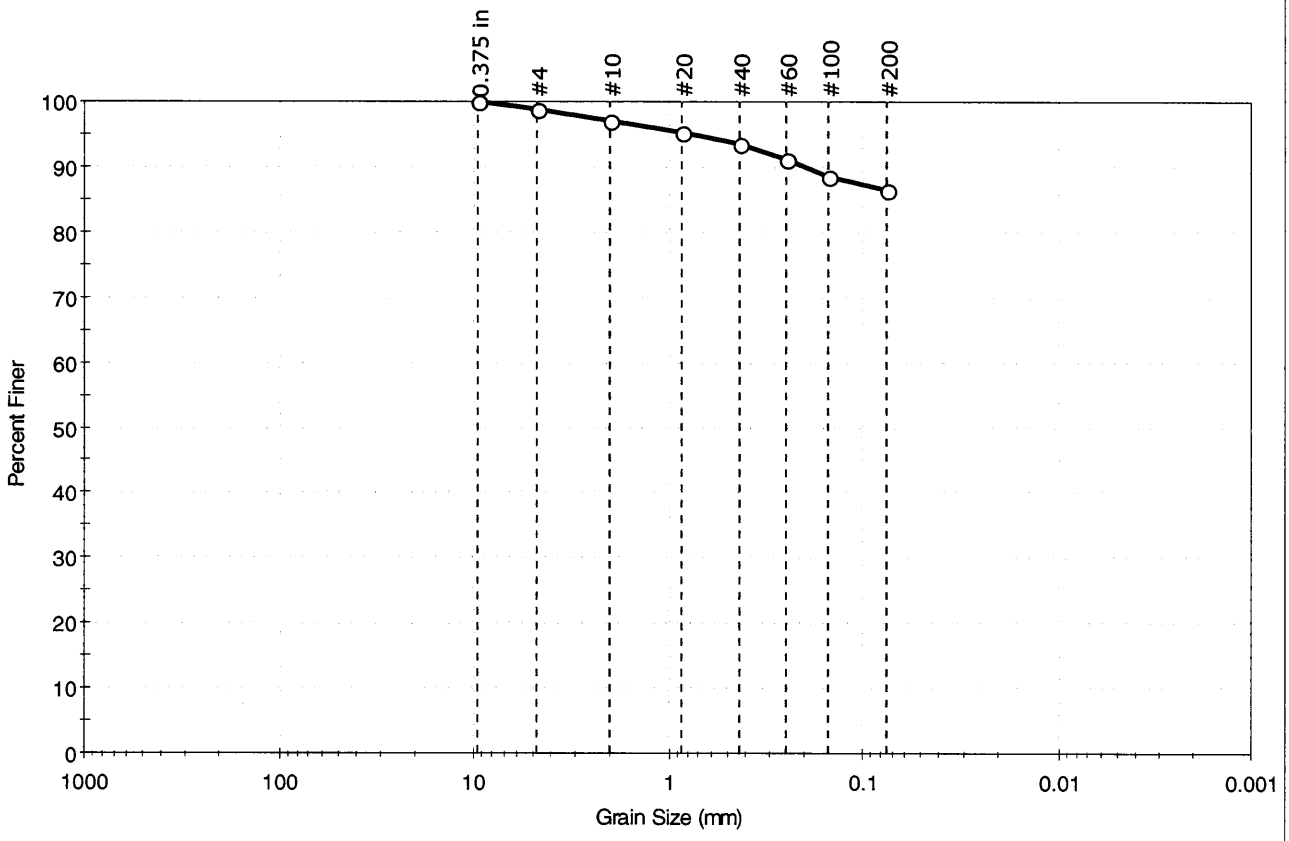
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-106S	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4004-06	Test Date: 06/06/12	Checked By: jdt
Depth :	12-14 ft.	Test Id: 238216	
Test Comment:	---		
Sample Description:	Moist, brown clay		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
--	1.1	12.4	86.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	97		
#20	0.85	95		
#40	0.42	93		
#60	0.25	91		
#100	0.15	89		
#200	0.075	87		

Coefficients

D_{85} = N/A D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

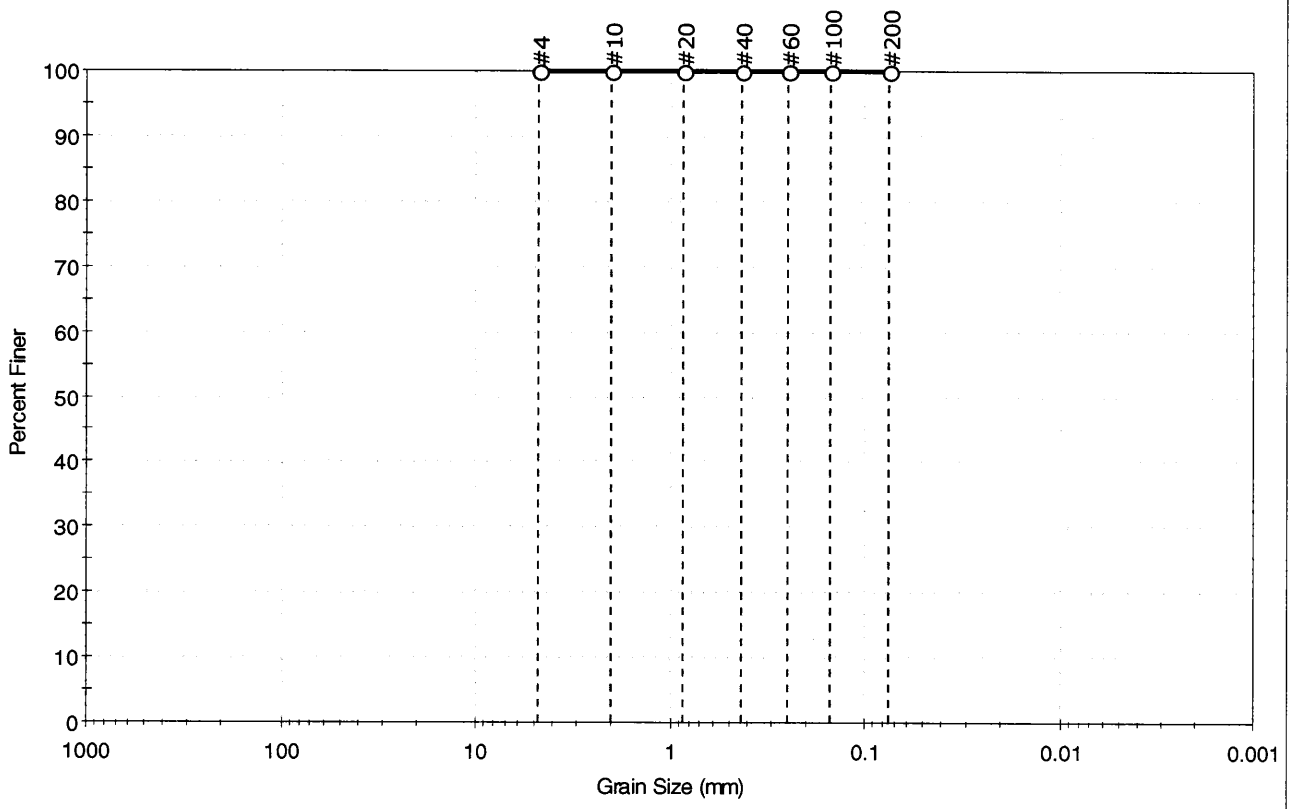
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-106I	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4004-07	Test Date: 06/11/12	Checked By: jdt
Depth :	24-26 ft.	Test Id: 238217	
Test Comment:	---		
Sample Description:	Moist, brown clay		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
--	0.0	0.1	99.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.075	100		

Coefficients

D_{85} = N/A D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

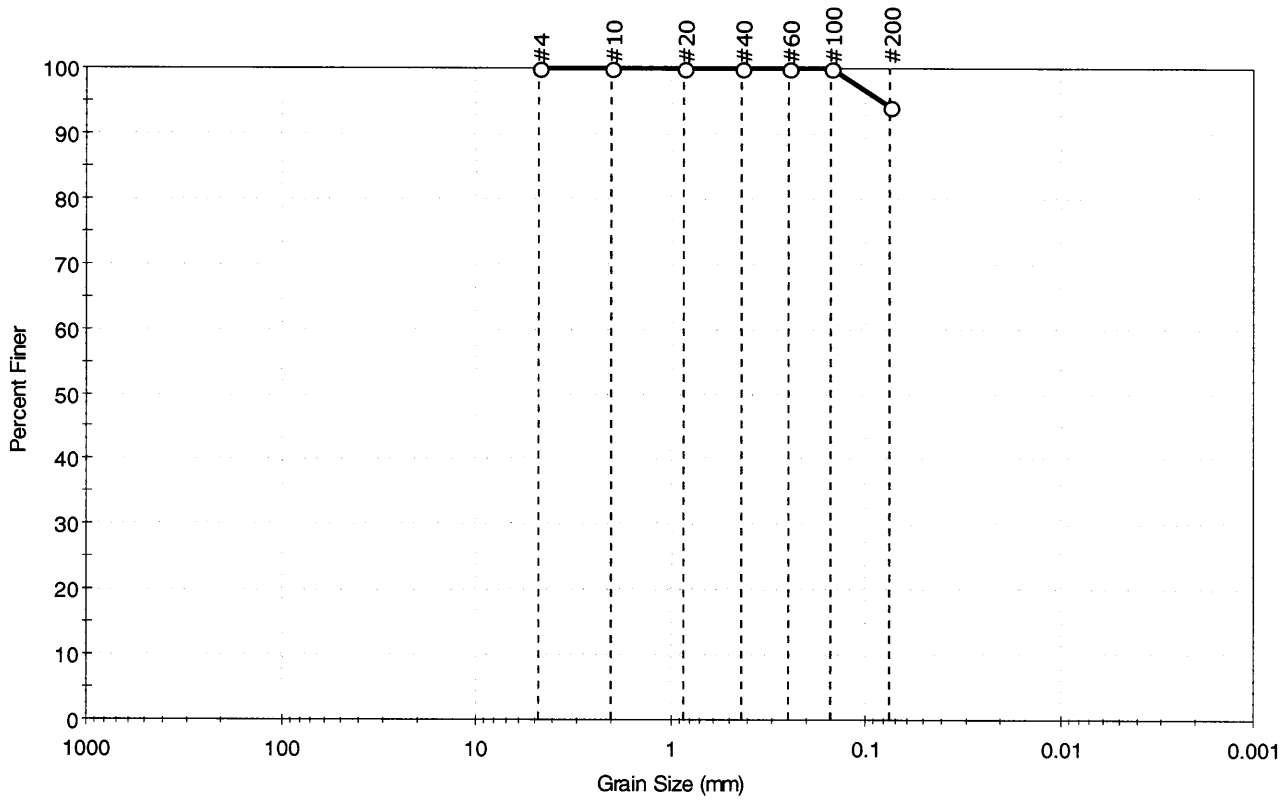
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-106I	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4004-08	Test Date:	06/06/12	Checked By:	jdt
Depth :	38-40 ft.	Test Id:	238218		
Test Comment:	---				
Sample Description:	Moist, brown silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	6.0	94.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.075	94		

Coefficients

D_{85} = N/A	D_{30} = N/A
D_{60} = N/A	D_{15} = N/A
D_{50} = N/A	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

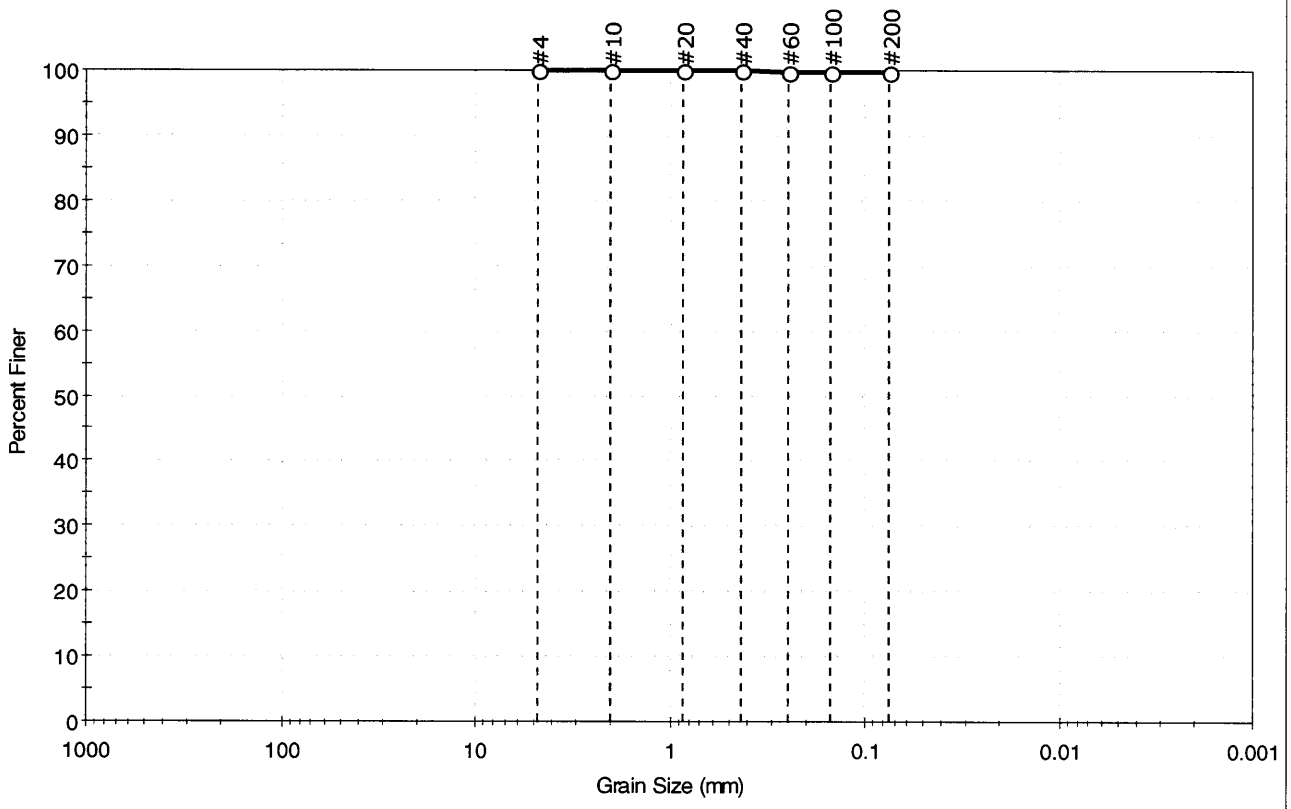
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-107S	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4004-09	Test Date: 06/11/12	Checked By: jdt
Depth :	14-16 ft.	Test Id: 238219	
Test Comment:	---		
Sample Description:	Moist, brown clay		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	0.3	99.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.075	100		

Coefficients

D_{85} = N/A D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

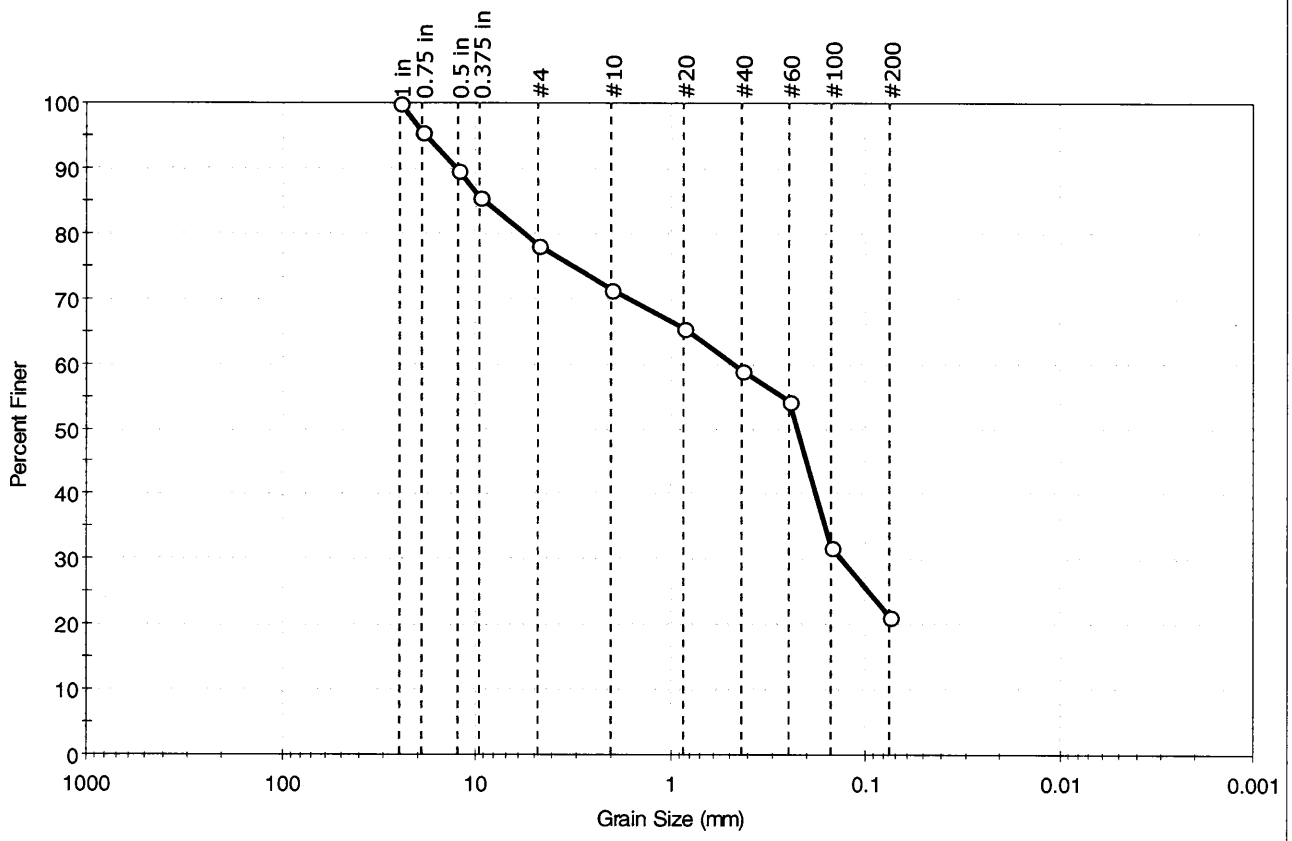
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-107I	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4004-10	Test Date: 06/11/12	Checked By: jdt
Depth :	52-54 ft.	Test Id: 238220	
Test Comment:	---		
Sample Description:	Moist, brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	22.0	56.9	21.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	96		
0.5 in	12.50	90		
0.375 in	9.50	86		
#4	4.75	78		
#10	2.00	71		
#20	0.85	65		
#40	0.42	59		
#60	0.25	54		
#100	0.15	32		
#200	0.075	21		

Coefficients

D_{85} = 9.0348 mm	D_{30} = 0.1335 mm
D_{60} = 0.4724 mm	D_{15} = N/A
D_{50} = 0.2268 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

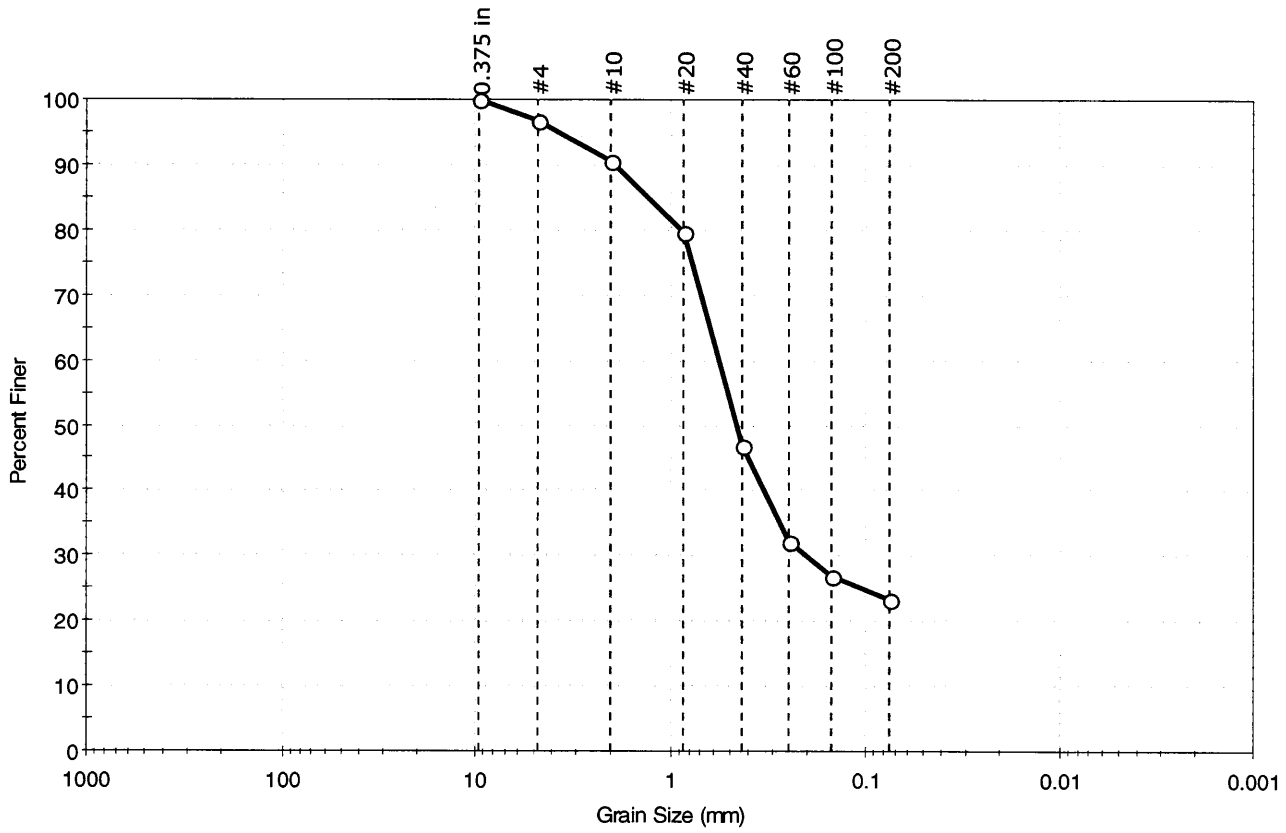
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-107D	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4004-11	Test Date:	06/12/12	Checked By:	jdt
Depth :	100-102 ft.	Test Id:	238221		
Test Comment:	---				
Sample Description:	Moist, grayish brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	3.3	73.3	23.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	97		
#10	2.00	91		
#20	0.85	80		
#40	0.42	47		
#60	0.25	32		
#100	0.15	27		
#200	0.075	23		

Coefficients

D_{85} = 1.2893 mm D_{30} = 0.2034 mm
D_{60} = 0.5605 mm D_{15} = N/A
D_{50} = 0.4535 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

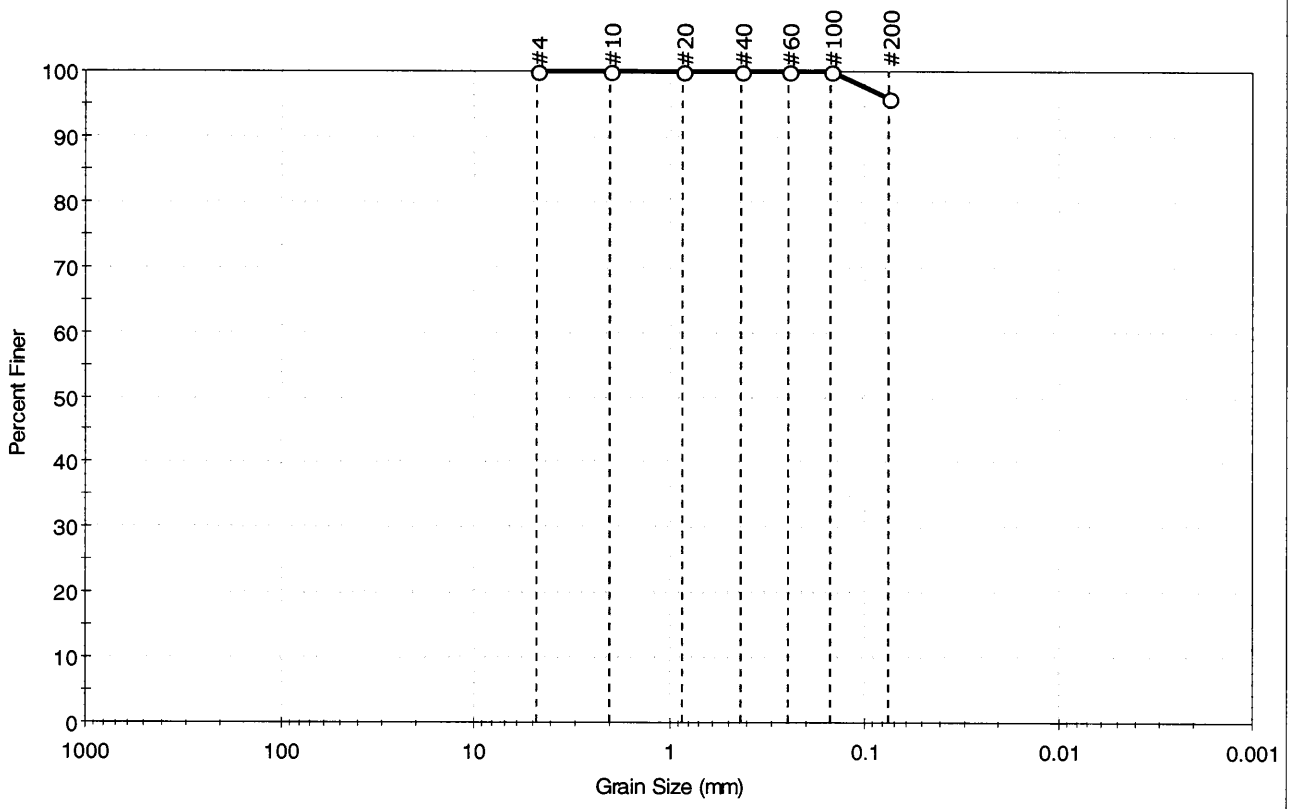
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-107BR	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4004-12	Test Date: 06/12/12	Checked By: jdt
Depth :	28-30 ft.	Test Id: 238222	
Test Comment:	---		
Sample Description:	Moist, brown silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.0	4.2	95.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.075	96		

Coefficients

D_{85} = N/A D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

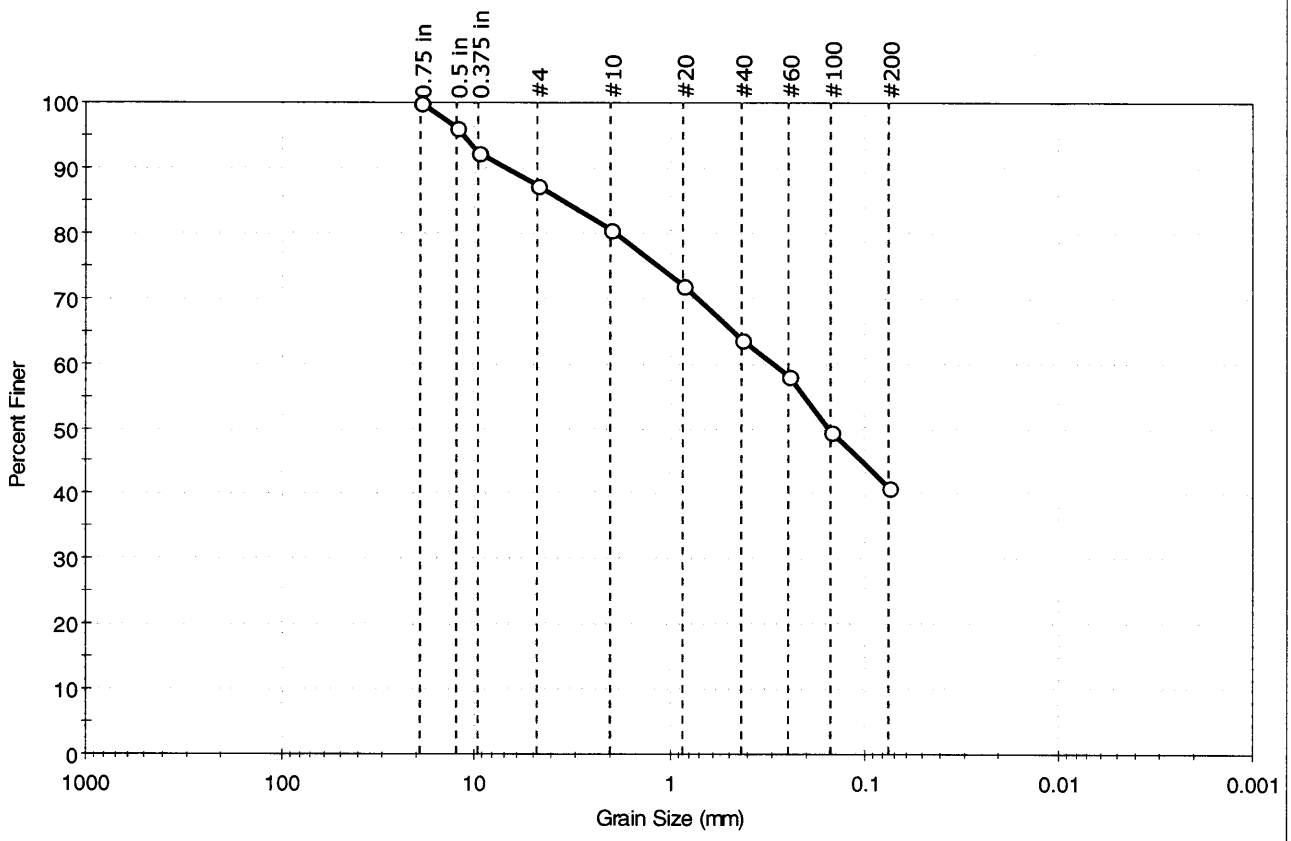
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-107BR	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4005-01	Test Date: 06/12/12	Checked By: jdt
Depth :	68-70 ft.	Test Id: 238235	
Test Comment:	---		
Sample Description:	Moist, reddish brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	12.7	46.4	40.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	96		
0.375 in	9.50	92		
#4	4.75	87		
#10	2.00	80		
#20	0.85	72		
#40	0.42	64		
#60	0.25	58		
#100	0.15	49		
#200	0.075	41		

Coefficients

D_{85} = 3.5492 mm D_{30} = N/A
D_{60} = 0.2983 mm D_{15} = N/A
D_{50} = 0.1552 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

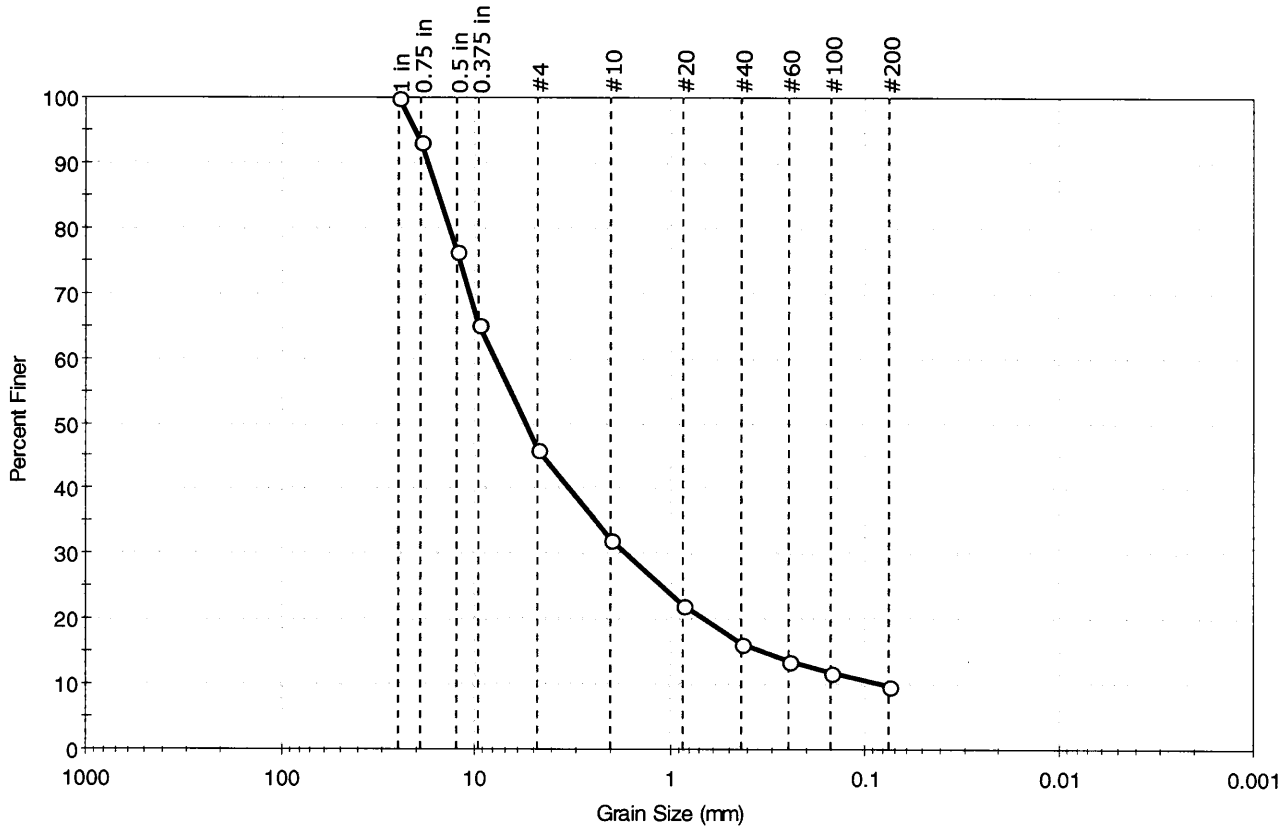
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-107BR	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4005-02	Test Date: 06/12/12	Checked By: jdt
Depth :	78-80 ft.	Test Id: 238236	
Test Comment:	---		
Sample Description:	Moist, grayish brown gravel with silt and sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	54.1	36.2	9.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	93		
0.5 in	12.50	77		
0.375 in	9.50	65		
#4	4.75	46		
#10	2.00	32		
#20	0.85	22		
#40	0.42	16		
#60	0.25	14		
#100	0.15	12		
#200	0.075	10		

Coefficients

D_{85} = 15.4495 mm D_{30} = 1.6718 mm
D_{60} = 7.8783 mm D_{15} = 0.3272 mm
D_{50} = 5.5019 mm D_{10} = 0.0826 mm
C_u = 95.379 C_c = 4.295

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

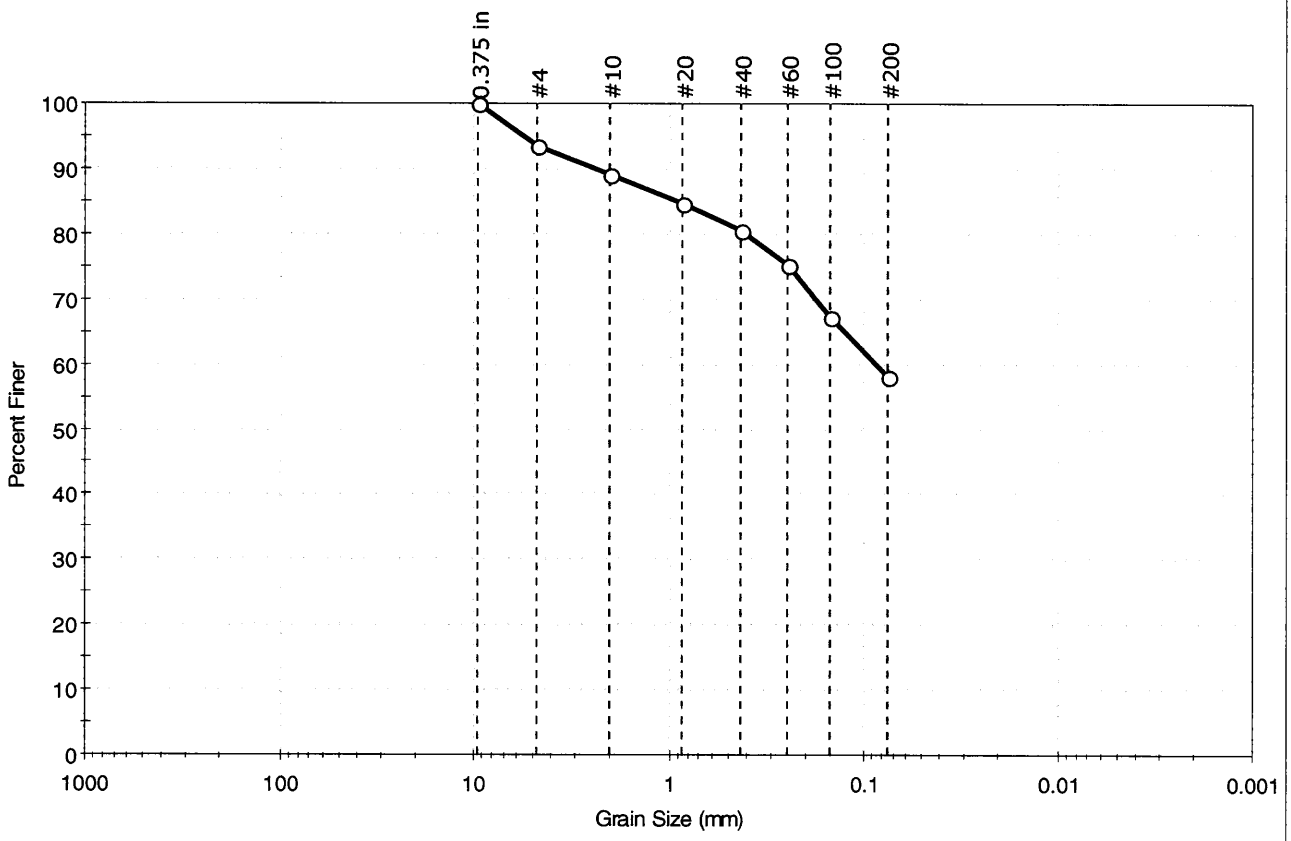
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-107BR	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4005-03	Test Date:	06/12/12	Checked By:	jdt
Depth :	108-110 ft.	Test Id:	238237		
Test Comment:	---				
Sample Description:	Moist, brown sandy silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	6.4	35.4	58.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	94		
#10	2.00	89		
#20	0.85	85		
#40	0.42	80		
#60	0.25	75		
#100	0.15	67		
#200	0.075	58		

Coefficients

D_{85} = 0.8913 mm	D_{30} = N/A
D_{60} = 0.0860 mm	D_{15} = N/A
D_{50} = N/A	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

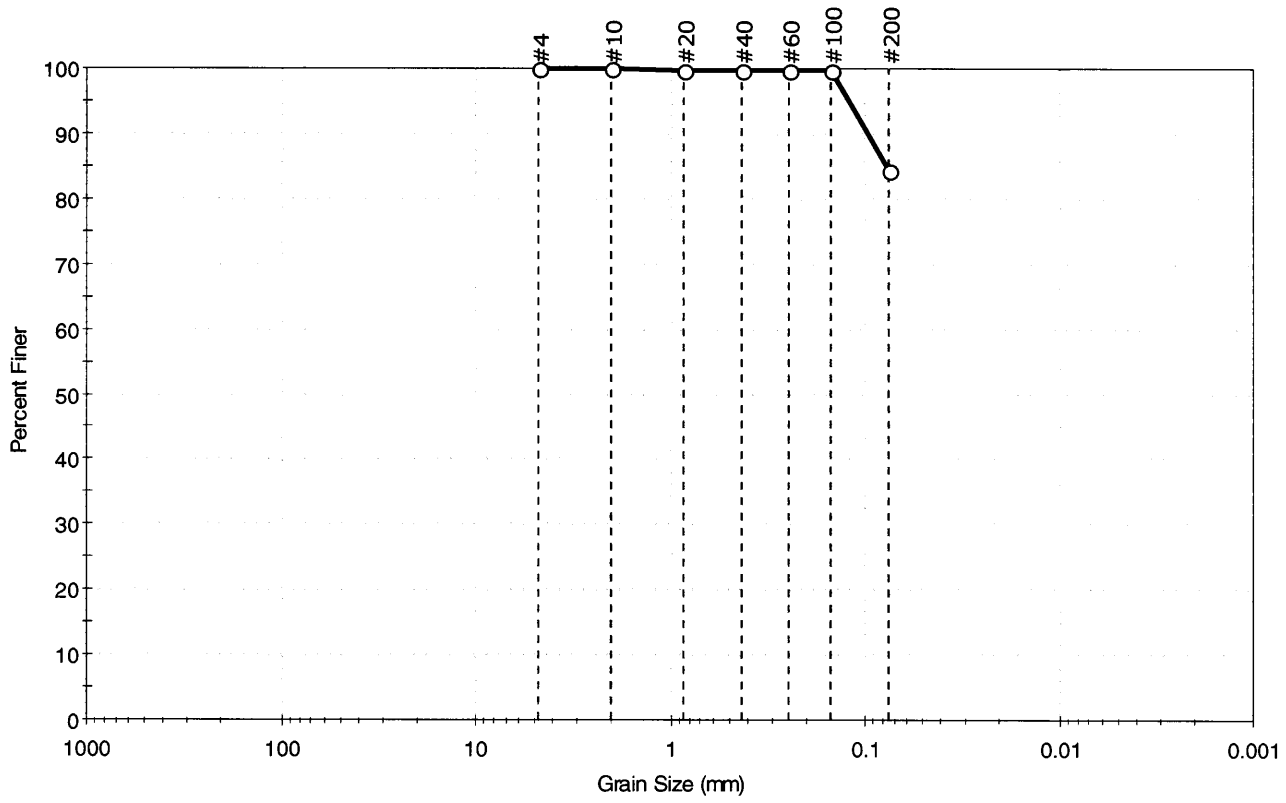
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-108S	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4005-04	Test Date:	06/12/12	Checked By:	jdt
Depth :	19-21 ft.	Test Id:	238238		
Test Comment:	---				
Sample Description:	Moist, olive brown silt with sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.0	15.5	84.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.075	84		

Coefficients

D_{85} = 0.0768 mm	D_{30} = N/A
D_{60} = N/A	D_{15} = N/A
D_{50} = N/A	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

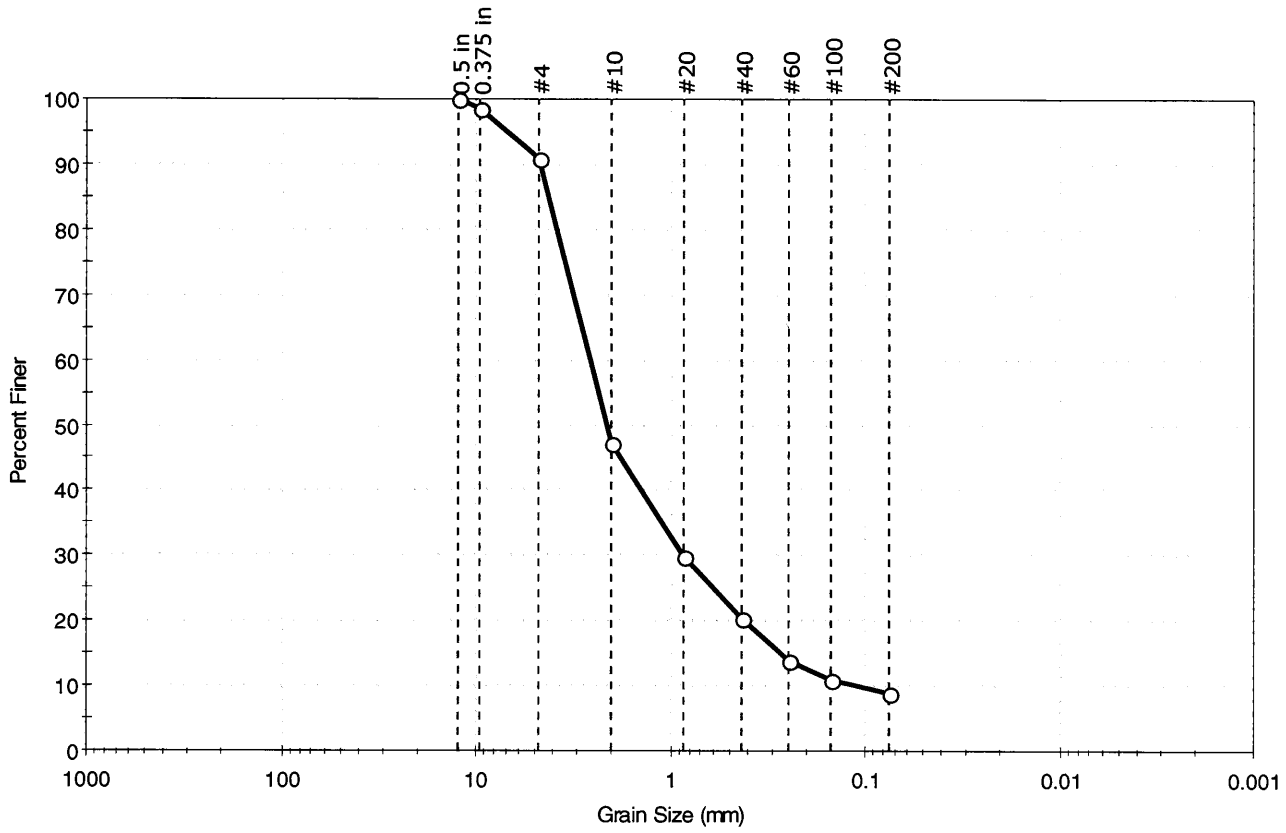
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-108D	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4005-05	Test Date:	06/12/12	Checked By:	jdt
Depth :	54-56 ft.	Test Id:	238239		
Test Comment:	---				
Sample Description:	Moist, brown sand with silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	9.0	82.2	8.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	98		
#4	4.75	91		
#10	2.00	47		
#20	0.85	30		
#40	0.42	20		
#60	0.25	14		
#100	0.15	11		
#200	0.075	9		

Coefficients

D_{85} = 4.2251 mm	D_{30} = 0.8547 mm
D_{60} = 2.5800 mm	D_{15} = 0.2750 mm
D_{50} = 2.1180 mm	D_{10} = 0.1117 mm
C_u = 23.098	C_c = 2.535

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

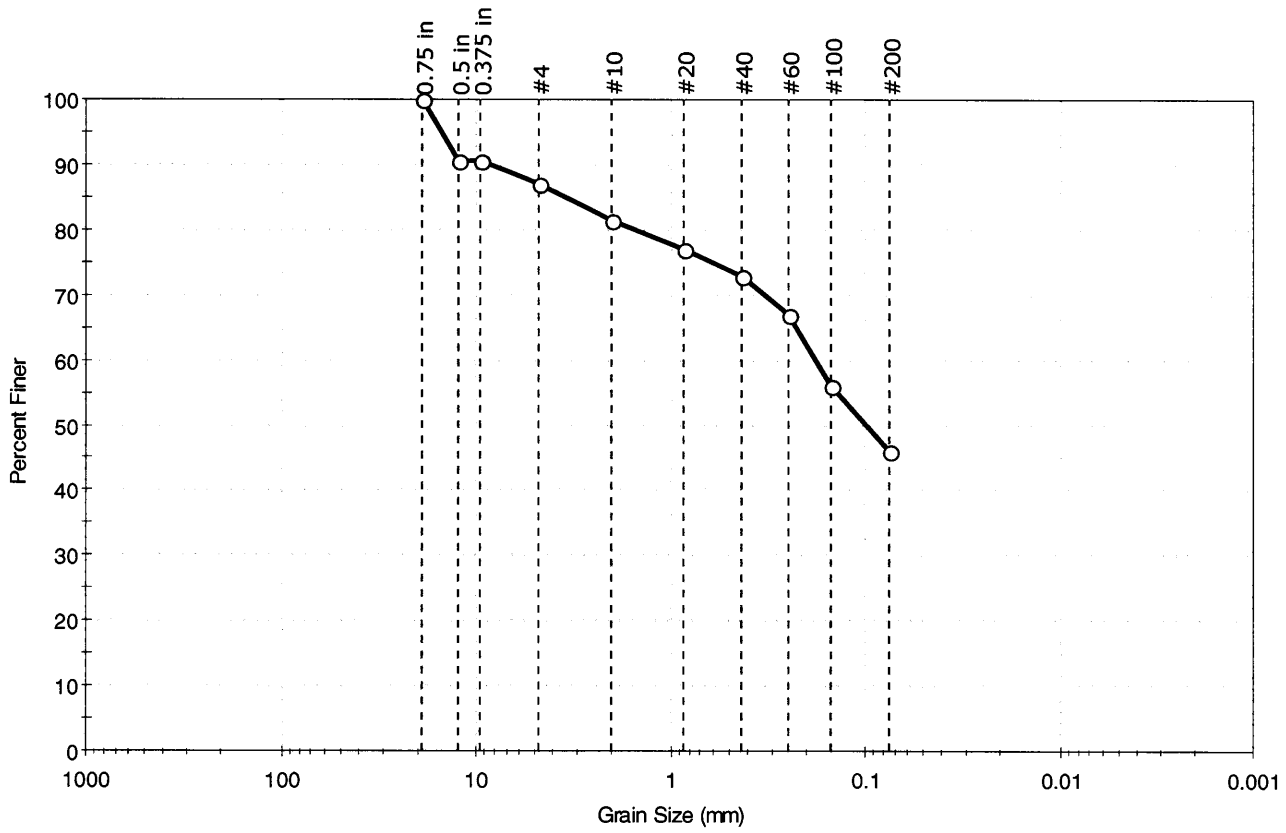
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-108BR	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4005-06	Test Date:	06/06/12	Checked By:	jdt
Depth :	32-34 ft.	Test Id:	238240		
Test Comment:	---				
Sample Description:	Moist, brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	13.1	40.8	46.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	91		
0.375 in	9.50	91		
#4	4.75	87		
#10	2.00	81		
#20	0.85	77		
#40	0.42	73		
#60	0.25	67		
#100	0.15	56		
#200	0.075	46		

Coefficients

D_{85} = 3.5114 mm D_{30} = N/A
D_{60} = 0.1810 mm D_{15} = N/A
D_{50} = 0.0986 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

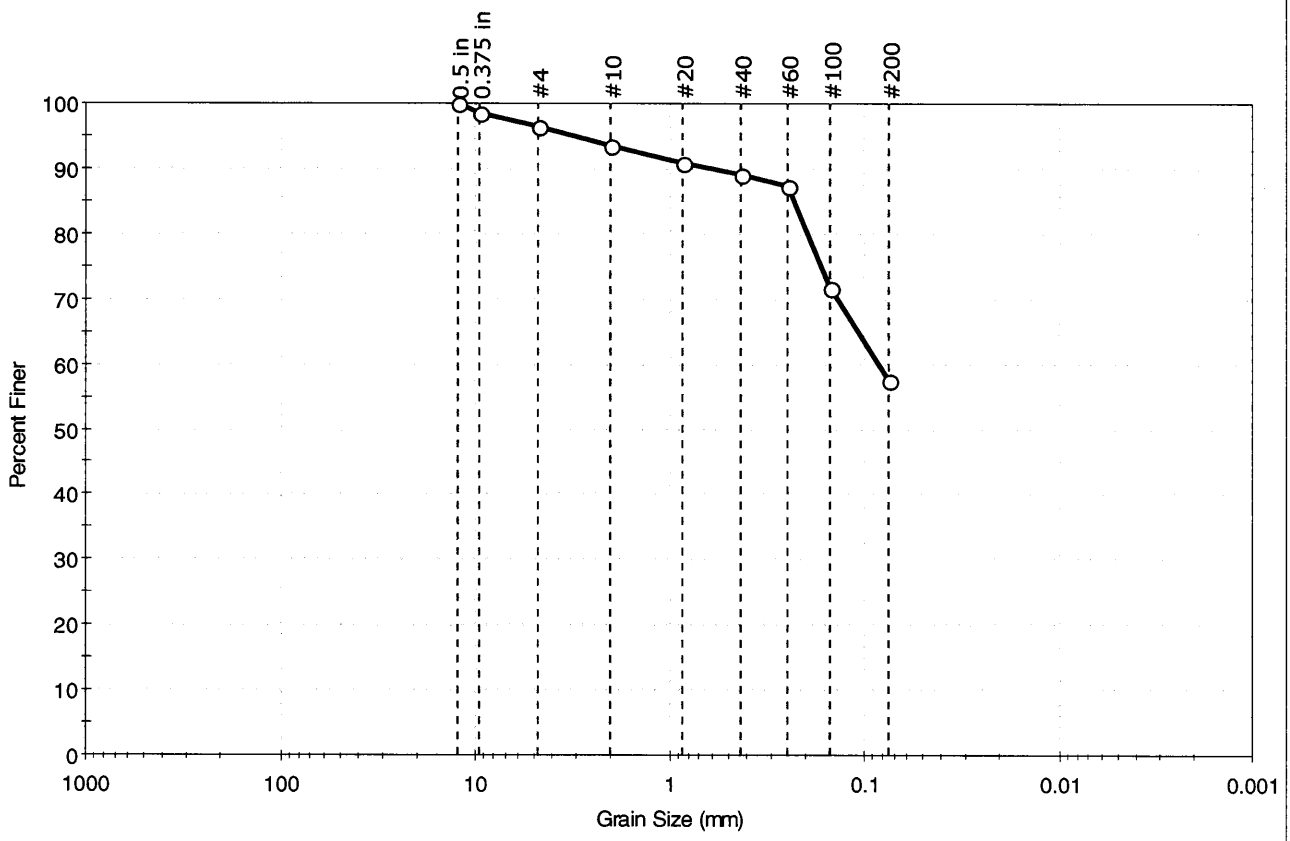
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-108BR	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4005-07	Test Date: 06/12/12	Checked By: jdt
Depth :	66-68 ft.	Test Id: 238241	
Test Comment:	---		
Sample Description:	Moist, brown sandy silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	3.7	38.9	57.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	99		
#4	4.75	96		
#10	2.00	93		
#20	0.85	91		
#40	0.42	89		
#60	0.25	87		
#100	0.15	72		
#200	0.075	57		

Coefficients

D_{85} = 0.2313 mm	D_{30} = N/A
D_{60} = 0.0849 mm	D_{15} = N/A
D_{50} = N/A	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

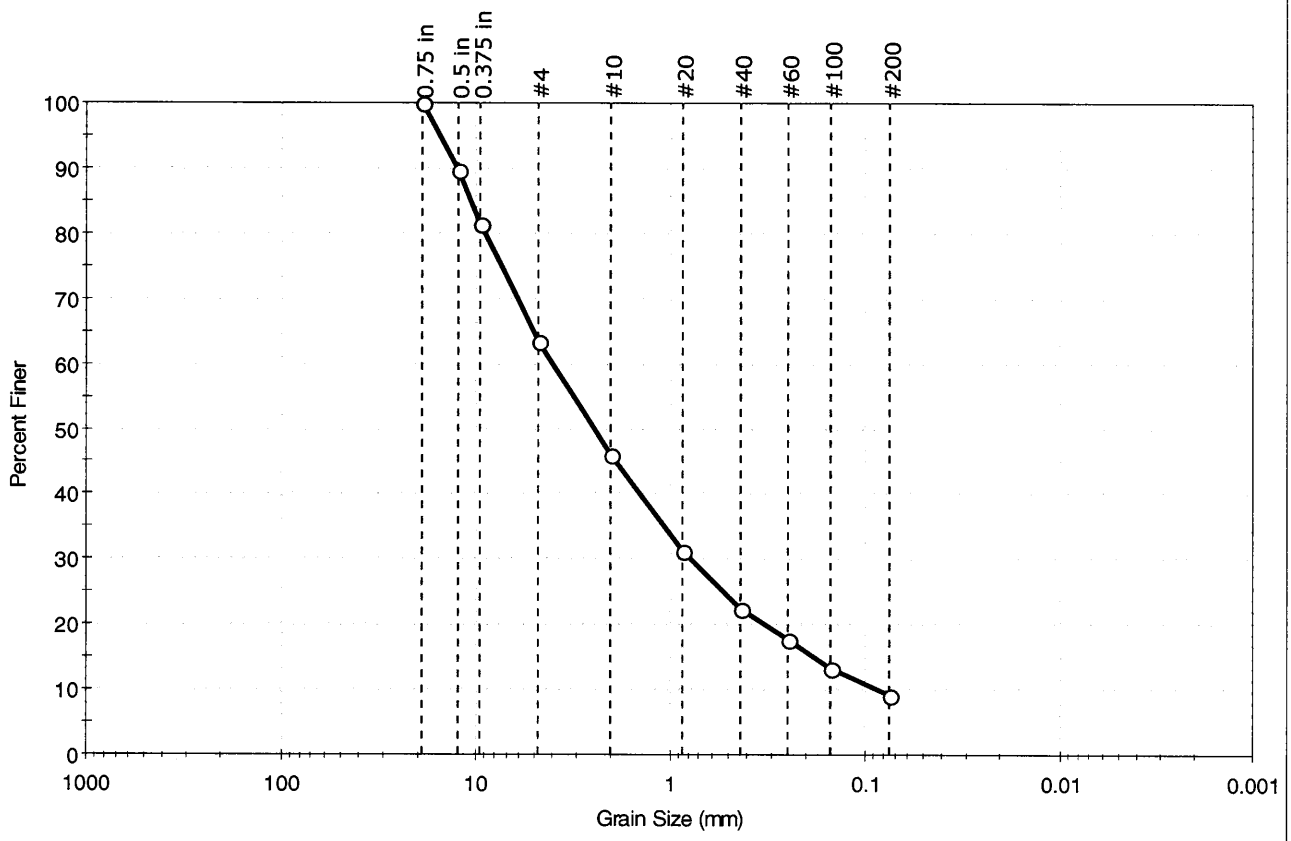
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-109S	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4005-08	Test Date: 06/13/12	Checked By: jdt
Depth :	10-12 ft.	Test Id: 238242	
Test Comment:	---		
Sample Description:	Moist, black sand with silt and gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	36.4	54.4	9.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	90		
0.375 in	9.50	81		
#4	4.75	64		
#10	2.00	46		
#20	0.85	31		
#40	0.42	23		
#60	0.25	18		
#100	0.15	13		
#200	0.075	9		

Coefficients

D_{85} = 10.7156 mm	D_{30} = 0.7663 mm
D_{60} = 3.9845 mm	D_{15} = 0.1832 mm
D_{50} = 2.4325 mm	D_{10} = 0.0858 mm
C_u = 46.439	C_c = 1.718

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

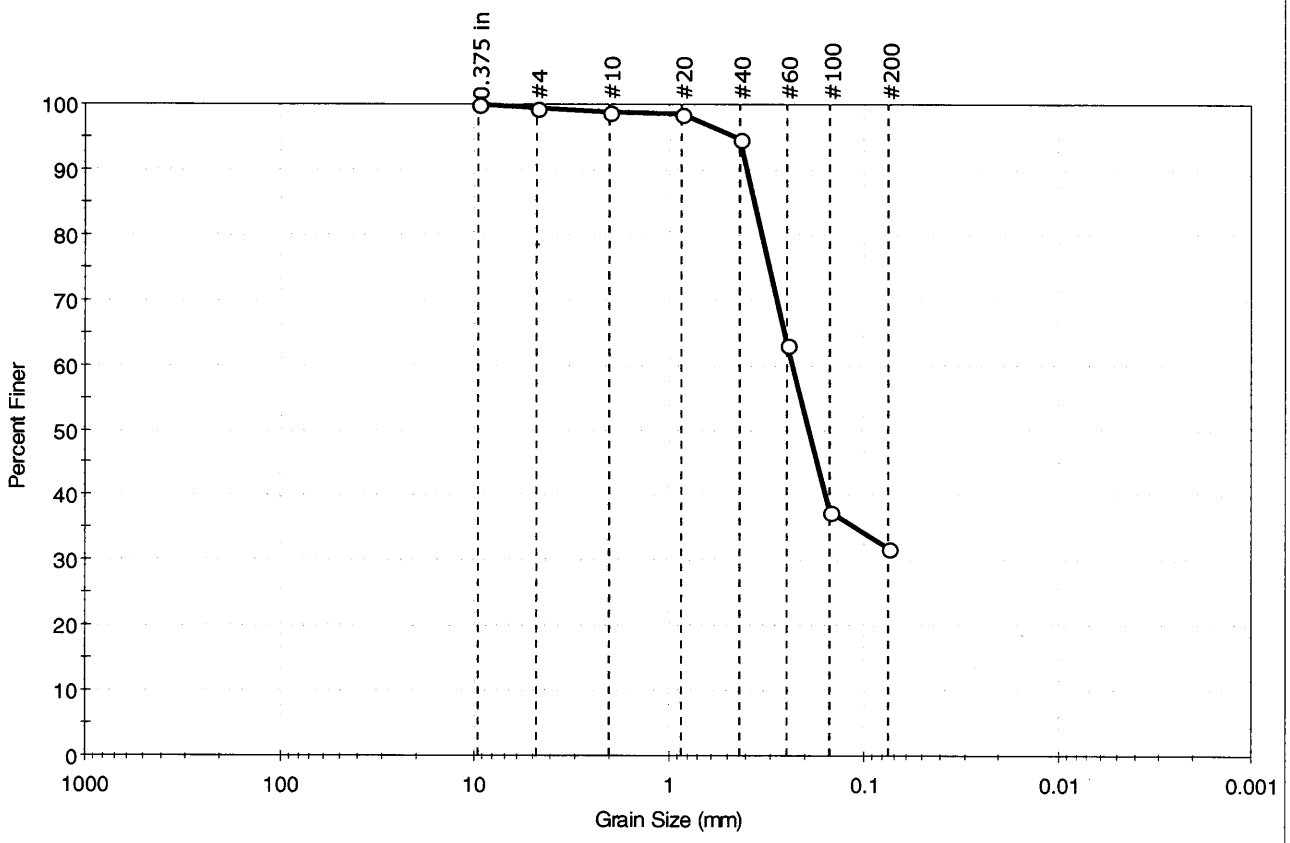
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-109I	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4005-09	Test Date:	06/12/12	Checked By:	jdt
Depth :	24-26 ft.	Test Id:	238243		
Test Comment:	---				
Sample Description:	Moist, brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.6	67.5	31.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	99		
#20	0.85	98		
#40	0.42	95		
#60	0.25	63		
#100	0.15	37		
#200	0.075	32		

Coefficients

D_{85} = 0.3604 mm	D_{30} = N/A
D_{60} = 0.2344 mm	D_{15} = N/A
D_{50} = 0.1923 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

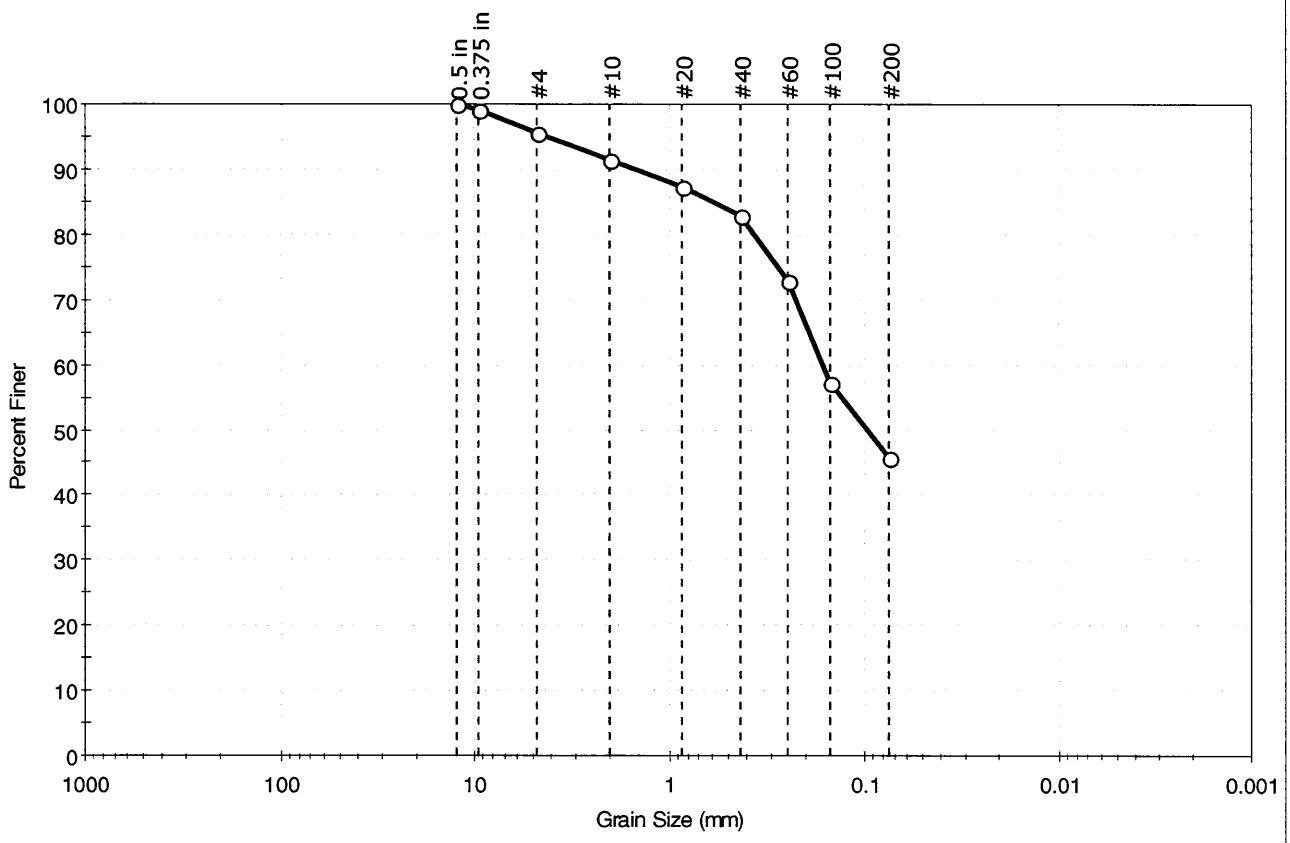
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-109I	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4005-10	Test Date:	06/06/12	Checked By:	jdt
Depth :	48-50 ft.	Test Id:	238244		
Test Comment:	---				
Sample Description:	Moist, brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	4.5	49.7	45.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	99		
#4	4.75	96		
#10	2.00	91		
#20	0.85	87		
#40	0.42	83		
#60	0.25	73		
#100	0.15	57		
#200	0.075	46		

Coefficients

D_{85} = 0.5933 mm D_{30} = N/A
D_{60} = 0.1646 mm D_{15} = N/A
D_{50} = 0.0968 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

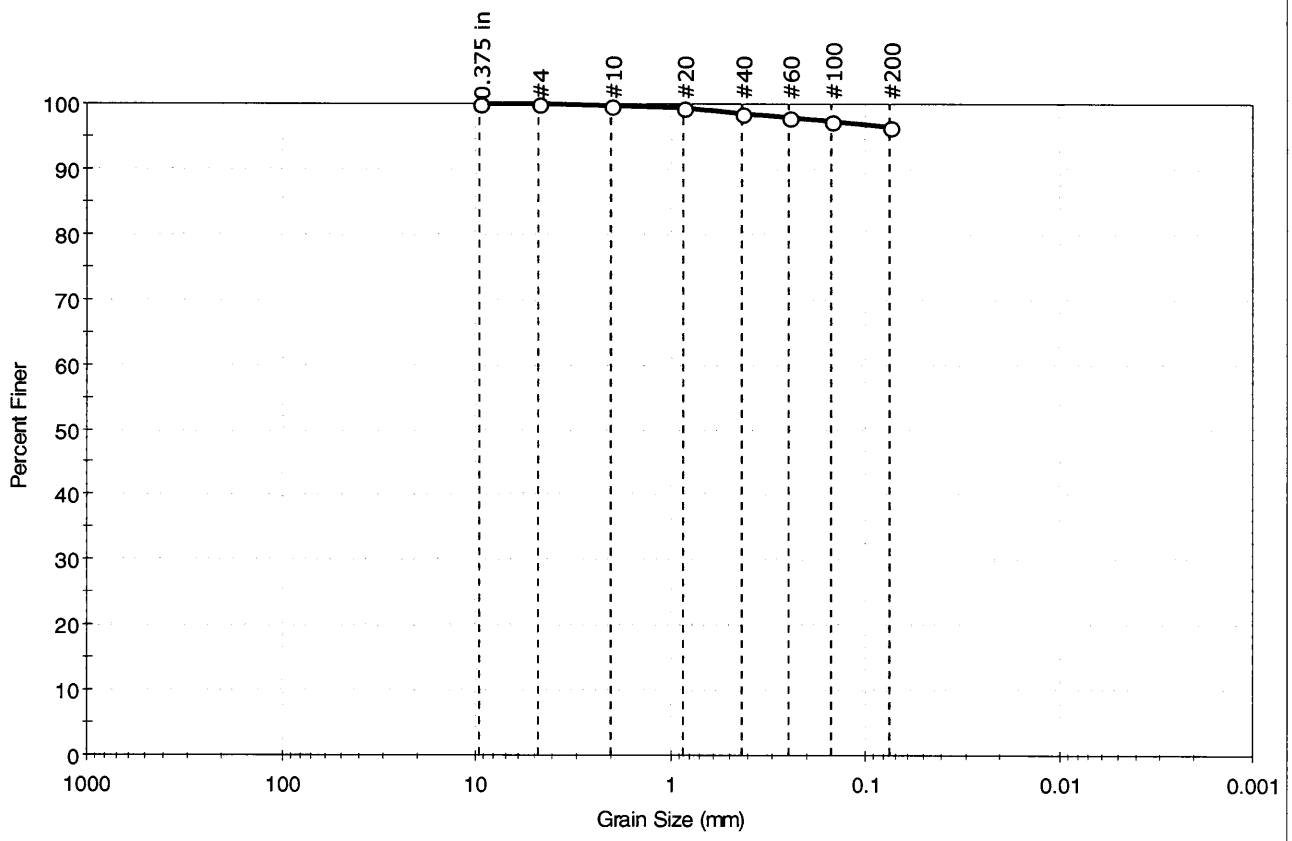
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-110BR	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4005-11	Test Date:	06/13/12	Checked By:	jdt
Depth :	12-14 ft.	Test Id:	238245		
Test Comment:	---				
Sample Description:	Moist, brown clay				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
--	0.1	3.6	96.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	99		
#60	0.25	98		
#100	0.15	97		
#200	0.075	96		

Coefficients

D_{85} = N/A D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

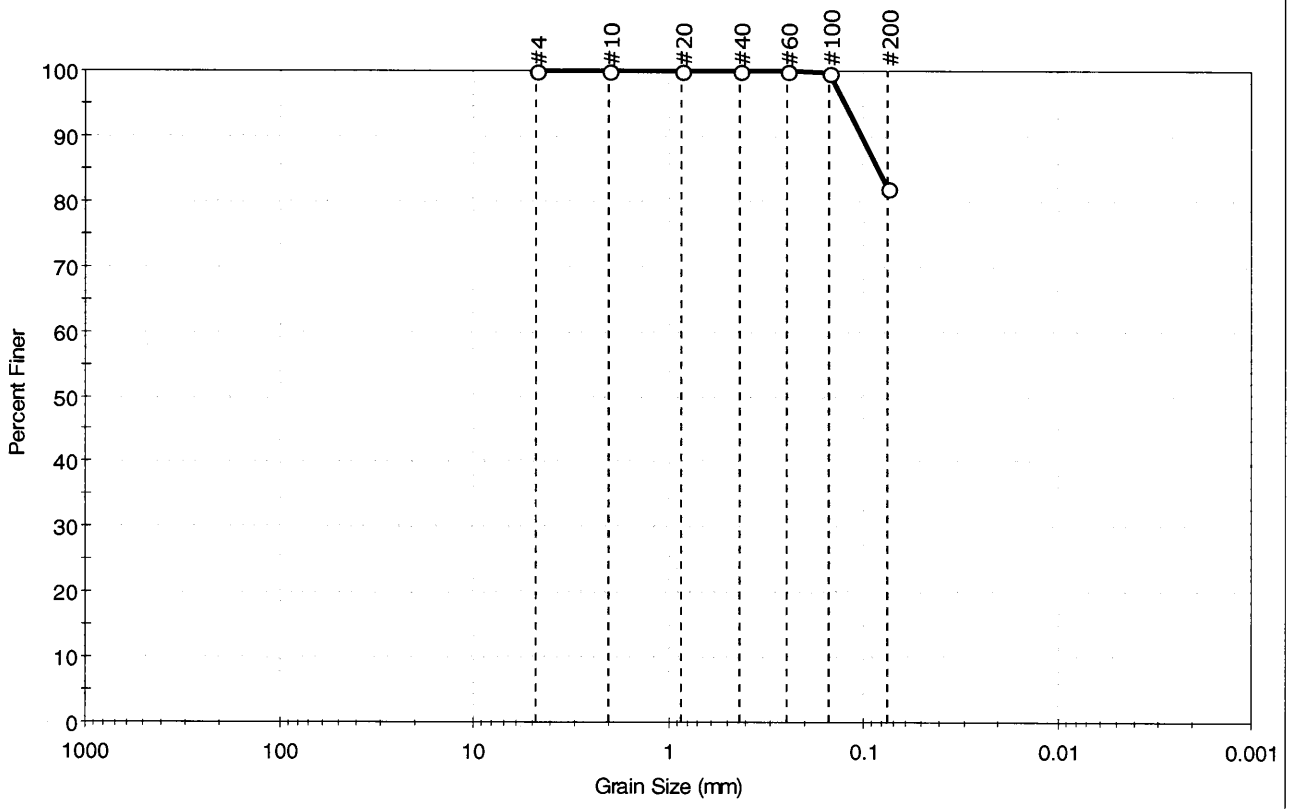
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-111S	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4005-12	Test Date:	06/13/12	Checked By:	jdt
Depth :	17-19 ft.	Test Id:	238246		
Test Comment:	---				
Sample Description:	Moist, brown silt with sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	18.0	82.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.075	82		

Coefficients

D_{85} = 0.0842 mm D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

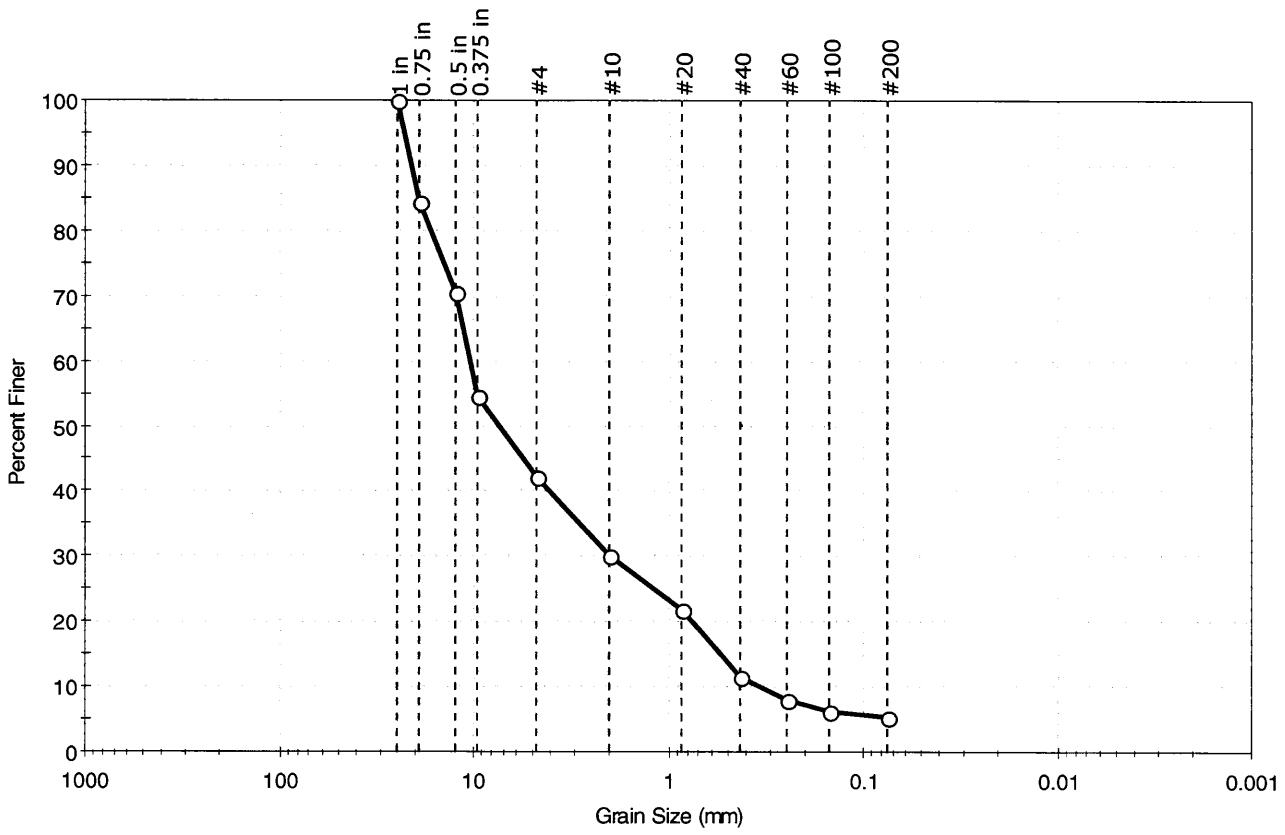
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-111I	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4006-01	Test Date: 06/11/12	Checked By: jdt
Depth :	58-60 ft.	Test Id: 238261	
Test Comment:	---		
Sample Description:	Dry, grayish brown gravel with silt and sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	57.9	36.9	5.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	84		
0.5 in	12.50	70		
0.375 in	9.50	55		
#4	4.75	42		
#10	2.00	30		
#20	0.85	22		
#40	0.42	12		
#60	0.25	8		
#100	0.15	6		
#200	0.075	5		

Coefficients

D_{85} = 19.1991 mm D_{30} = 1.9690 mm
D_{60} = 10.4309 mm D_{15} = 0.5340 mm
D_{50} = 7.3564 mm D_{10} = 0.3380 mm
C_u = 30.861 C_c = 1.100

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

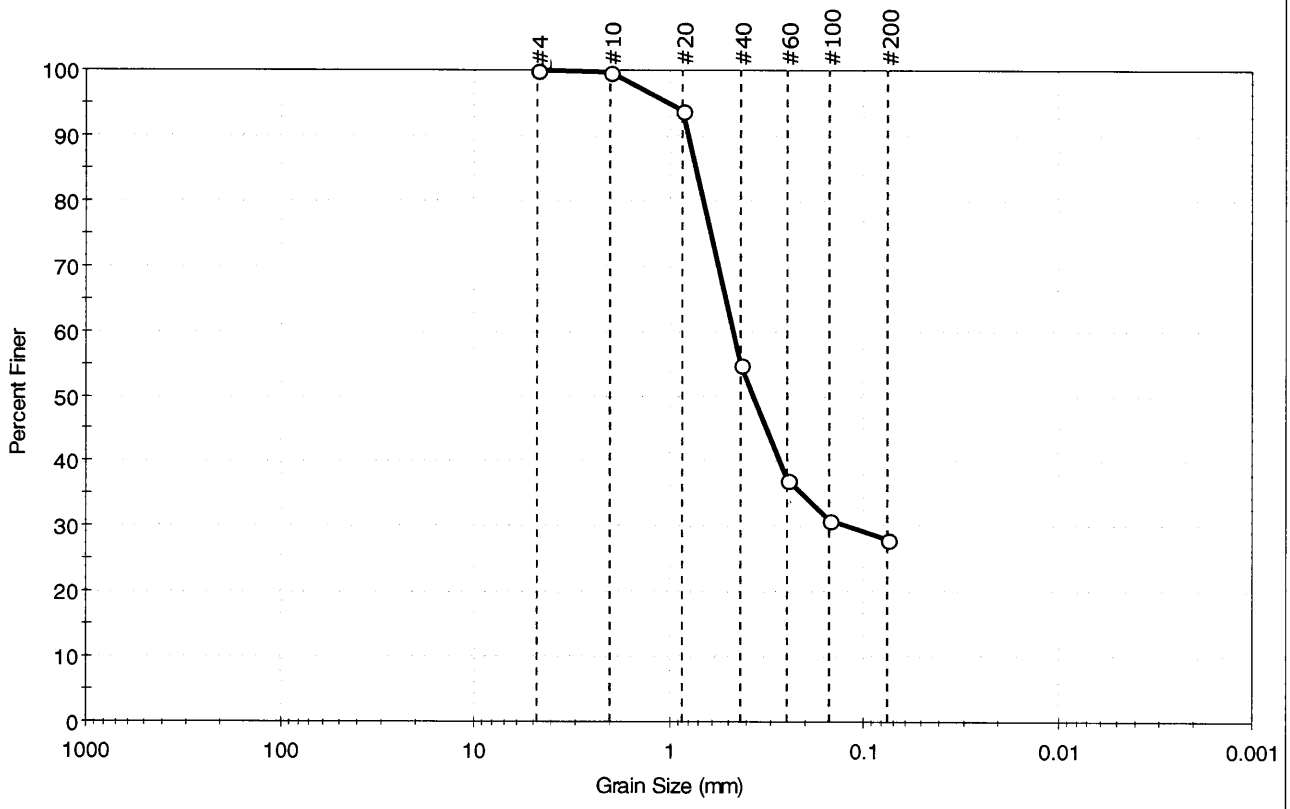
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-111D	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4006-02	Test Date: 06/13/12	Checked By: jdt
Depth :	89-91 ft.	Test Id: 238262	
Test Comment:	---		
Sample Description:	Moist, brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	71.8	28.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	94		
#40	0.42	55		
#60	0.25	37		
#100	0.15	31		
#200	0.075	28		

Coefficients

D_{85} = 0.7255 mm	D_{30} = 0.1173 mm
D_{60} = 0.4645 mm	D_{15} = N/A
D_{50} = 0.3665 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

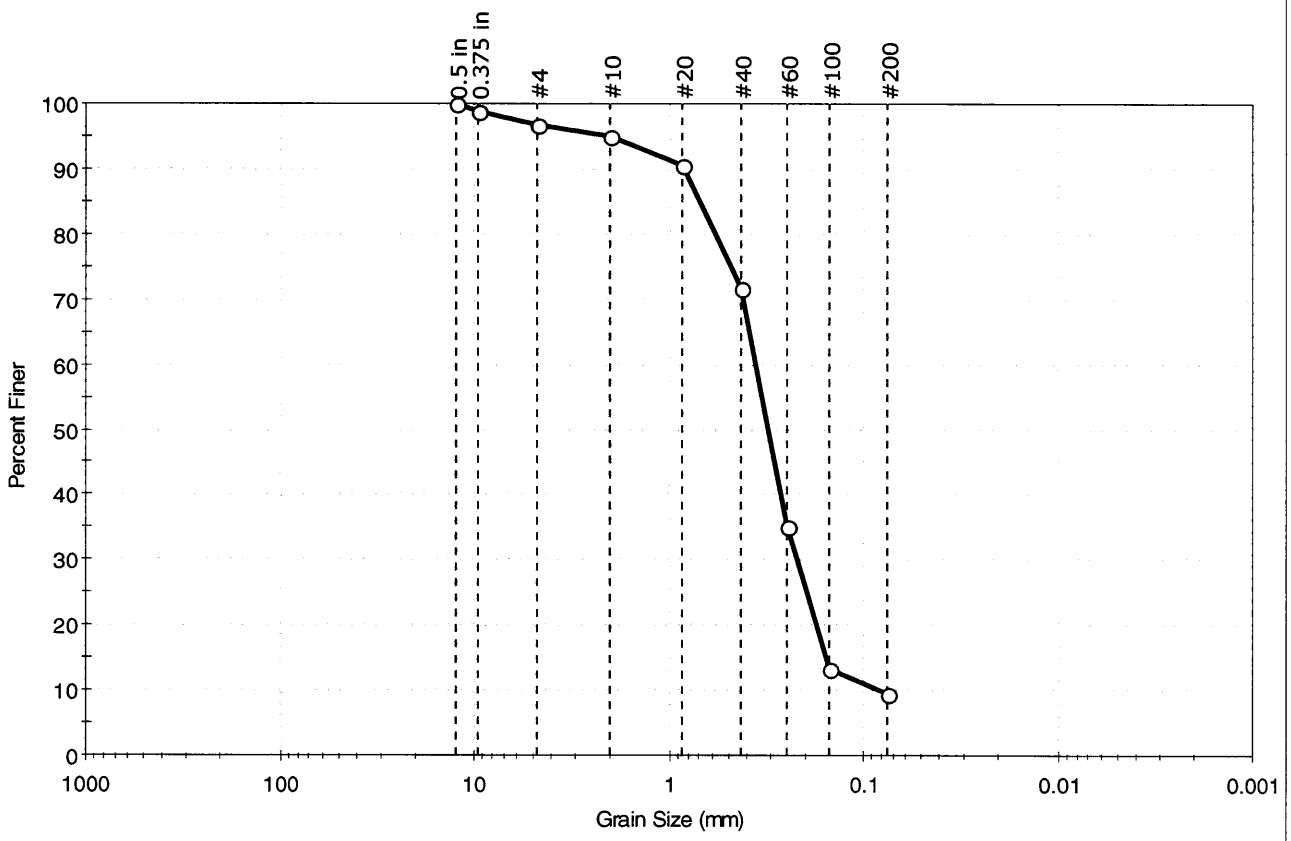
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-111BR	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4006-03	Test Date: 06/13/12	Checked By: jdt
Depth :	35-37 ft.	Test Id: 238263	
Test Comment:	---		
Sample Description:	Moist, brown sand with silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	3.2	87.2	9.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	99		
#4	4.75	97		
#10	2.00	95		
#20	0.85	91		
#40	0.42	72		
#60	0.25	35		
#100	0.15	13		
#200	0.075	10		

Coefficients

D_{85} = 0.6932 mm	D_{30} = 0.2223 mm
D_{60} = 0.3588 mm	D_{15} = 0.1564 mm
D_{50} = 0.3105 mm	D_{10} = 0.0816 mm
C_u = 4.397	C_c = 1.688

Classification

ASTM N/A

AASHTO Fine Sand (A-3 (0))

Sample/Test Description

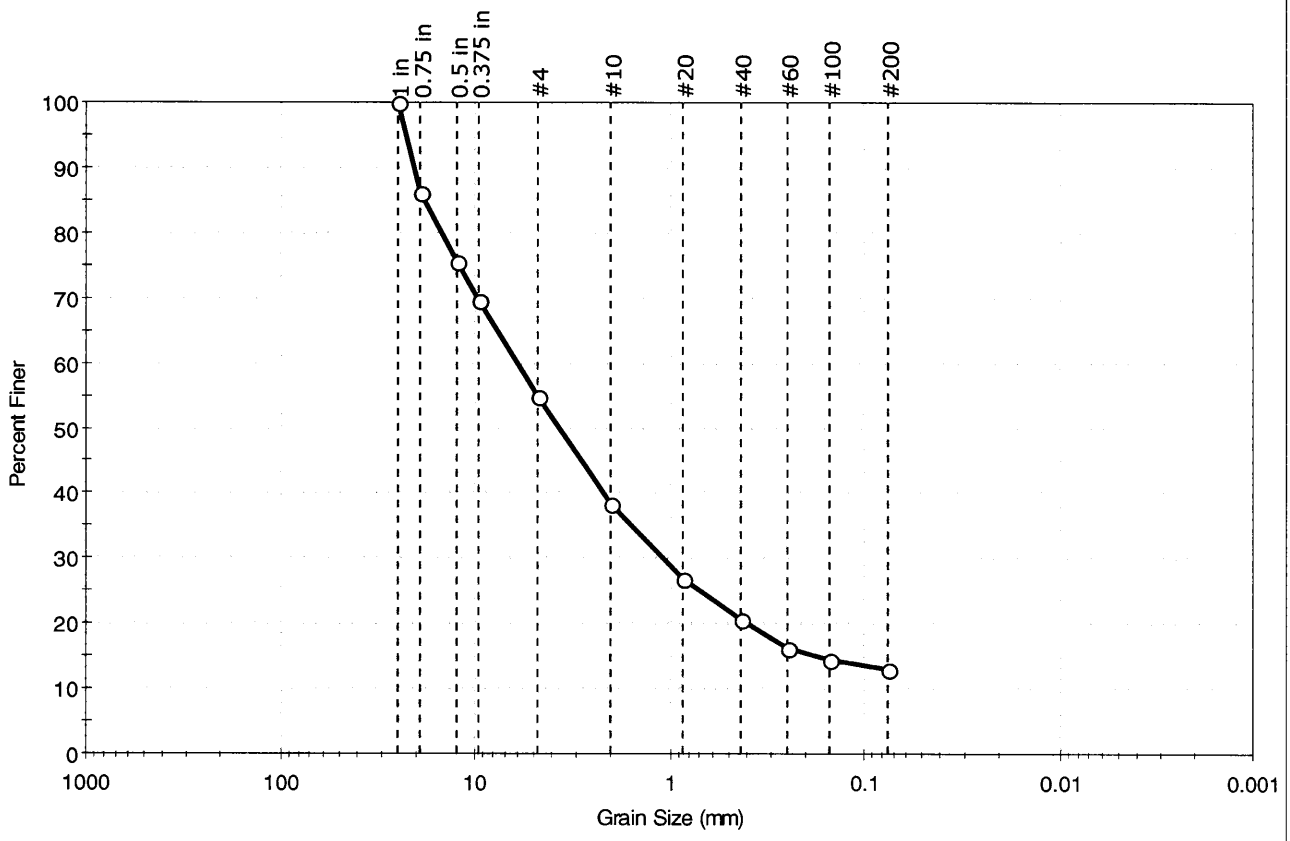
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-111BR	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4006-04	Test Date:	06/13/12	Checked By:	jdt
Depth :	75-77 ft.	Test Id:	238264		
Test Comment:	---				
Sample Description:	Moist, grayish brown silty gravel with sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	45.0	42.1	12.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	86		
0.5 in	12.50	75		
0.375 in	9.50	70		
#4	4.75	55		
#10	2.00	38		
#20	0.85	27		
#40	0.42	21		
#60	0.25	16		
#100	0.15	14		
#200	0.075	13		

Coefficients

D_{85} = 18.2376 mm	D_{30} = 1.0760 mm
D_{60} = 6.0255 mm	D_{15} = 0.1794 mm
D_{50} = 3.6668 mm	D_{10} = 0.0195 mm
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

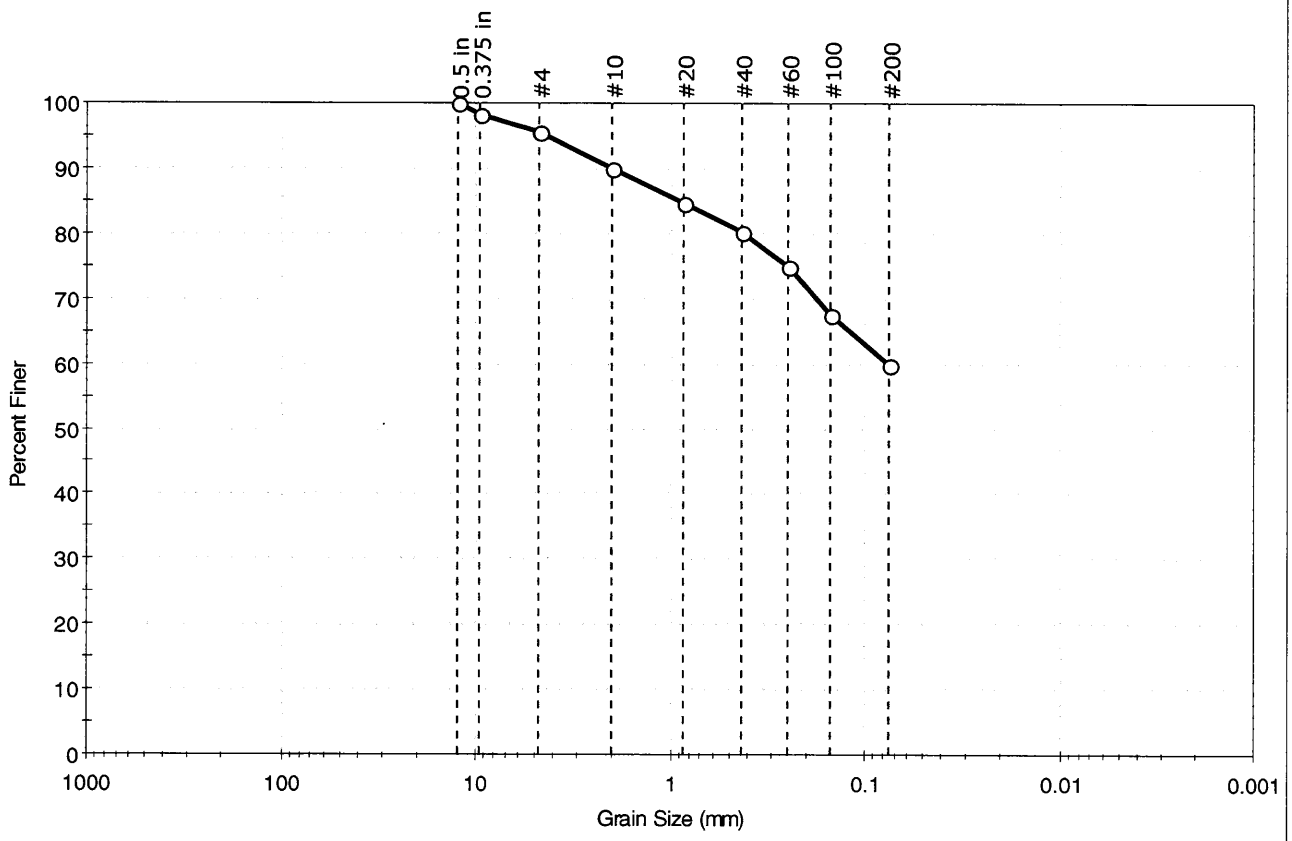
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-111BR	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4006-05	Test Date:	06/11/12	Checked By:	jdt
Depth :	99-101 ft.	Test Id:	238265		
Test Comment:	---				
Sample Description:	Moist, brown sandy clay				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	4.5	35.5	60.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	98		
#4	4.75	95		
#10	2.00	90		
#20	0.85	85		
#40	0.42	80		
#60	0.25	75		
#100	0.15	68		
#200	0.075	60		

Coefficients

D_{85} = 0.8932 mm	D_{30} = N/A
D_{60} = N/A	D_{15} = N/A
D_{50} = N/A	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

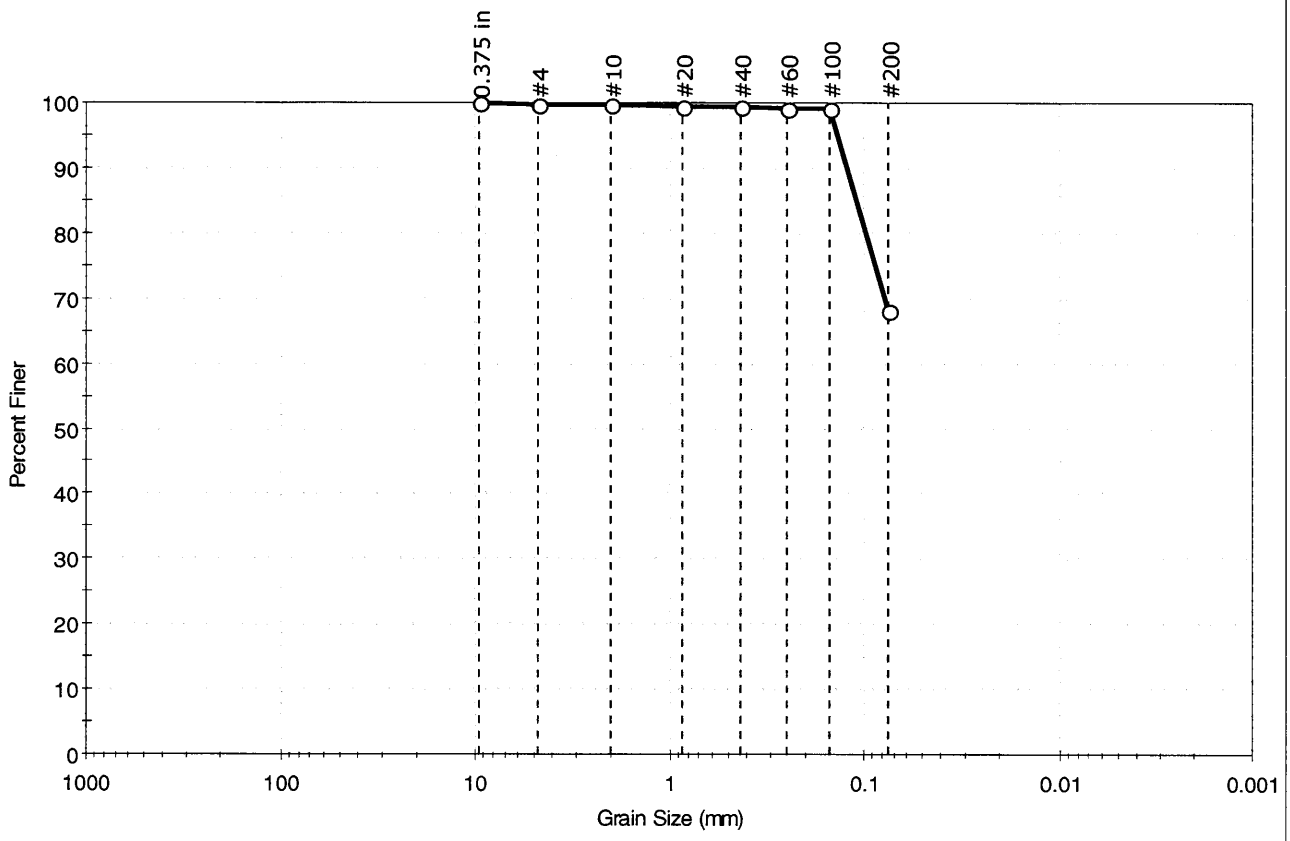
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-112S	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4006-06	Test Date: 06/13/12	Checked By: jdt
Depth :	16-18 ft.	Test Id: 238266	
Test Comment:	---		
Sample Description:	Moist, brown sandy silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.2	31.7	68.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	99		
#200	0.075	68		

Coefficients

D_{85} = 0.1095 mm D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

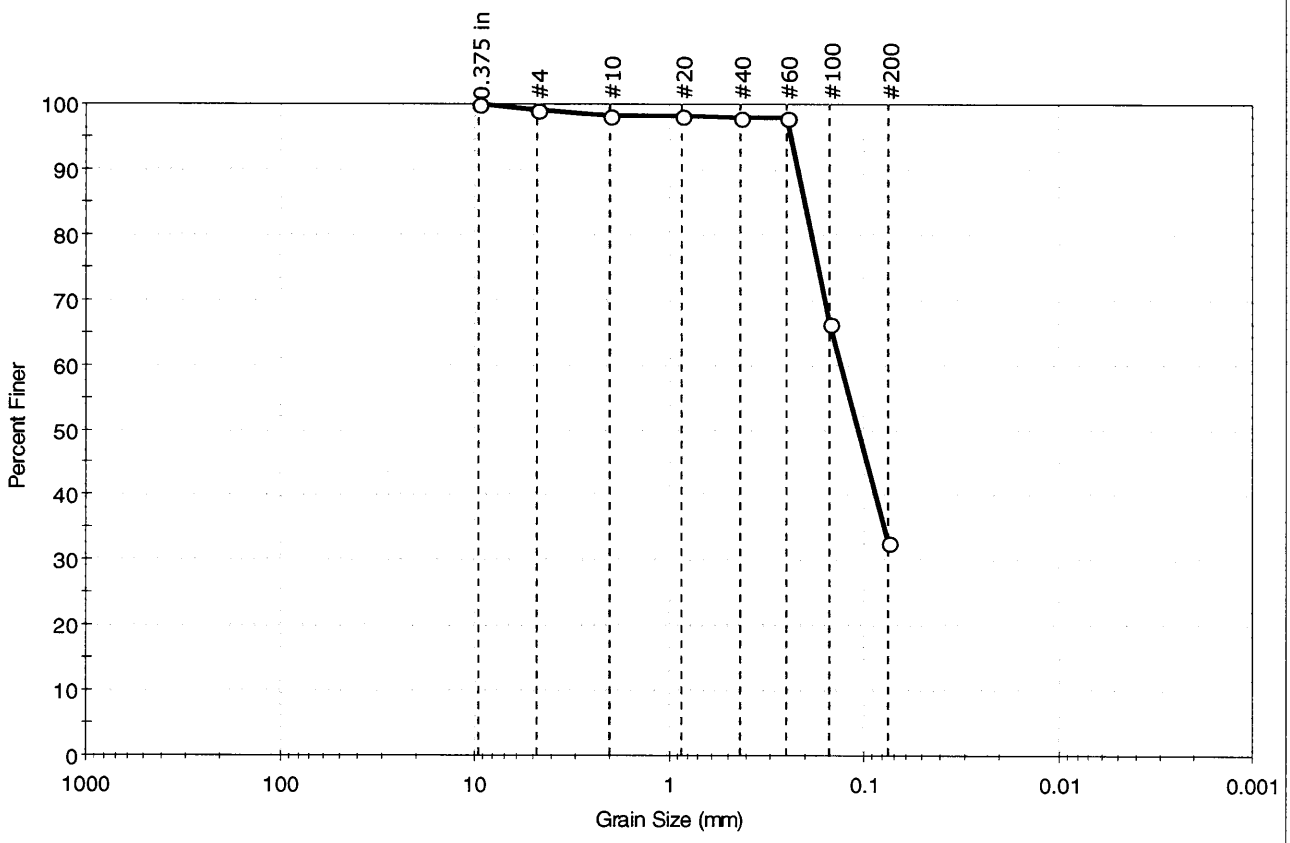
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-112I	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4006-07	Test Date: 06/13/12	Checked By: jdt
Depth :	40-42 ft.	Test Id: 238267	
Test Comment:	---		
Sample Description:	Moist, brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.8	66.4	32.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	98		
#20	0.85	98		
#40	0.42	98		
#60	0.25	98		
#100	0.15	66		
#200	0.075	33		

Coefficients

D_{85} = 0.2029 mm	D_{30} = N/A
D_{60} = 0.1315 mm	D_{15} = N/A
D_{50} = 0.1070 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

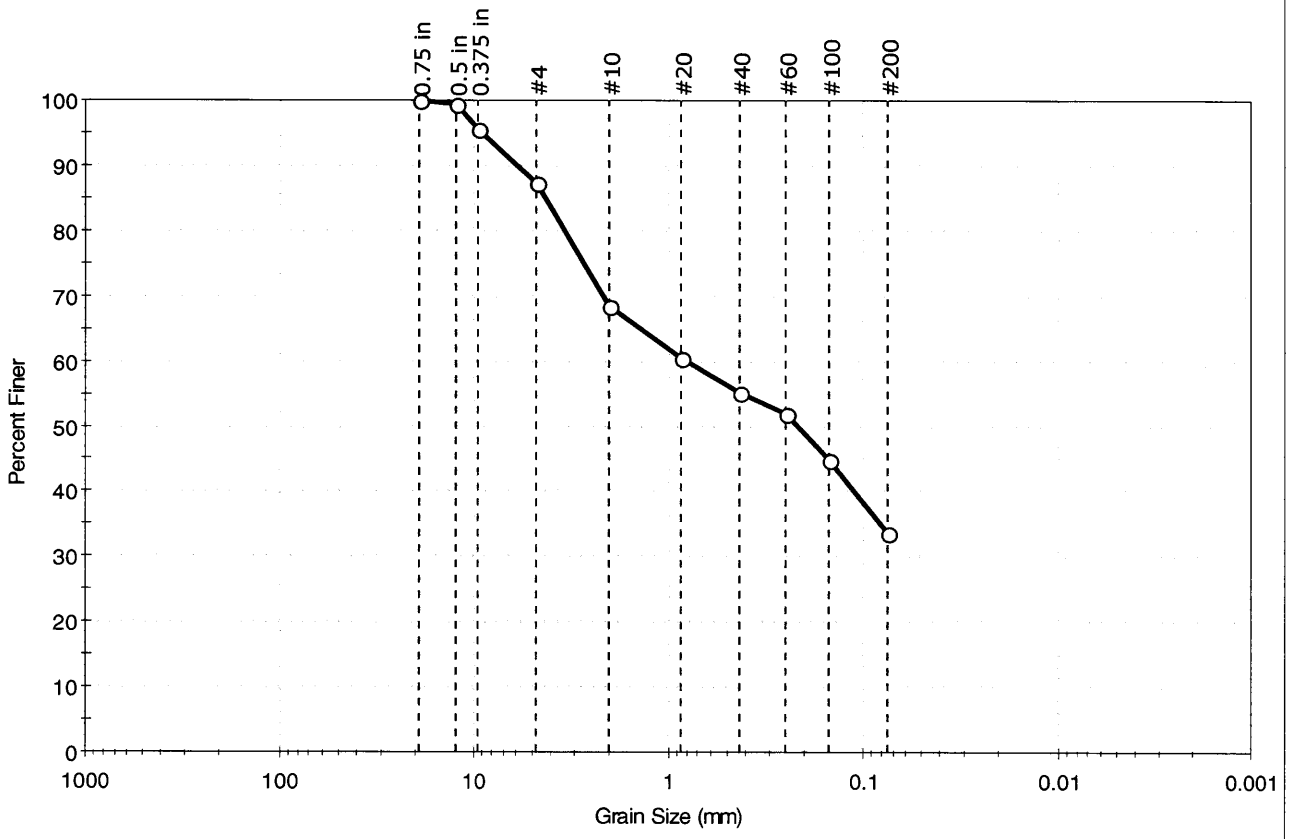
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-112I	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4006-08	Test Date:	06/13/12	Checked By:	jdt
Depth :	52-54 ft.	Test Id:	238268		
Test Comment:	---				
Sample Description:	Moist, olive brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	12.7	53.5	33.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	99		
0.375 in	9.50	96		
#4	4.75	87		
#10	2.00	68		
#20	0.85	60		
#40	0.42	55		
#60	0.25	52		
#100	0.15	45		
#200	0.075	34		

Coefficients

D_{85} = 4.2749 mm	D_{30} = N/A
D_{60} = 0.8117 mm	D_{15} = N/A
D_{50} = 0.2179 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

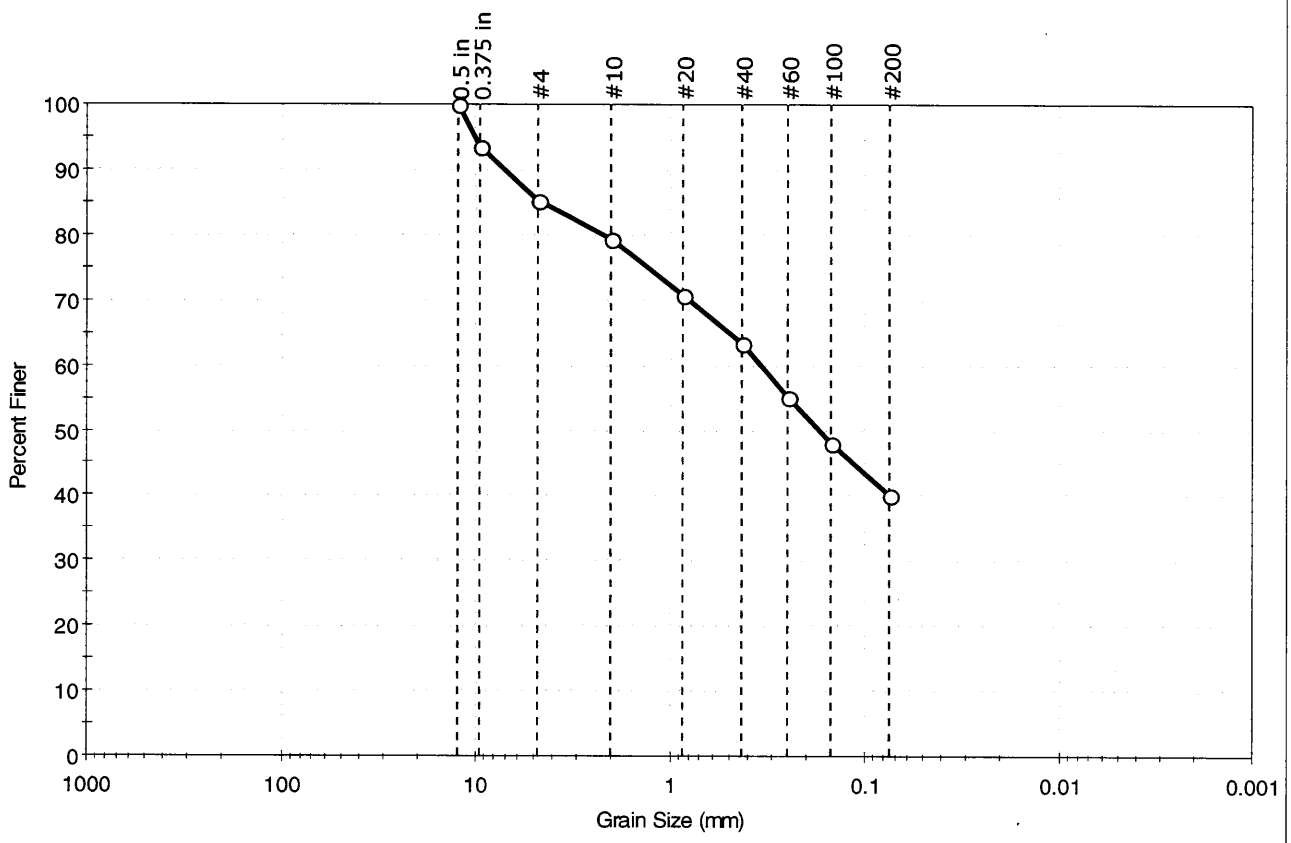
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-113S	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4006-09	Test Date: 06/14/12	Checked By: jdt
Depth :	18-20 ft.	Test Id: 238269	
Test Comment:	---		
Sample Description:	Moist, dark brown silty sand		
Sample Comment:	Sample contains wood chips		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	14.8	45.0	40.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	93		
#4	4.75	85		
#10	2.00	79		
#20	0.85	71		
#40	0.42	63		
#60	0.25	55		
#100	0.15	48		
#200	0.075	40		

Coefficients

D_{85} =4.5898 mm	D_{30} =N/A
D_{60} =0.3401 mm	D_{15} =N/A
D_{50} =0.1719 mm	D_{10} =N/A
C_u =N/A	C_c =N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

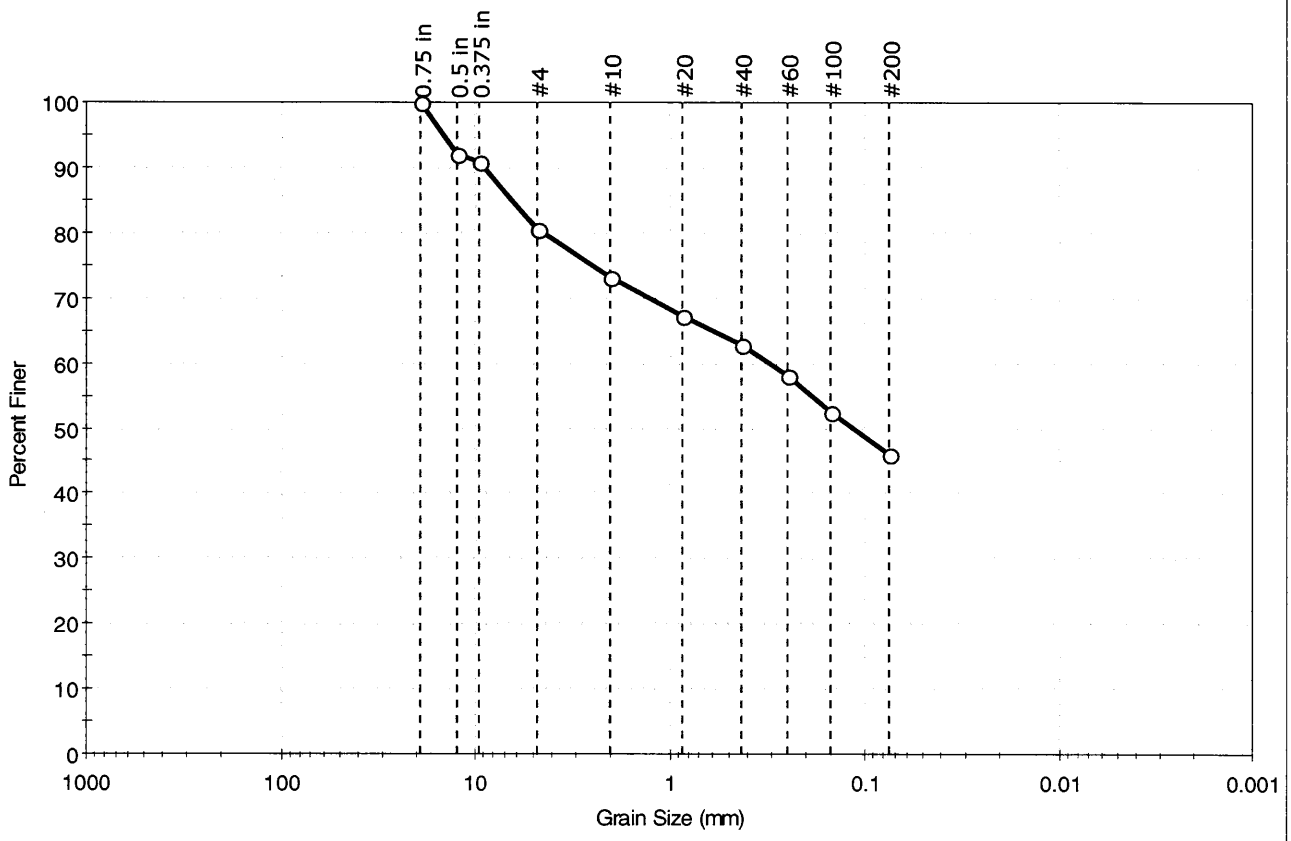
Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : SOFT

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-114BR	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4006-10	Test Date:	06/13/12	Checked By:	jdt
Depth :	14-16 ft.	Test Id:	238270		
Test Comment:	---				
Sample Description:	Moist, brown silty, clayey sand with gravel				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	19.4	34.5	46.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	92		
0.375 in	9.50	91		
#4	4.75	81		
#10	2.00	73		
#20	0.85	67		
#40	0.42	63		
#60	0.25	58		
#100	0.15	52		
#200	0.075	46		

Coefficients

D_{85} = 6.4059 mm	D_{30} = N/A
D_{60} = 0.3093 mm	D_{15} = N/A
D_{50} = 0.1144 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

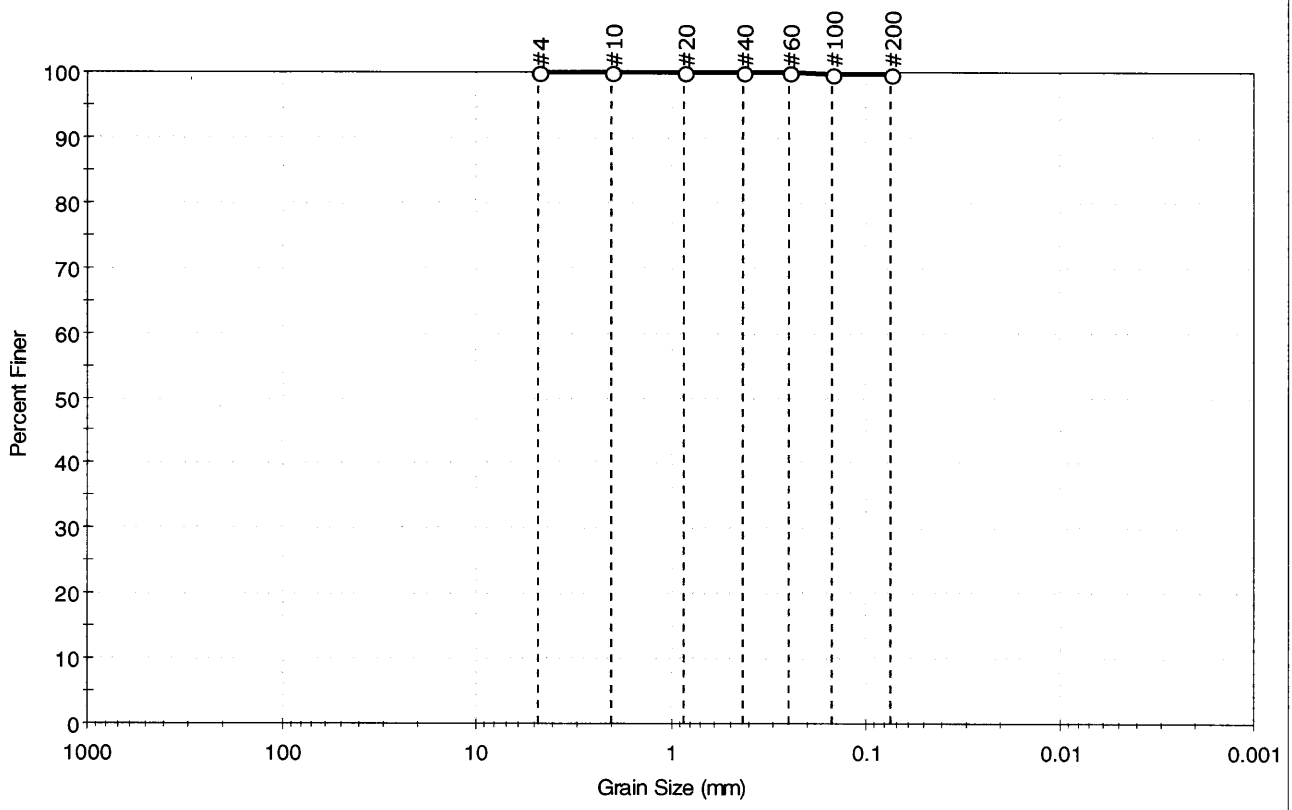
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-115BR	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4006-11	Test Date:	06/13/12	Checked By:	jdt
Depth :	18-20 ft.	Test Id:	238271		
Test Comment:	---				
Sample Description:	Moist, brown clay				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.0	0.3	99.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.075	100		

Coefficients

D_{85} = N/A	D_{30} = N/A
D_{60} = N/A	D_{15} = N/A
D_{50} = N/A	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

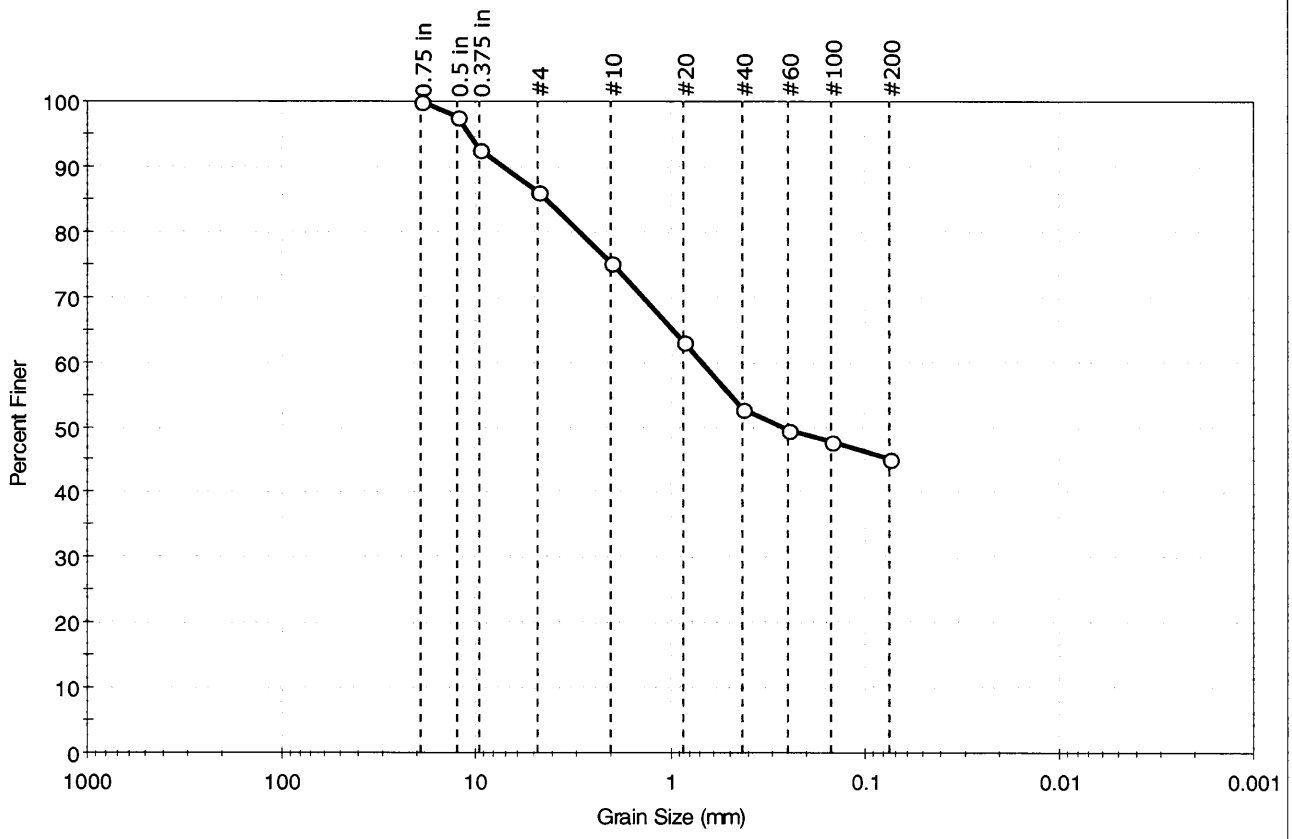
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-115BR	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4006-12	Test Date: 06/14/12	Checked By: jdt
Depth :	54-56 ft.	Test Id: 238272	
Test Comment:	---		
Sample Description:	Moist, grayish brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	14.0	40.9	45.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	98		
0.375 in	9.50	93		
#4	4.75	86		
#10	2.00	75		
#20	0.85	63		
#40	0.42	53		
#60	0.25	49		
#100	0.15	48		
#200	0.075	45		

Coefficients

D_{85} = 4.3782 mm D_{30} = N/A
D_{60} = 0.6885 mm D_{15} = N/A
D_{50} = 0.2727 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

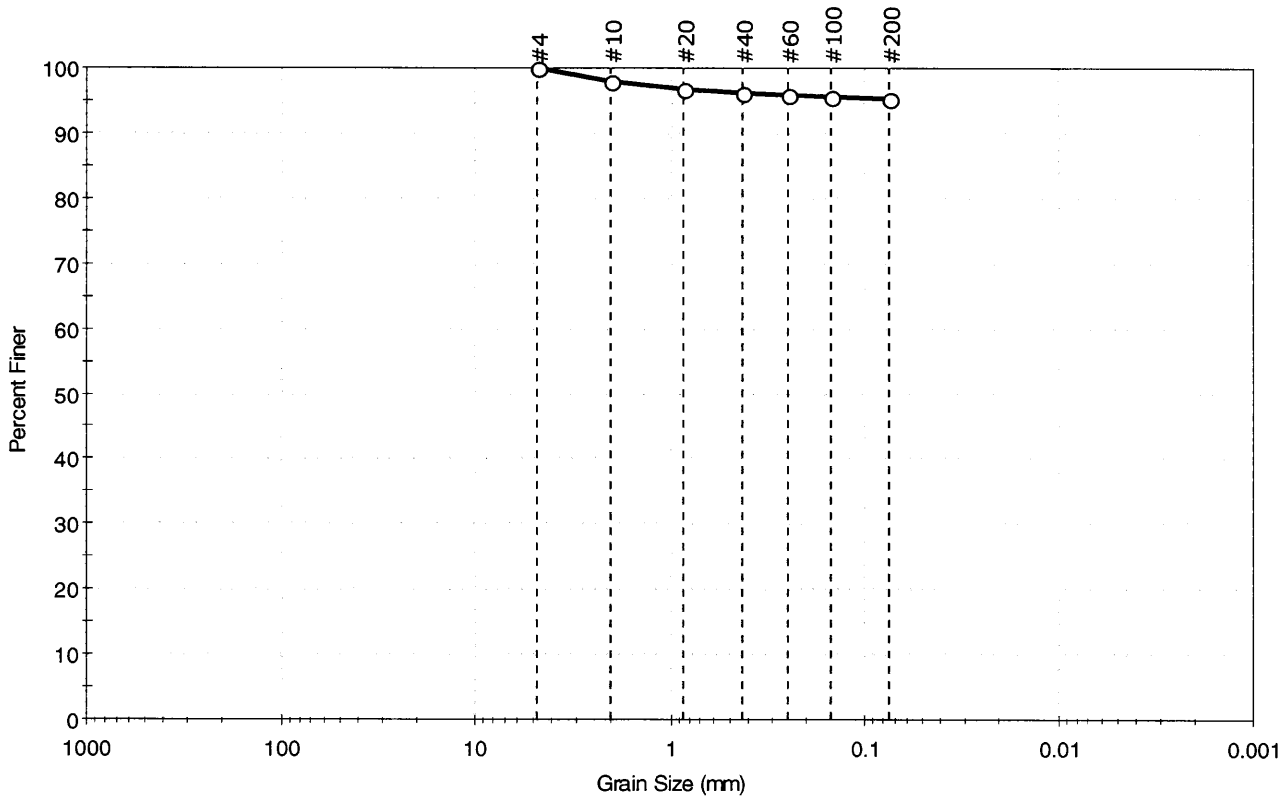
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-116S	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4007-01	Test Date:	06/13/12	Checked By:	jdt
Depth :	12-14 ft.	Test Id:	238285		
Test Comment:	---				
Sample Description:	Moist, brown clay				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.0	4.7	95.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	98		
#20	0.85	97		
#40	0.42	96		
#60	0.25	96		
#100	0.15	96		
#200	0.075	95		

Coefficients

D_{85} = N/A D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

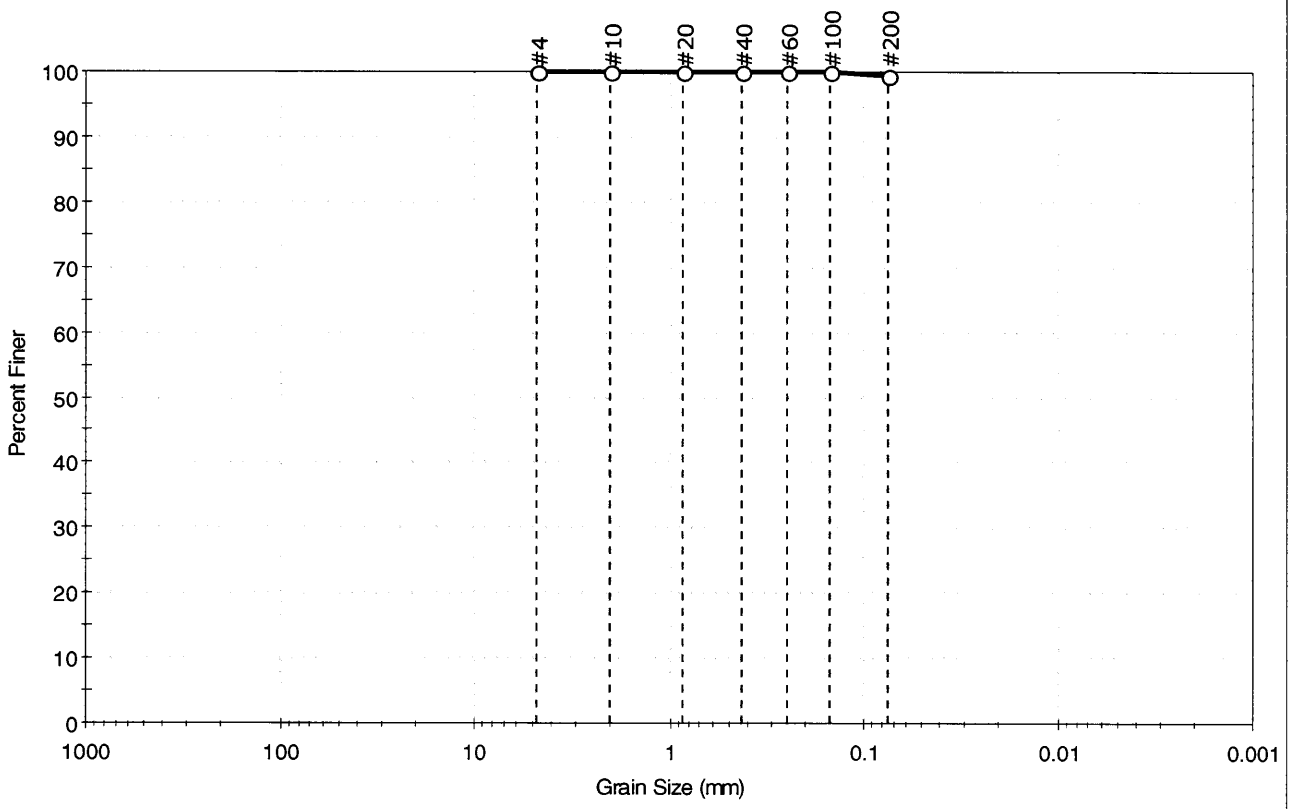
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-117S	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4007-02	Test Date: 06/13/12	Checked By: jdt
Depth :	20-22 ft.	Test Id: 238286	
Test Comment:	---		
Sample Description:	Moist, grayish brown clay		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.0	0.6	99.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.075	99		

Coefficients

D_{85} = N/A D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

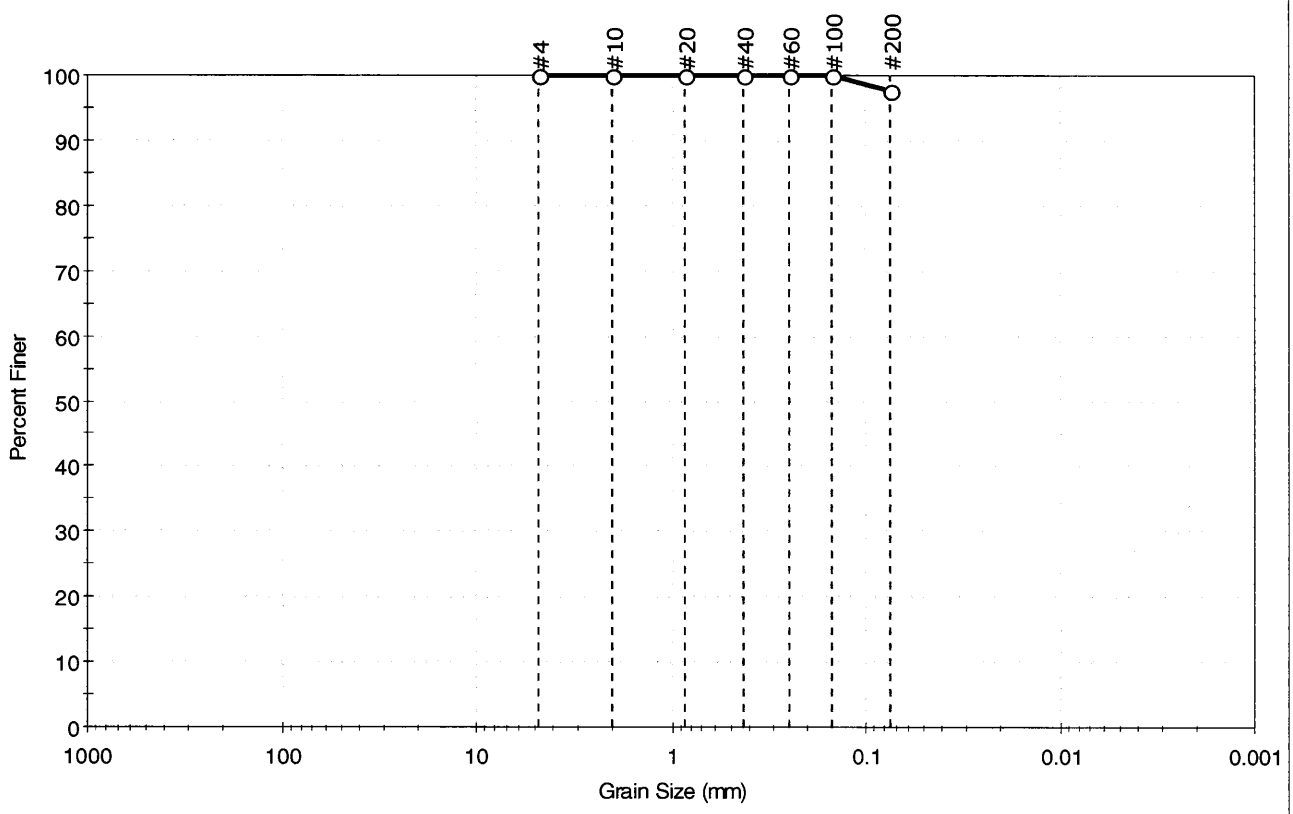
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-118S	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4007-03	Test Date: 06/13/12	Checked By: jdt
Depth :	8-10 ft.	Test Id: 238287	
Test Comment:	---		
Sample Description:	Moist, brown silt		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.0	2.5	97.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	100		
#200	0.075	98		

Coefficients

D_{85} = N/A	D_{30} = N/A
D_{60} = N/A	D_{15} = N/A
D_{50} = N/A	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

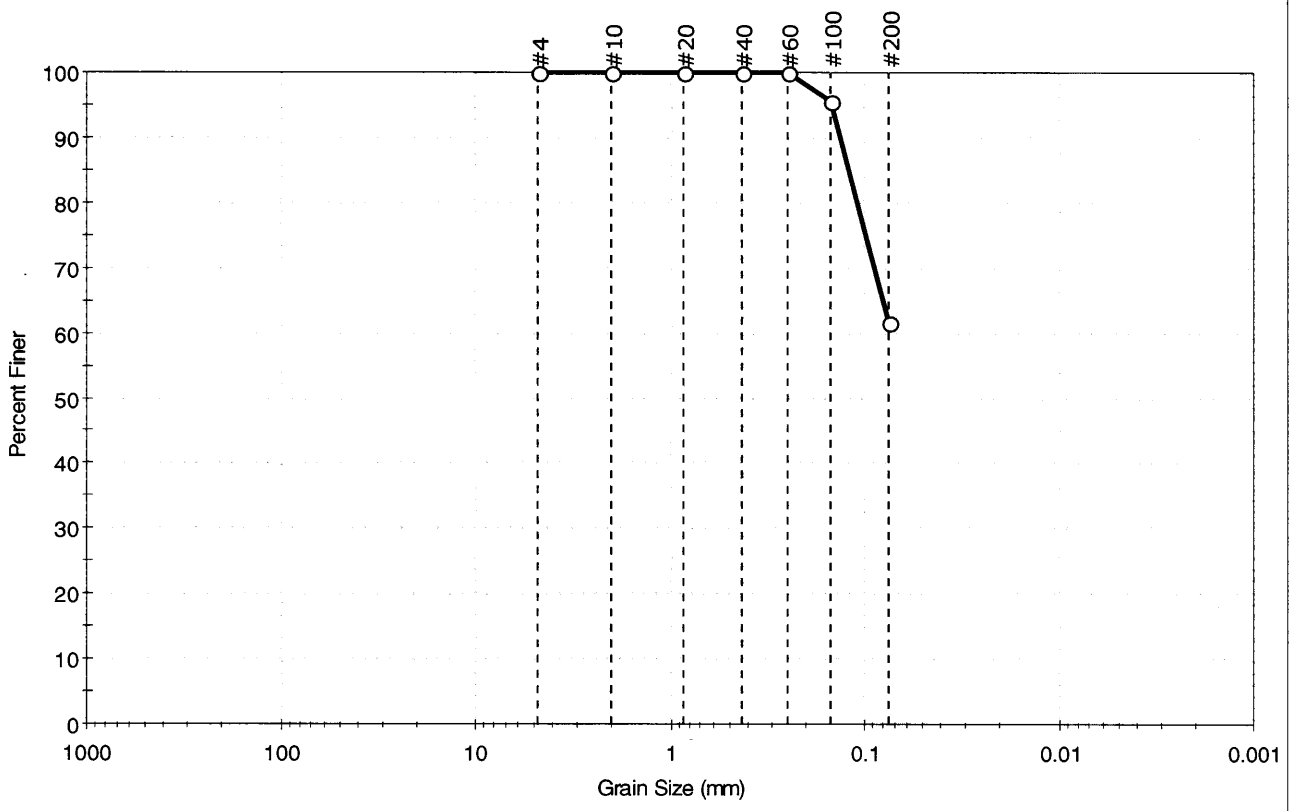
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-MW-118BR	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4007-04	Test Date:	06/13/12	Checked By:	jdt
Depth :	22-24 ft.	Test Id:	238288		
Test Comment:	---				
Sample Description:	Moist, brown sandy silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
---	0.0	38.3	61.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	96		
#200	0.075	62		

Coefficients

D_{85} = 0.1209 mm D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

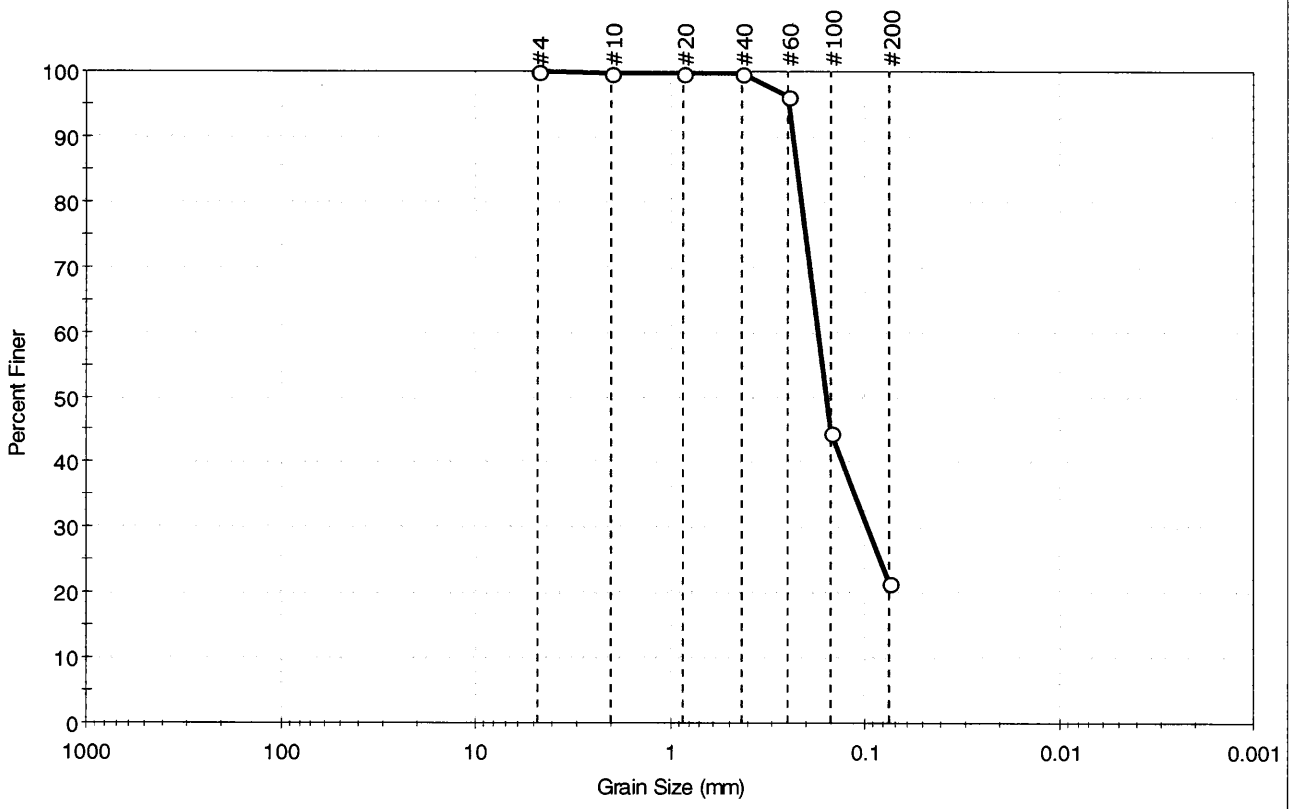
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-MW-118BR	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4007-05	Test Date: 06/13/12	Checked By: jdt
Depth :	32-34 ft.	Test Id: 238289	
Test Comment:	---		
Sample Description:	Moist, brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	78.5	21.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	96		
#100	0.15	45		
#200	0.075	22		

Coefficients

D_{85} = 0.2236 mm D_{30} = 0.0968 mm
D_{60} = 0.1747 mm D_{15} = N/A
D_{50} = 0.1583 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

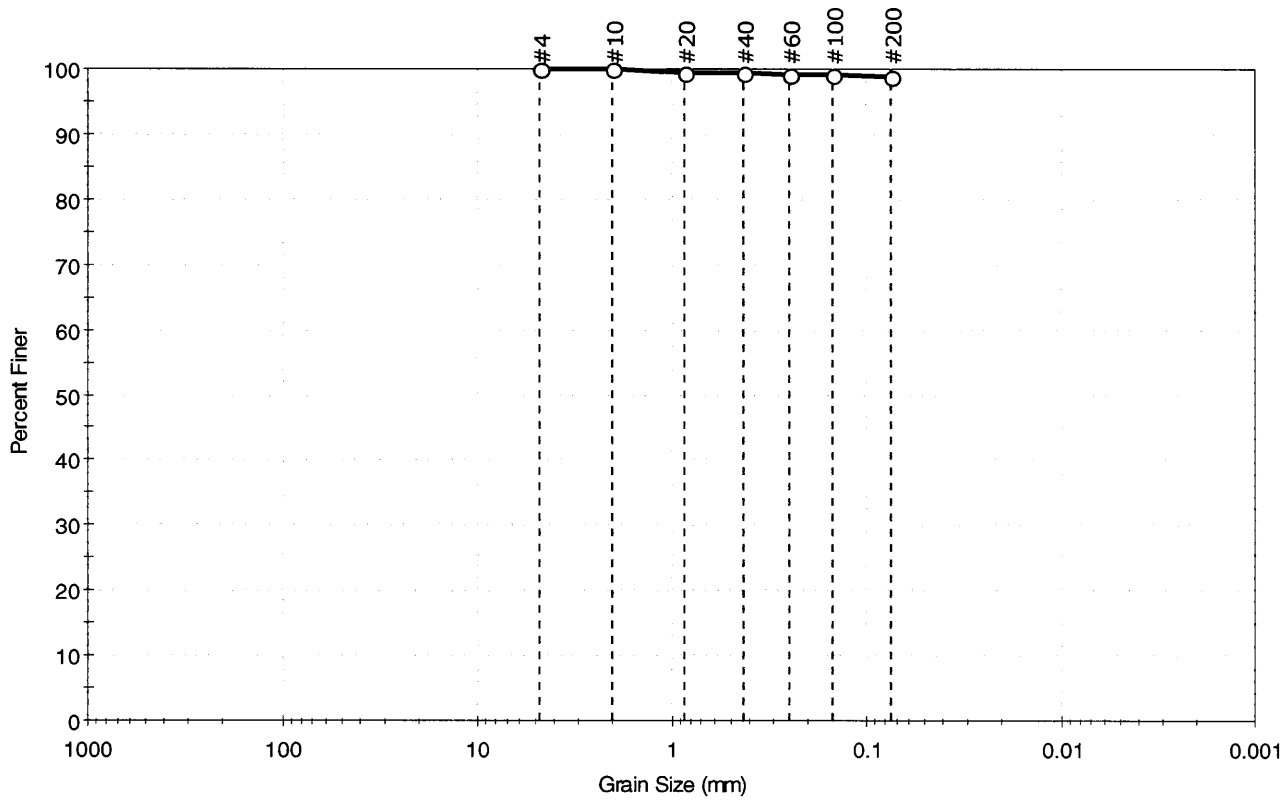
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-WB-07R	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4007-06	Test Date:	06/13/12	Checked By:	jdt
Depth :	18-20 ft.	Test Id:	238290		
Test Comment:	---				
Sample Description:	Moist, brown clay				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.0	1.1	98.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	99		
#60	0.25	99		
#100	0.15	99		
#200	0.075	99		

Coefficients

D_{85} = N/A	D_{30} = N/A
D_{60} = N/A	D_{15} = N/A
D_{50} = N/A	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

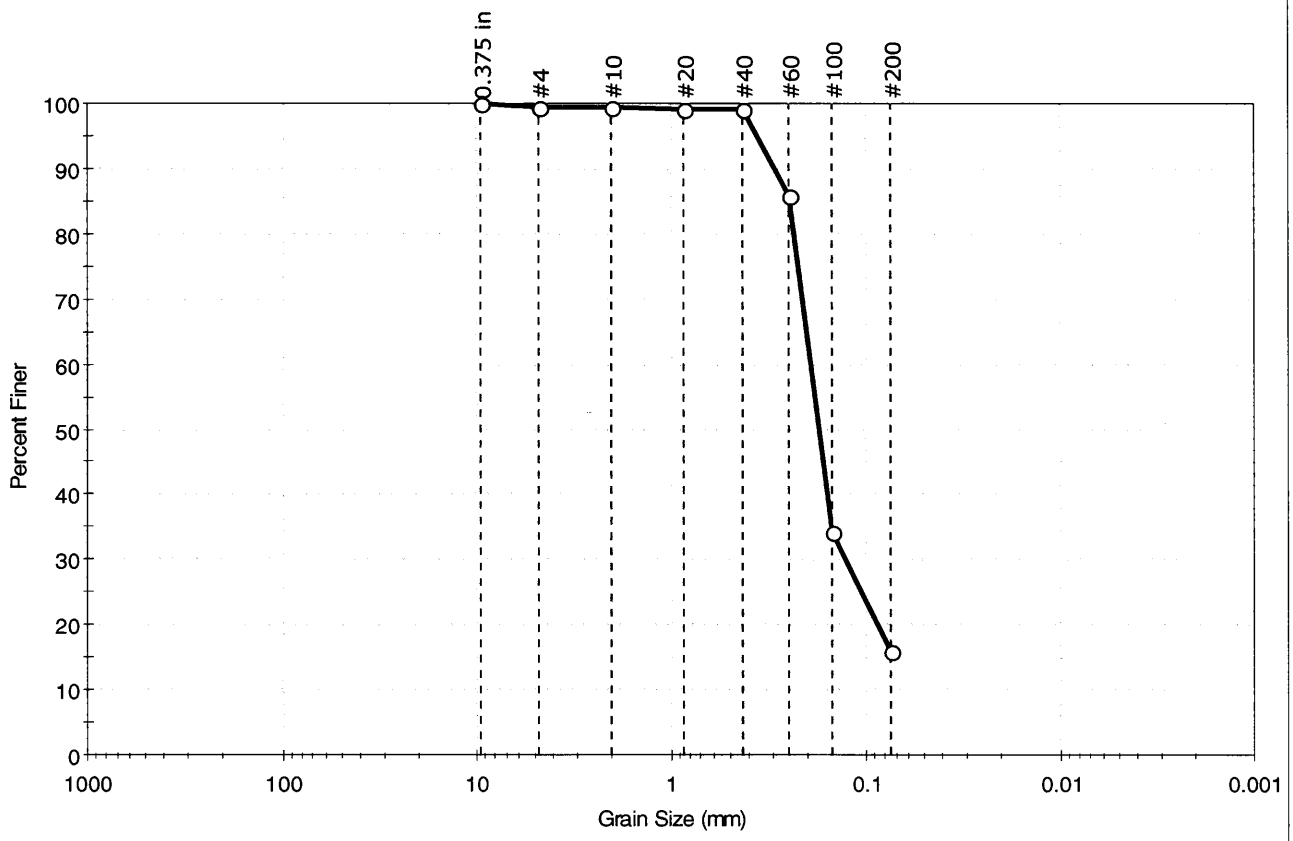
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-WB-07R	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4007-07	Test Date:	06/14/12	Checked By:	jdt
Depth :	44-46 ft.	Test Id:	238291		
Test Comment:	---				
Sample Description:	Moist, grayish brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.6	83.4	16.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	99		
#20	0.85	99		
#40	0.42	99		
#60	0.25	86		
#100	0.15	34		
#200	0.075	16		

Coefficients

D_{85} = 0.2478 mm	D_{30} = 0.1274 mm
D_{60} = 0.1934 mm	D_{15} = N/A
D_{50} = 0.1752 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description

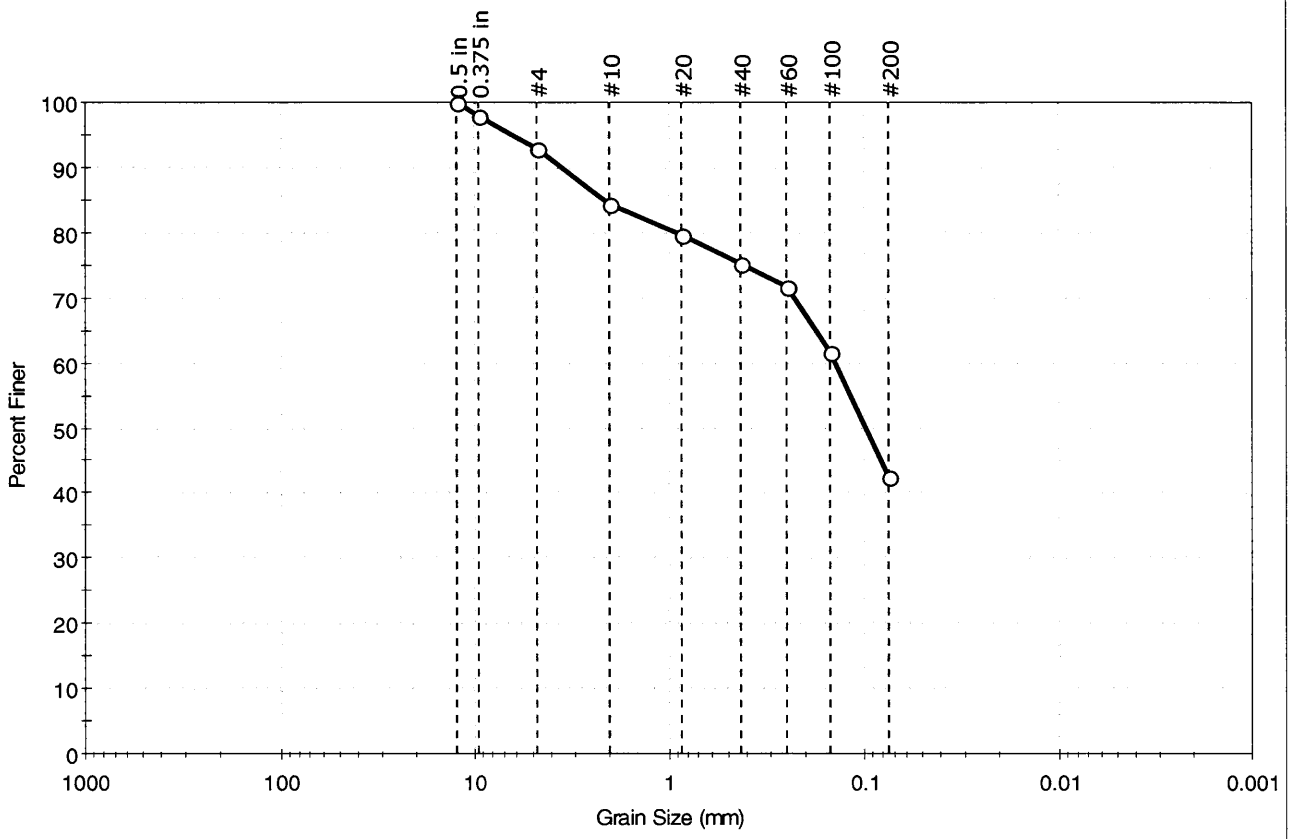
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-WB-07R	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4007-08	Test Date:	06/14/12	Checked By:	jdt
Depth :	50-52 ft.	Test Id:	238292		
Test Comment:	---				
Sample Description:	Moist, brown silty sand				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	7.2	50.2	42.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	98		
#4	4.75	93		
#10	2.00	84		
#20	0.85	80		
#40	0.42	75		
#60	0.25	72		
#100	0.15	62		
#200	0.075	43		

Coefficients

D_{85} = 2.1456 mm D_{30} = N/A
D_{60} = 0.1419 mm D_{15} = N/A
D_{50} = 0.0983 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

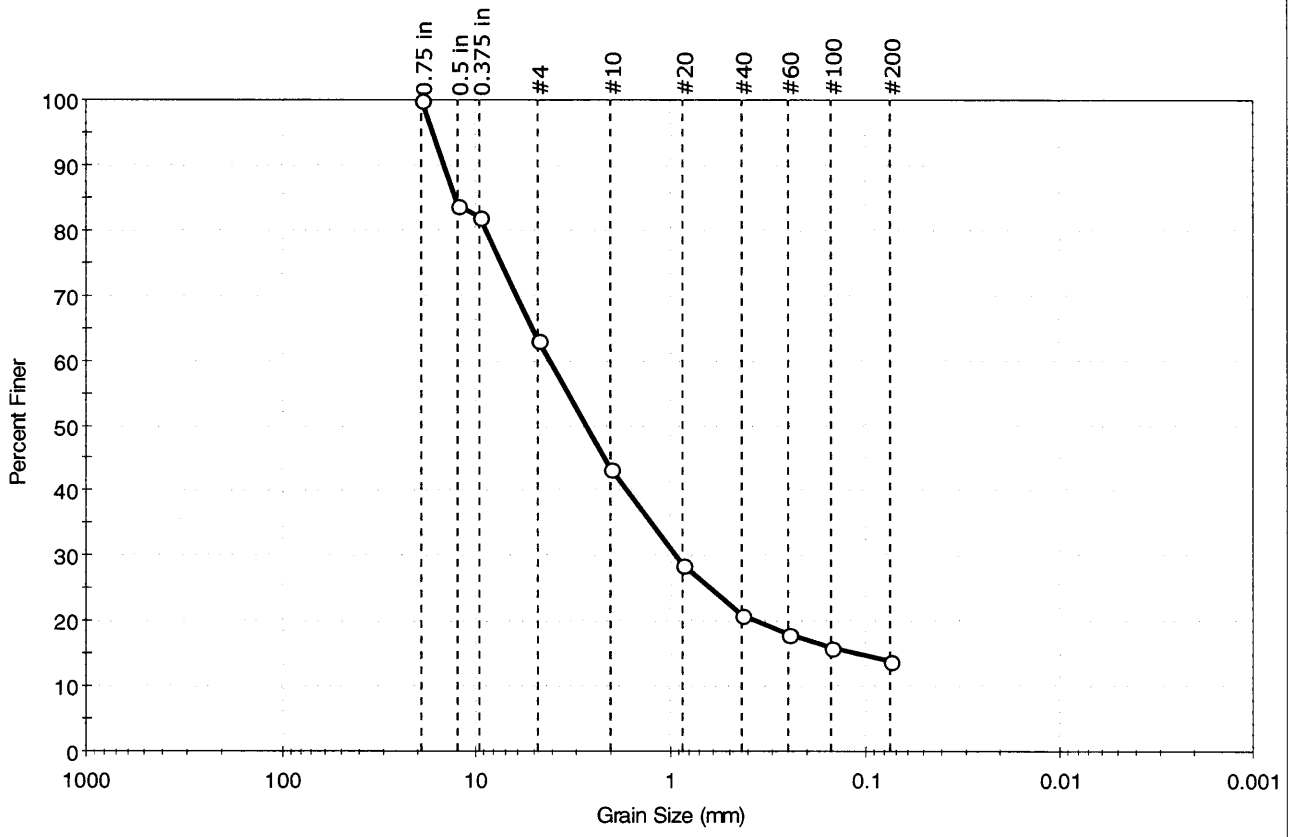
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-WB-07R	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4007-09	Test Date: 06/14/12	Checked By: jdt
Depth :	70-72 ft.	Test Id: 238293	
Test Comment:	---		
Sample Description:	Moist, grayish brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	37.0	49.2	13.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	84		
0.375 in	9.50	82		
#4	4.75	63		
#10	2.00	43		
#20	0.85	28		
#40	0.42	21		
#60	0.25	18		
#100	0.15	16		
#200	0.075	14		

Coefficients

D_{85} = 12.8884 mm D_{30} = 0.9283 mm
D_{60} = 4.1560 mm D_{15} = 0.1139 mm
D_{50} = 2.6864 mm D_{10} = 0.0196 mm
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-a (0))

Sample/Test Description

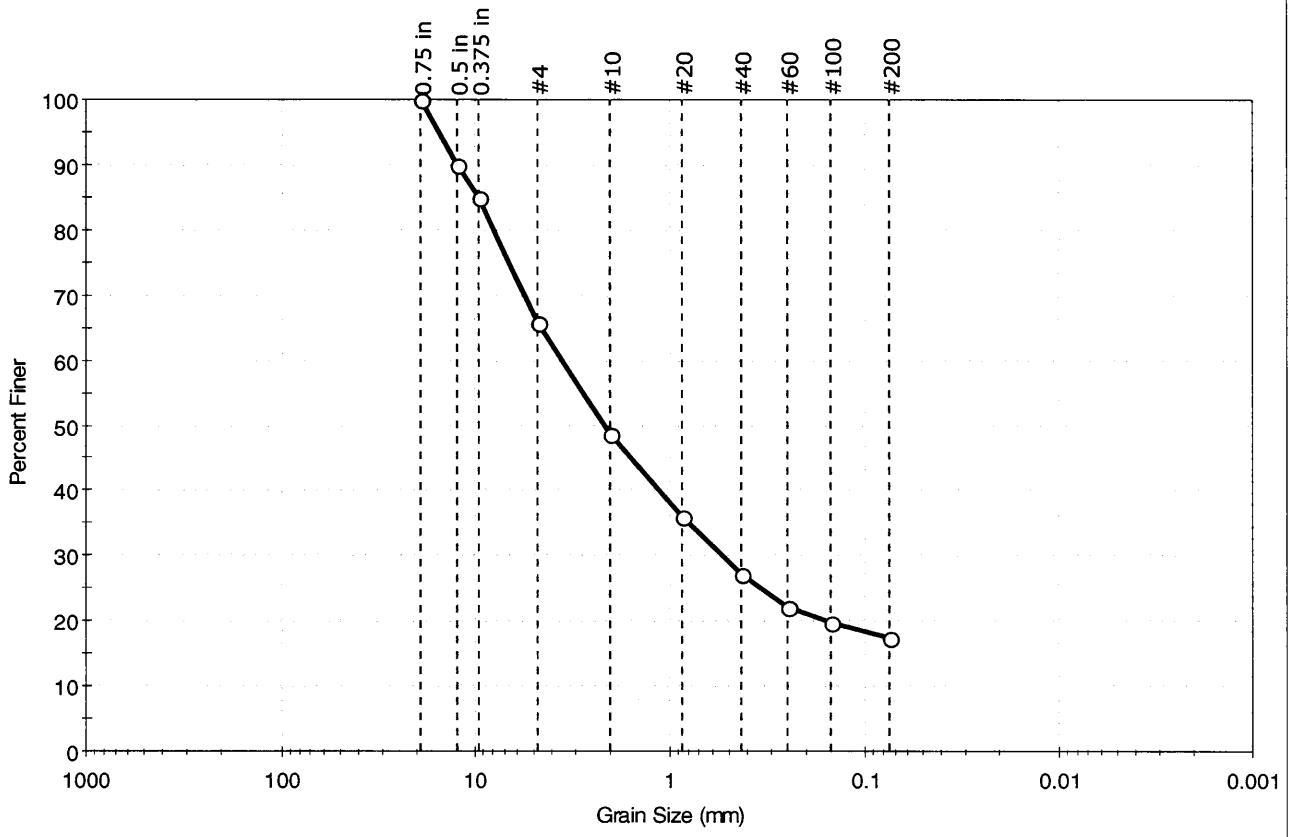
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-WB-09L	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4007-10	Test Date:	06/14/12	Checked By:	jdt
Depth :	18-20 ft.	Test Id:	238294		
Test Comment:	---				
Sample Description:	Moist, grayish brown silty sand with gravel				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	34.1	48.6	17.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	90		
0.375 in	9.50	85		
#4	4.75	66		
#10	2.00	49		
#20	0.85	36		
#40	0.42	27		
#60	0.25	22		
#100	0.15	20		
#200	0.075	17		

Coefficients

D_{85} =9.5370 mm	D_{30} =0.5311 mm
D_{60} =3.5313 mm	D_{15} =N/A
D_{50} =2.1300 mm	D_{10} =N/A
C_u =N/A	C_c =N/A

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

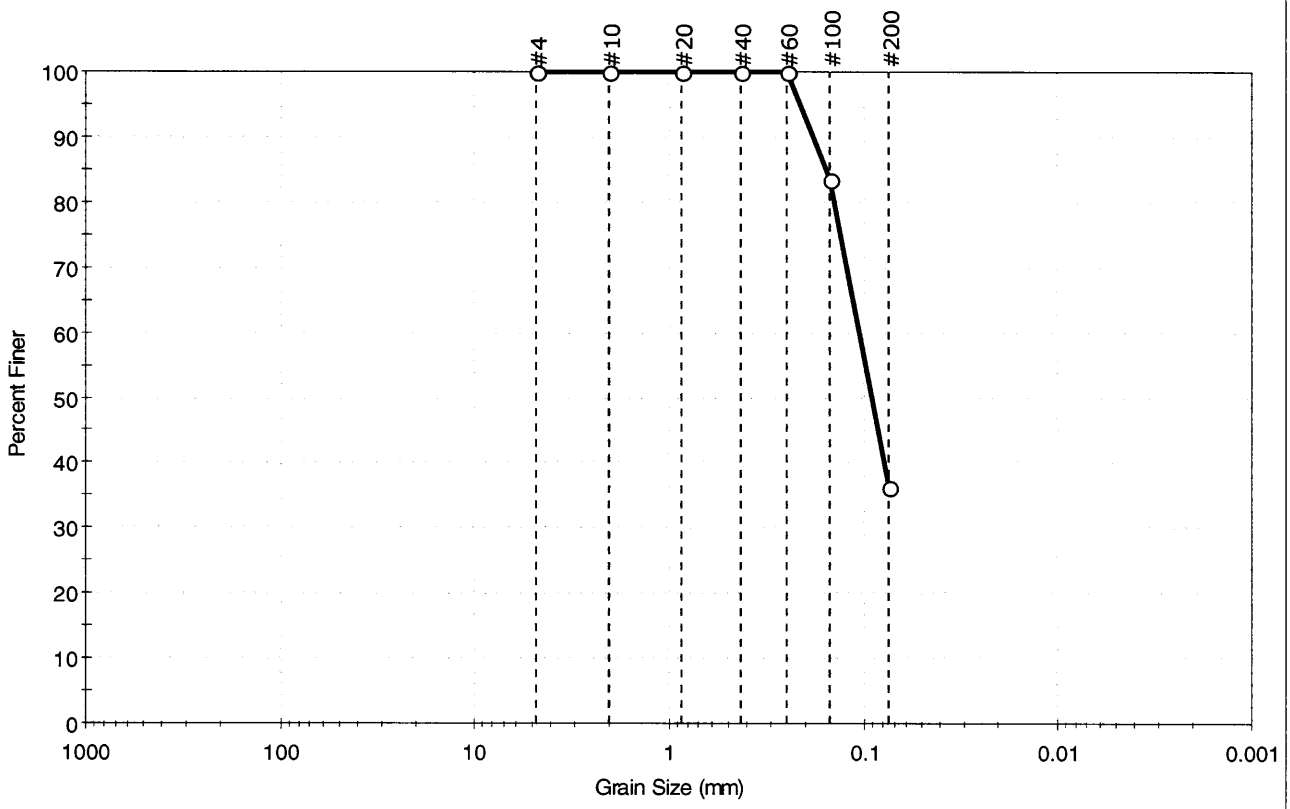
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-WB-09L	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4007-11	Test Date: 06/14/12	Checked By: jdt
Depth :	38-40 ft.	Test Id: 238295	
Test Comment:	---		
Sample Description:	Moist, grayish brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	0.0	63.6	36.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	83		
#200	0.075	36		

Coefficients

D_{85} = 0.1578 mm D_{30} = N/A
D_{60} = 0.1063 mm D_{15} = N/A
D_{50} = 0.0917 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

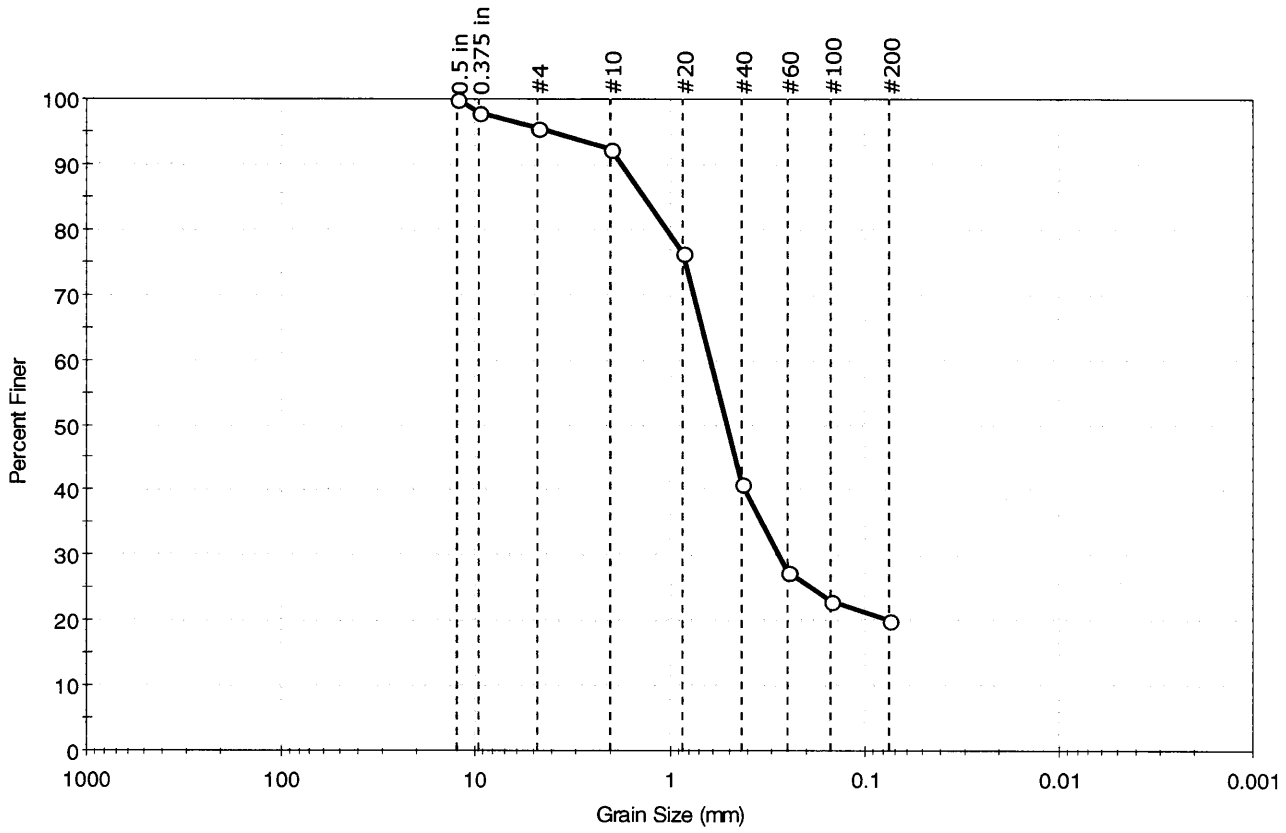
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-WB-09L	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4007-12	Test Date: 06/14/12	Checked By: jdt
Depth :	66-68 ft.	Test Id: 238296	
Test Comment:	---		
Sample Description:	Moist, grayish brown silty sand		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
—	4.5	75.3	20.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	98		
#4	4.75	95		
#10	2.00	92		
#20	0.85	76		
#40	0.42	41		
#60	0.25	28		
#100	0.15	23		
#200	0.075	20		

Coefficients

D_{85} = 1.3428 mm D_{30} = 0.2754 mm
D_{60} = 0.6164 mm D_{15} = N/A
D_{50} = 0.5072 mm D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

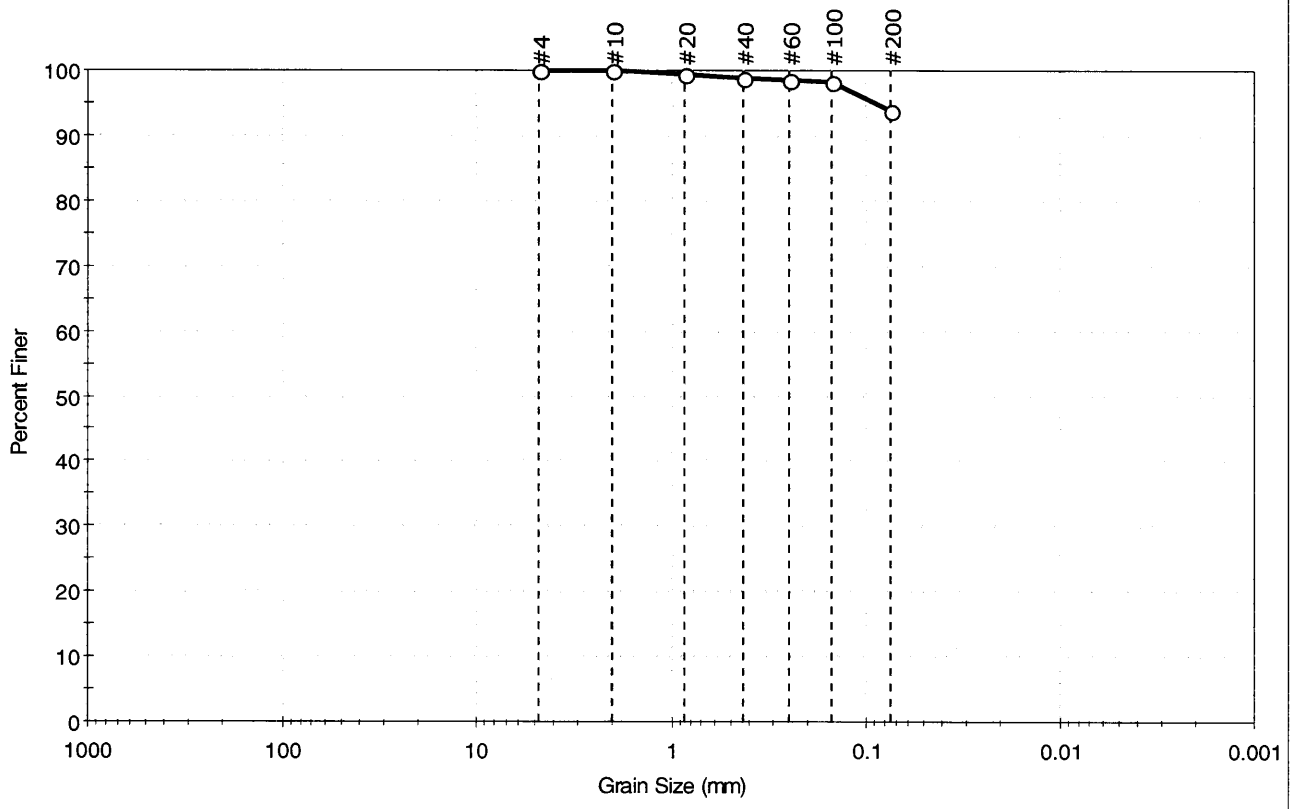
Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-WB-10L	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4008-01	Test Date:	06/13/12	Checked By:	jdt
Depth :	12-14 ft.	Test Id:	238309		
Test Comment:	---				
Sample Description:	Moist, grayish brown clay				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



%Cobble	%Gravel	%Sand	%Silt & Clay Size
---	0.1	6.0	93.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	99		
#60	0.25	99		
#100	0.15	98		
#200	0.075	94		

Coefficients

D_{85} = N/A D_{30} = N/A
D_{60} = N/A D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

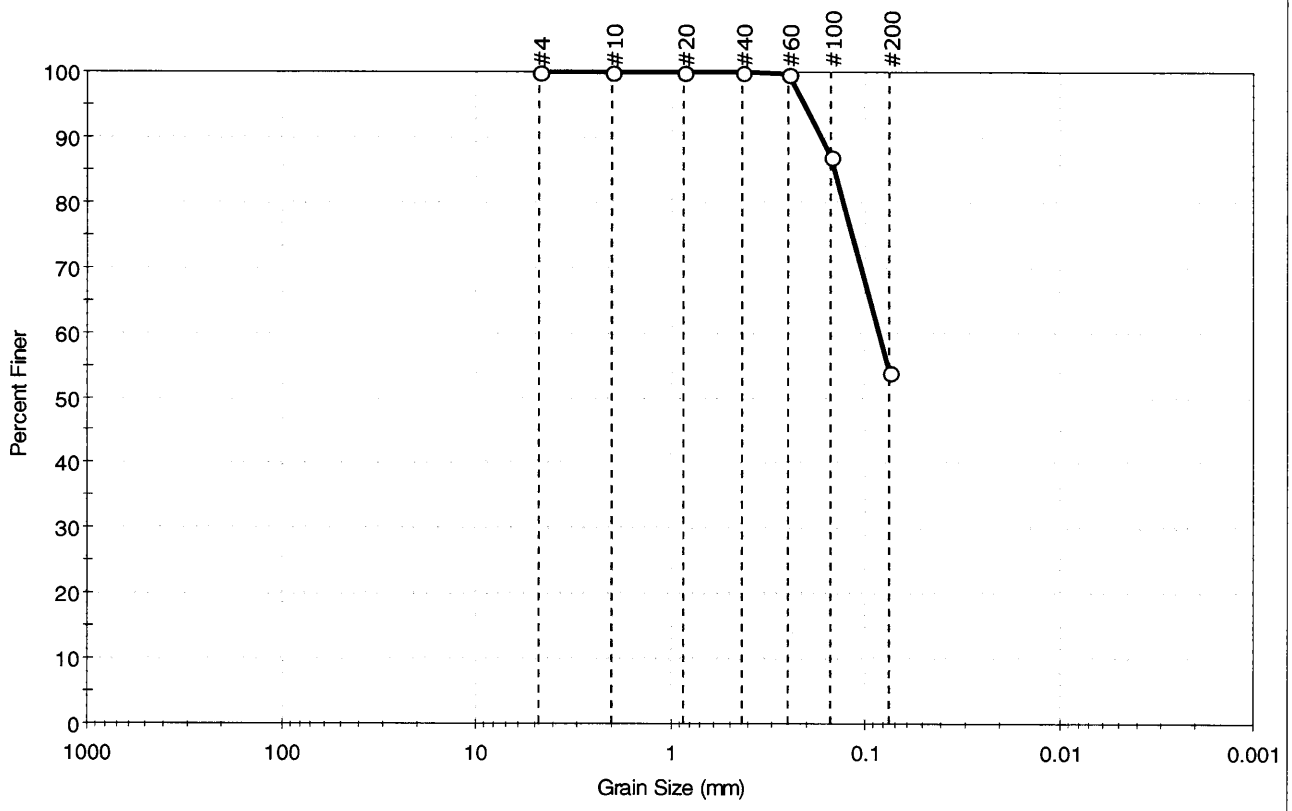
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers				
Project:	SB 915 Closure Investigation				
Location:	Syracuse, NY			Project No:	GTX-11867
Boring ID:	SB915-WB-10L	Sample Type:	jar	Tested By:	jbr
Sample ID:	HB-4008-02	Test Date:	06/13/12	Checked By:	jdt
Depth :	34-36 ft.	Test Id:	238311		
Test Comment:	---				
Sample Description:	Moist, brown sandy silt				
Sample Comment:	---				

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
--	0.0	45.9	54.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	87		
#200	0.075	54		

Coefficients

D_{85} = 0.1438 mm D_{30} = N/A
D_{60} = 0.0850 mm D_{15} = N/A
D_{50} = N/A D_{10} = N/A
C_u = N/A C_c = N/A

Classification

ASTM N/A

AASHTO Silty Soils (A-4 (0))

Sample/Test Description

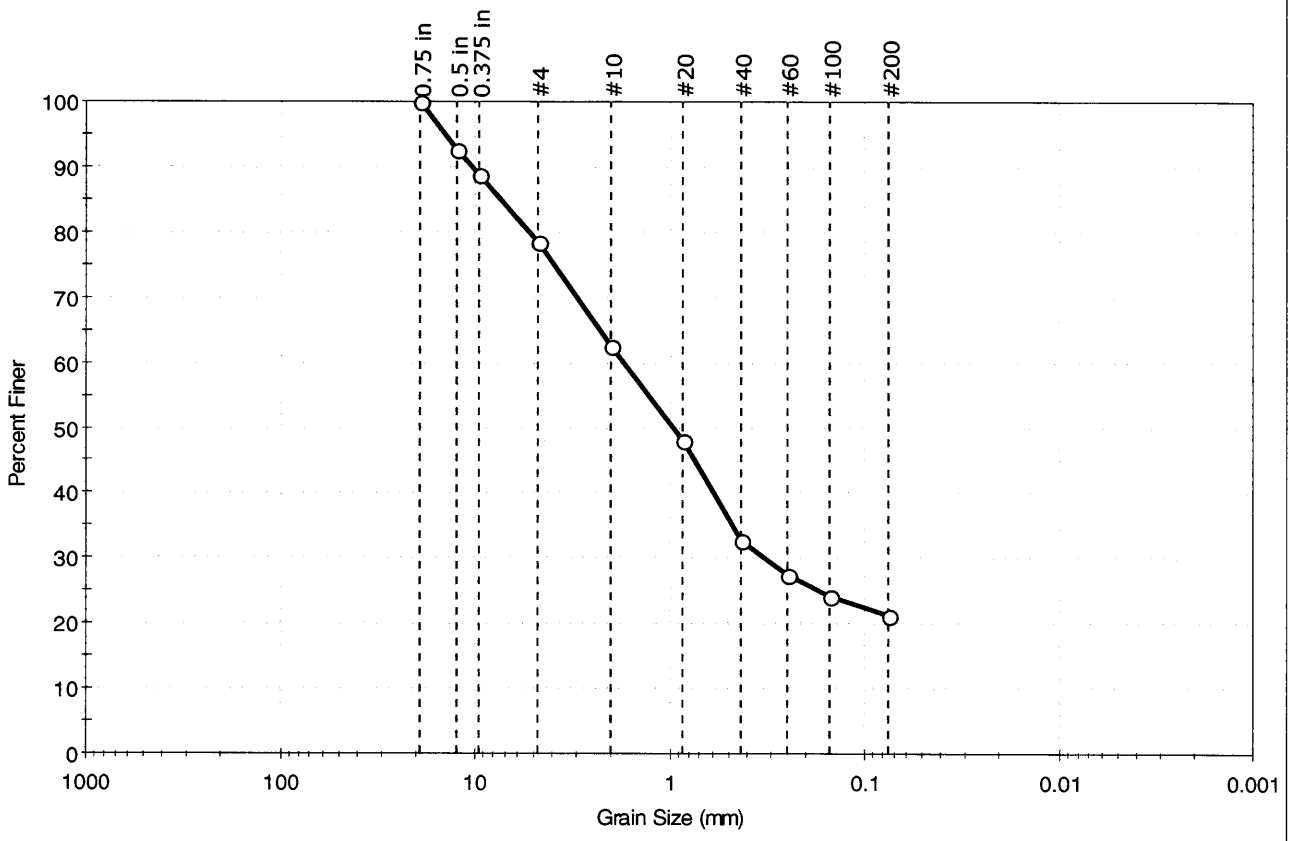
Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

GeoTesting EXPRESS

Client:	OBrien & Gere Engineers		
Project:	SB 915 Closure Investigation		
Location:	Syracuse, NY	Project No:	GTX-11867
Boring ID:	SB915-WB-10L	Sample Type: jar	Tested By: jbr
Sample ID:	HB-4008-03	Test Date: 06/14/12	Checked By: jdt
Depth :	64-66 ft.	Test Id: 238313	
Test Comment:	---		
Sample Description:	Moist, grayish brown silty sand with gravel		
Sample Comment:	---		

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	21.5	57.4	21.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	93		
0.375 in	9.50	89		
#4	4.75	79		
#10	2.00	62		
#20	0.85	48		
#40	0.42	33		
#60	0.25	27		
#100	0.15	24		
#200	0.075	21		

Coefficients

D_{85} = 7.3265 mm	D_{30} = 0.3222 mm
D_{60} = 1.7278 mm	D_{15} = N/A
D_{50} = 0.9582 mm	D_{10} = N/A
C_u = N/A	C_c = N/A

Classification

ASTM N/A

AASHTO Stone Fragments, Gravel and Sand (A-1-b (0))

Sample/Test Description

Sand/Gravel Particle Shape : ROUNDED

Sand/Gravel Hardness : HARD

Attachment 3

Equivalent Fresh Water Head Calculation Details

Attachment DA.1

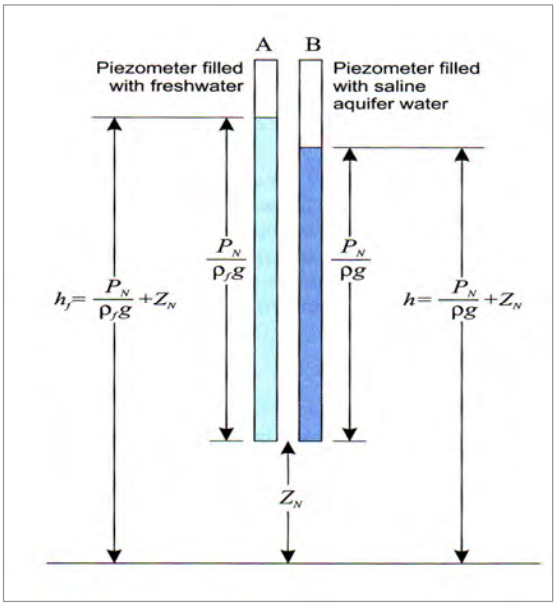
Equivalent Freshwater Heads

ATTACHMENT DA.1

EQUIVALENT FRESHWATER HEADS

Groundwater head is conventionally measured by recording the depth to water and then calculating the head (water level) by subtracting the depth to water from a reference elevation. In this method, the casing of the well acts as a pressure gauge in which the measured water column in the well is equal to the pressure (P) in the aquifer at the base of the well (assumes well has an infinitesimally small screen) divided by the density of the water (ρ) in the well and the gravitational constant (g); $Water\ column = \frac{P}{\rho g}$. The height of the water column is a function of the density of the water and thus the groundwater head calculated by the conventional method of water level measurements is a function of the density of the water in the well column. The true head or potential is *not* a function of the density of the water column in the well, and for the purposes of expressing head using a common reference, the concept of equivalent freshwater head was introduced. This concept is illustrated in the figure below, where h_f is equivalent freshwater head, h is measured head, ρ_f is freshwater density, and ρ is density of water in the well column.

The equations of groundwater flow can be formulated in terms of measured head, but the results include cumbersome expressions involving density and its derivatives. The equations of groundwater flow in terms of freshwater head are similar to those conventionally used in programs such as MODFLOW.



GROUNDWATER FLOW EQUATIONS

In a horizontally stratified aquifer, in which it is assumed that the hydraulic conductivity and viscosity are not functions of density, Darcy's law can be written as follows:

$$q_x = -K_x \left(\frac{\partial h_f}{\partial x} \right) \qquad (1)$$

for horizontal flow; and

$$q_z = -K_z\left(\frac{\partial h_f}{\partial z} + \left(\frac{\rho - \rho_f}{\rho_f}\right)\right) \quad (2)$$

for vertical flow, where K is hydraulic conductivity and q is Darcy groundwater velocity.

It is important to note that Darcy's law for horizontal flow is identical to the form of Darcy's law in MODFLOW, but that Darcy's law for vertical flow is not identical to the form of Darcy's law in MODFLOW; an extra density term has been added. As a result, in a groundwater system with variable density, converting heads at monitoring points and then using MODFLOW to solve the groundwater flow equations will not produce a correct solution unless the system being modeled is in a one-layer horizontal system.

An examination of the equations for Darcy's Law in terms of equivalent freshwater head will indicate that in a horizontally stratified aquifer, vertical flow is approximately equivalent to the gradient calculated from measured heads multiplied by hydraulic conductivity (the density term in equation for vertical flow is equal to the correction term for converting measured head to equivalent freshwater head). Therefore, in a horizontally stratified aquifer with multiple layers, use of MODFLOW with equivalent freshwater heads will result in a correct calculation of horizontal flow but an incorrect calculation of vertical flow.

In an aquifer with dipping units, the principal axes of permeability are not oriented with the x-,y-, and z-coordinate systems, but rather are typically oriented with respect to the dip of the aquifer units. In this situation, Darcy's law for flow parallel to the dip of the aquifer unit, can be written as:

$$q_\alpha = -K_\alpha\left(\frac{\partial h_f}{\partial \alpha} + \left(\frac{\rho - \rho_f}{\rho}\right)\frac{\partial z}{\partial \alpha}\right) \quad (3)$$

where α represents principal direction of permeability oriented parallel to the dip of the aquifer. The term within the brackets can be thought of as the hydraulic gradient, but in this case it consists of two components: 1) a pressure component due to the change in equivalent freshwater head, and 2) a gravitational component due to the slope of the aquifer unit ($\partial z/\partial \alpha$). This equation assumes that the hydraulic conductivity and viscosity are not functions of density.

Equation 3 can be used to estimate the magnitude of groundwater flow in the aquifer units along the shore of Onondaga Lake where the aquifer units are dipping towards the lake and the density is increasing towards the lake. Equation 3, and similar equations for directions orthogonal to α, are incorporated in the computer code SEAWAT-2000, which is a modified version of MODFLOW-2000. Though SEAWAT-2000 uses equivalent freshwater heads in its internal calculations, for ease of comparison with measured water levels, input and output to SEAWAT-2000 is expressed in terms of measured water levels.

Equivalent freshwater heads have been calculated for all monitoring wells with water level data. The procedures used to estimate density and calculated equivalent freshwater heads are

described below. The calculated freshwater heads are listed on Table B-3 in Appendix D: Part B.

Groundwater elevations were calculated in three steps: 1) long-term average groundwater elevations were calculated, 2) the density for each well was calculated, and 3) the equivalent freshwater head was calculated.

AVERAGE GROUNDWATER ELEVATION

- Groundwater elevations have been collected intermittently for the Semet, Willis, Ballfield, and Harbor Brook sites starting on February 2, 1991. Because the length of the water level data record for each well is limited by the installation date of the well, the Ballfield and Harbor Brook wells have shorter records than the Semet and Willis wells.
- There was some concern that the short records of some wells might affect the accuracy of the calculated long-term averages for recently installed wells. To address this concern, the long-term averages were compared to averages for just 2003 at wells where the records included both data sets. The long-term and 2003 averages were similar, indicating that the 2003 water level averages are representative of long-term averages. Therefore, the use of 2003 data to represent long-term averages is justified for recently installed wells.
- Average groundwater elevations for each well were calculated based on the full groundwater elevation record for each well.

DENSITY CALCULATION

- The density of the water in each well was calculated by one of three methods: based on TDS, based on water level and pressure measurements, or based on density calculated for wells immediately adjacent. The TDS method was the preferred method. If TDS data were not available, then the water level pressure method was used. If data were not available for either of the previous methods, then the density was estimated based on adjacent wells in similar geologic materials.
- The density based on TDS (total anion and cation concentrations) was calculated using the following formula:

$$\text{Density } (g/cm^{3)} = (0.000687 * \text{TDS Conc.} + 998.4575) / 1000 \qquad (4)$$

Source: De Marsily, G. 1986. Quantitative Hydrogeology: Groundwater Hydrology for Engineers. San Diego, California: Academic Press.
Note for some wells the total major anion and cation concentration was used to represent TDS.

- The density based on water level pressure was calculated by measuring both the water pressure (with a pressure transducer) within the screen interval and the height of the water column above the pressure transducer. The density is calculated by the following formula:

$$\text{Density } (g/cm^3) = \text{pressure head / water column height} \qquad (5)$$

These density measurements were conducted twice on a number of wells, with relatively good duplication of results. The density measurements were also collected at the top and middle of the water column to evaluate the consistency of density of the water within the well.

- Density estimates based on TDS calculations were judged somewhat more reliable than the pressure measurements. Therefore, density based on TDS calculations was the first choice in methods. Density was calculated by TDS for 76 wells. For those 18 wells without TDS data, density was estimated by water level pressure measurements. Density of adjacent wells was used for 15 wells. The attached table identifies which method was used to estimate the water density in the well.

EQUIVALENT FRESHWATER HEAD CALCULATION

- The Equivalent Freshwater Head (EFH) was calculated using the full water level averages and the calculated densities.
- The EFH is calculated using the following formula:

$$EFH = Density * Water\ Level + (1 - Density) * Screen\ Depth \quad (6)$$

Where: Density = Density as calculated above,

Water Level = Full, long term average of water level elevation, and

Screen Depth = Elevation of screen midpoint.

Attachment 4

EDR Report

Attachment 4-1

EDR Report (on CD)

Fax To: O Brien & Gere Engineers, Inc.
Contact: Michael Miller
Fax : 315-956-6375
Date: 01/10/2011

Fax From: Liz Mahoney
EDR
Phone: 1-800-352-0050

EDR PUR-IQ® Report

"the intelligent way to conduct historical research"

for
Wastebeds 9 Through 15
Gerelock Rd
Syracuse, NY 13209
Lat./Long. 43.07100 / 76.24960
EDR Inquiry # 02963764.2r

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports® comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

Potential for EDR Historical (Prior Use) Coverage - Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

1. City Directory: Coverage exists for portions of SYRACUSE, NY for 1939-2003, 1963-2003

2. Fire Insurance Map: When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.

3. Aerial Photograph: Full Coverage exists for Onondaga County Shipping time 3-5 days.

4. Topographic Map: The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical: Coverage exists for ONONDAGA County

Current: Target Property: TP | 1978 | 43076-A2 Syracuse West, NY

Additional required for 1 Mile radius: W | 1978 | 43076-A3 Camillus, NY

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for Syracuse, NY. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.

EDR - HISTORICAL SOURCE(S) ORDER FORM

O Brien & Gere Engineers, Inc.
Michael Miller
Account # 1051149

Wastebeds 9 Through 15
Gerelock Rd
Syracuse, NY 13209
ONONDAGA County
Lat./Long. 43.07100 / 76.24960
EDR Inquiry # 02963764.2r

Should you wish to change or add to your order, fax this form to your EDR account executive:

Liz Mahoney
Ph: 1-800-352-0050 Fax: 1-800-231-6802

Reports

___ EDR Sanborn Map® Search/Print

___ EDR Fire Insurance Map Abstract

___ EDR Multi-Tenant Retail Facility® Report

___ EDR City Directory Abstract

___ EDR Aerial Photo Decade Package

___ USGS Aerial 5 Package

___ USGS Aerial 3 Package

___ EDR Historical Topographic Maps

___ Paper Current USGS Topo (7.5 min.)

___ Environmental Lien Search

___ Chain of Title Search

___ NJ MacRaes Industrial Directory Report

___ EDR Telephone Interview

Shipping:

___ Email
___ Express, Next Day Delivery — RUSH SERVICE IS AVAILABLE
___ Express, Second Day Delivery
___ Express, Next day Delivery — Customer Account — Acct # _____
___ Express, Second Day Delivery — Customer Account — Acct # _____
___ U.S. Mail

Thank you

Wastebeds 9 Through 15
Gerelock Rd
Syracuse, NY 13209

Inquiry Number: 02963764.7r
January 10, 2011

EDR NEPACheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
EDR NEPACheck® Description	1
Map Findings Summary	2
Natural Areas	3
Historic Sites	5
Flood Plain	11
Wetlands	13
Wetlands Classification System	17
FCC & FAA Sites	21
Key Contacts and Government Records Searched	26

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR NEPACheck® DESCRIPTION

The National Environmental Policy Act of 1969 (NEPA) requires that Federal agencies include in their decision-making processes appropriate and careful consideration of all environmental effects and actions, analyze potential environmental effects of proposed actions and their alternatives for public understanding and scrutiny, avoid or minimize adverse effects of proposed actions, and restore and enhance environmental quality as much as possible.

The EDR NEPACheck provides information which may be used, in conjunction with additional research, to determine whether a proposed site or action will have significant environmental effect.

The report provides maps and data for the following items (where available). Search results are provided in the Map Findings Summary on page 2 of this report.

Section	Regulation
Natural Areas Map	
• Federal Lands Data:	
- Officially designated wilderness areas	47 CFR 1.1307(1)
- Officially designated wildlife preserves, sanctuaries and refuges	47 CFR 1.1307(2)
- Wild and scenic rivers	40 CFR 6.302(e)
- Fish and Wildlife	40 CFR 6.302
• Threatened or Endangered Species, Fish and Wildlife, Critical Habitat Data (where available)	47 CFR 1.1307(3); 40 CFR 6.302
Historic Sites Map	
• National Register of Historic Places	47 CFR 1.1307(4); 40 CFR 6.302
• State Historic Places (where available)	
• Indian Reservations	
Flood Plain Map	
• National Flood Plain Data (where available)	47 CFR 1.1307(6); 40 CFR 6.302
Wetlands Map	
• National Wetlands Inventory Data (where available)	47 CFR 1.1307(7); 40 CFR 6.302
FCC & FAA Map	
• FCC antenna/tower sites, FAA Markings and Obstructions, Airports, Topographic gradient	47 CFR 1.1307(8)
Key Contacts and Government Records Searched	

MAP FINDINGS SUMMARY

The databases searched in this report are listed below. Database descriptions and other agency contact information is contained in the Key Contacts and Government Records Searched section on page 26 of this report.

TARGET PROPERTY ADDRESS

WASTEBEDS 9 THROUGH 15
GERELOCK RD
SYRACUSE, NY 13209

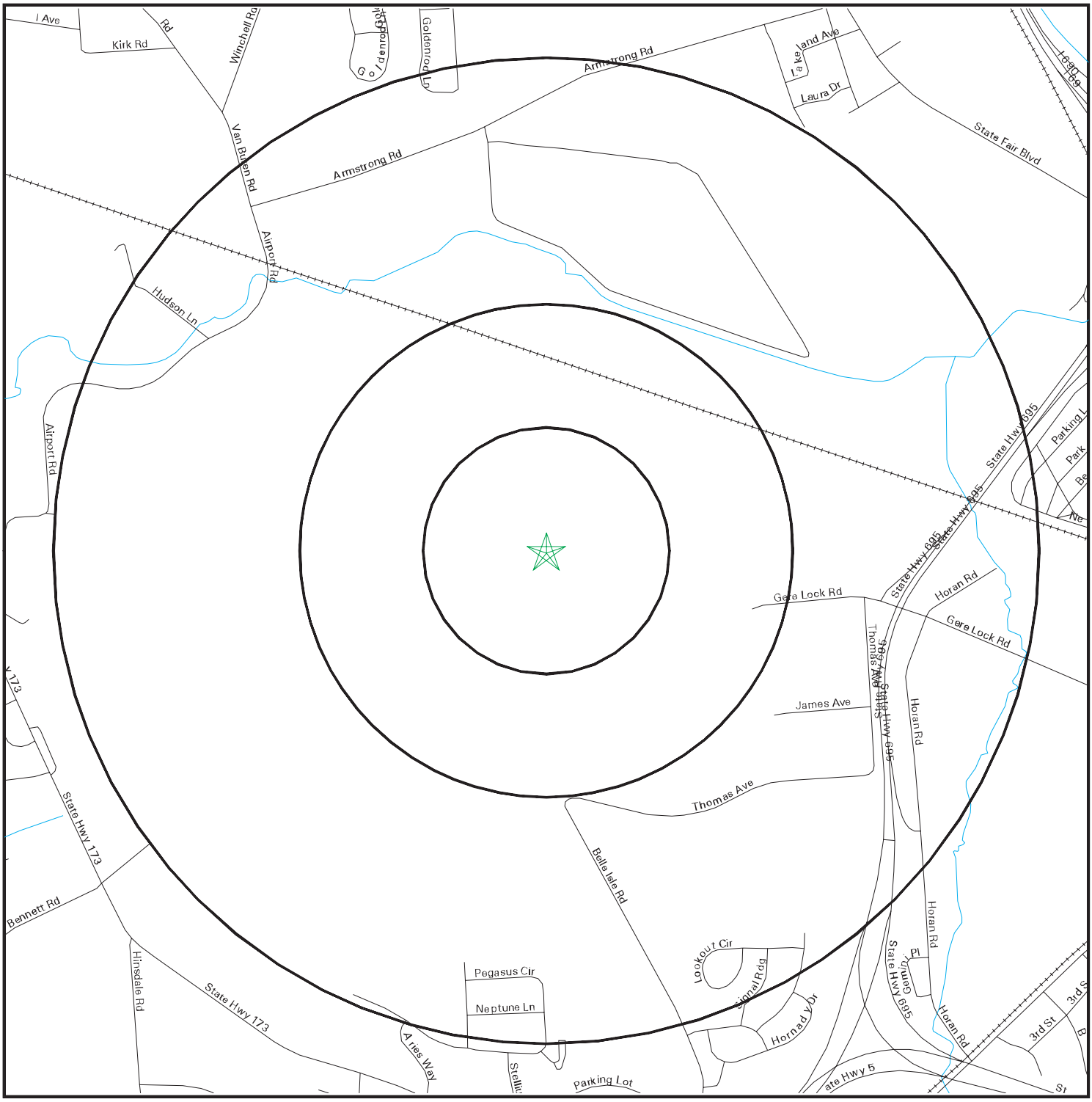
Inquiry #: 02963764.7r
Date: 1/10/11

TARGET PROPERTY COORDINATES

Latitude (North):	43.070999 - 43° 4' 15.6''
Longitude (West):	76.249603 - 76° 14' 58.6''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	398261.1
UTM Y (Meters):	4769242.0

Applicable Regulation from 47 CFR/FCC Checklist	Database	Search Distance (Miles)	Within Search	Within 1/8 Mile
NATURAL AREAS MAP				
1.1307a (1) Officially Designated Wilderness Area	US Federal Lands	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	US Federal Lands	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	NY Wildlife Management Areas	1.00	NO	NO
1.1307a (3) Threatened or Endangered Species or Critical Habitat	County Endangered Species	County	YES	N/A
HISTORIC SITES MAP				
1.1307a (4) Listed or eligible for National Register	National Register of Hist. Pla	1.00	NO	NO
	Indian Reservation	1.00	NO	NO
	APPAL_TRAIL	1.00	NO	NO
FLOODPLAIN MAP				
1.1307 (6) Located in a Flood Plain	FLOODPLAIN	1.00	YES	NO
WETLANDS MAP				
1.1307 (7) Change in surface features (wetland fill)	NWI	1.00	YES	YES
FCC & FAA SITES MAP				
	Cellular	1.00	NO	NO
	4G Cellular	1.00	NO	NO
	Antenna Structure Registration	1.00	YES	NO
	Towers	1.00	NO	NO
	AM Antenna	1.00	NO	NO
	FM Antenna	1.00	NO	NO
	FAA DOF	1.00	NO	NO
	Airports	1.00	NO	---
	Power Lines	1.00	YES	---

Natural Areas Map



- Target Property
- Roads
- County Boundary
- Waterways
- Water
- Locations
- Federal Areas
- Federal Linear Features
- State Areas
- State Linear Features

SITE NAME:	Wastebeds 9 Through 15	CLIENT:	O Brien & Gere Engineers, Inc.
ADDRESS:	Gerelock Rd Syracuse NY 13209	CONTACT:	Michael Miller
		INQUIRY #:	02963764.7r
LAT/LONG:	43.0710 / 76.2496	DATE:	January 10, 2011

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NATURAL AREAS MAP FINDINGS

Endangered Species Listed for: ONONDAGA County, NY.

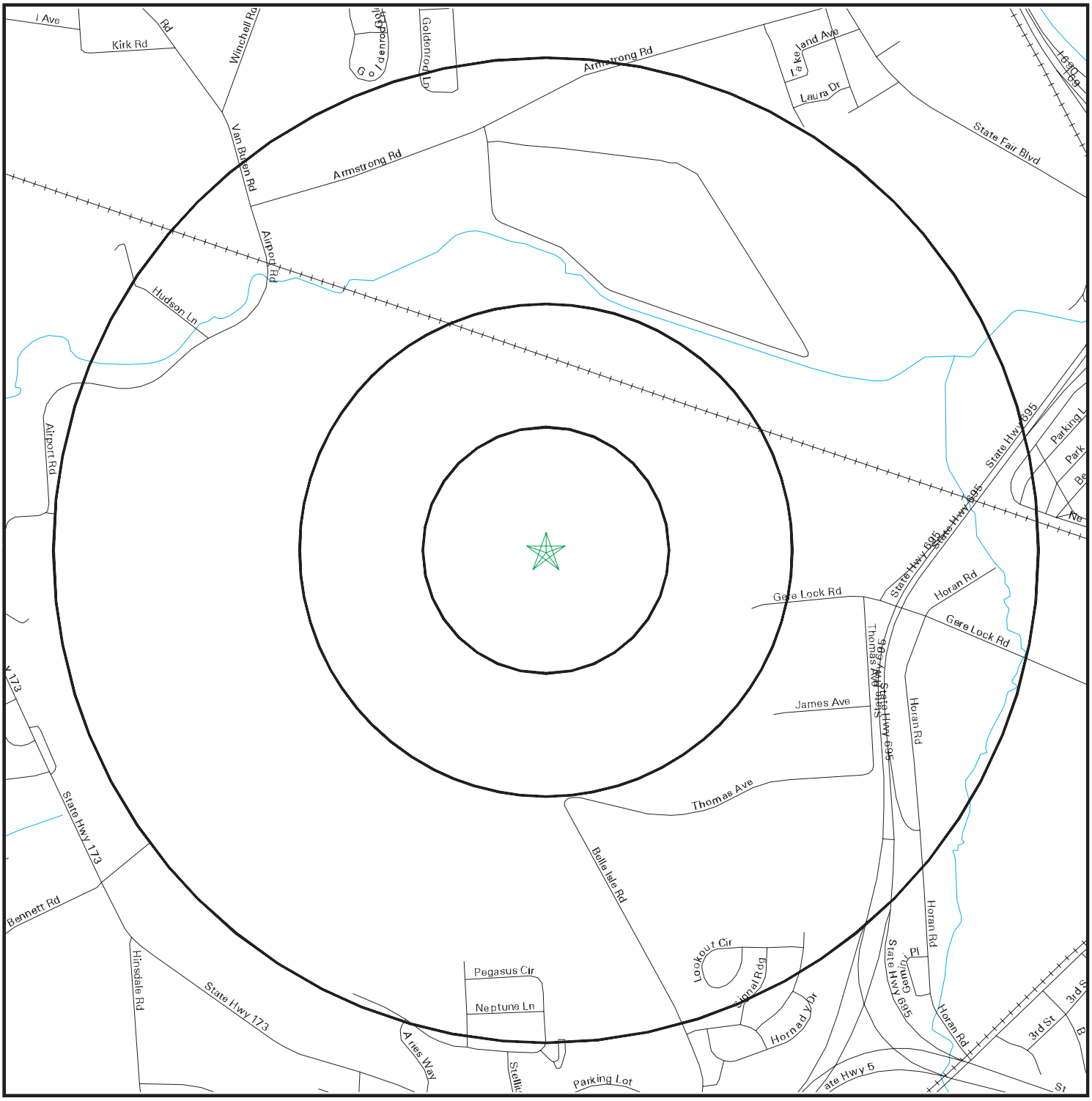
Source: EPA Endangered Species Protection Program Database

BIRD:	EAGLE, BALD
MAMMAL:	BAT, INDIANA
PLANT:	POGONIA, SMALL WHORLED
PLANT:	FERN, AMERICAN HART'S-TONGUE

Map ID Direction Distance Distance (ft.)	EDR ID Database

No mapped sites were found in EDR's search of available government records within the search radius around the target property.

Historic Sites Map



- Target Property
- Streets
- County Boundary
- Waterways
- Water
- Historic Sites
- Federal Historic Areas
- State Historic Areas
- US Indian Reservations
- Scenic Trail

SITE NAME:	Wastebeds 9 Through 15	CLIENT:	O Brien & Gere Engineers, Inc.
ADDRESS:	Gerelock Rd Syracuse NY 13209	CONTACT:	Michael Miller
		INQUIRY #:	02963764.7r
LAT/LONG:	43.0710 / 76.2496	DATE:	January 10, 2011

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HISTORIC SITES MAP FINDINGS

Map ID Direction Distance Distance (ft.)	EDR ID Database

No mapped sites were found in EDR's search of available government records within the search radius around the target property.

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Unmappable
04000429
National Register of Hist. Places

Refnum:	04000429
Resname:	Babcock--Shattuck House
Address:	2000-2004 W. Genesee St.
Resource Type:	Building
Number buildings:	000001
Number sites:	Not Reported
Number structs:	Not Reported
Number objects:	Not Reported
Non-contrib bldg:	Not Reported
Non-contrib sites:	Not Reported
Non-contrib structs:	Not Reported
Non-contrib objects:	Not Reported
Primary Certification:	Listed in the national register
Certification date:	20040512
Acreage:	9
Alternate name:	Not Reported
County:	Onondaga
City:	Syracuse
Applicable Criteria:	Event
Applicable Criteria:	Person
Applicable Criteria:	Architecture/Engineering
Areas of significance:	Architecture
Areas of significance:	Health/medicine
Areas of significance:	Social history
Areas of significance:	European
Current Function:	Vacant/not in use
Building Material:	Stone
Building Material:	Wood
Building Material:	Asphalt
Alternate name:	Jewish War Veterans Post

Unmappable
05000439
National Register of Hist. Places

Refnum:	05000439
Resname:	Elmwood Park
Address:	Glenwood Ave., South Ave., City Boundary
Resource Type:	Site
Number buildings:	000001
Number sites:	000001
Number structs:	000020
Number objects:	Not Reported
Non-contrib bldg:	Not Reported
Non-contrib sites:	000003
Non-contrib structs:	000008
Non-contrib objects:	000062
Primary Certification:	Listed in the national register
Certification date:	20050519

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Acreage: 265
Alternate name: Historic Designed Landscapes of Syracuse MPS
County: Onondaga
City: Syracuse
Applicable Criteria: Event
Applicable Criteria: Architecture/Engineering
Areas of significance: Landscape architecture
Areas of significance: Community planning and development
Areas of significance: Entertainment/recreation
Current Function: Landscape
Current Function: Recreation and culture

Unmappable
79001613
National Register of Hist. Places

Refnum: 79001613
Resname: Hawley-Green Street Historic District
Address: Green St. and Hawley Ave.
Resource Type: District
Number buildings: 000048
Number sites: 000000
Number structs: 000000
Number objects: 000000
Non-contrib bldg: 000002
Non-contrib sites: 000000
Non-contrib structs: 000000
Non-contrib objects: 000000
Primary Certification: Listed in the national register
Certification date: 19790502
Acreage: 120
Alternate name: Not Reported
County: Onondaga
City: Syracuse
Applicable Criteria: Architecture/Engineering
Areas of significance: Architecture
Current Function: Domestic
Building Material: None listed
Building Material: Weatherboard
Building Material: Brick
Building Material: None listed
Building Material: Wood

Unmappable
87000635
National Register of Hist. Places

Refnum: 87000635
Resname: Syracuse Post Office and Courthouse
Address: 4 Clinton Sq.
Resource Type: Building

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

Number buildings:	000001
Number sites:	000000
Number structs:	000000
Number objects:	000001
Non-contrib bldg:	000000
Non-contrib sites:	000000
Non-contrib structs:	000000
Non-contrib objects:	000000
Primary Certification:	Date received/pending nomination
Certification date:	19870323
Acreage:	25
Alternate name:	Not Reported
County:	Onondaga
City:	Syracuse
Applicable Criteria:	Event
Applicable Criteria:	Architecture/Engineering
Areas of significance:	Politics/government
Areas of significance:	Architecture
Current Function:	Commerce/trade
Building Material:	None listed
Building Material:	Limestone
Building Material:	Brick
Building Material:	None listed
Building Material:	Limestone
Building Material:	Bronze

Unmappable
72000895
National Register of Hist. Places

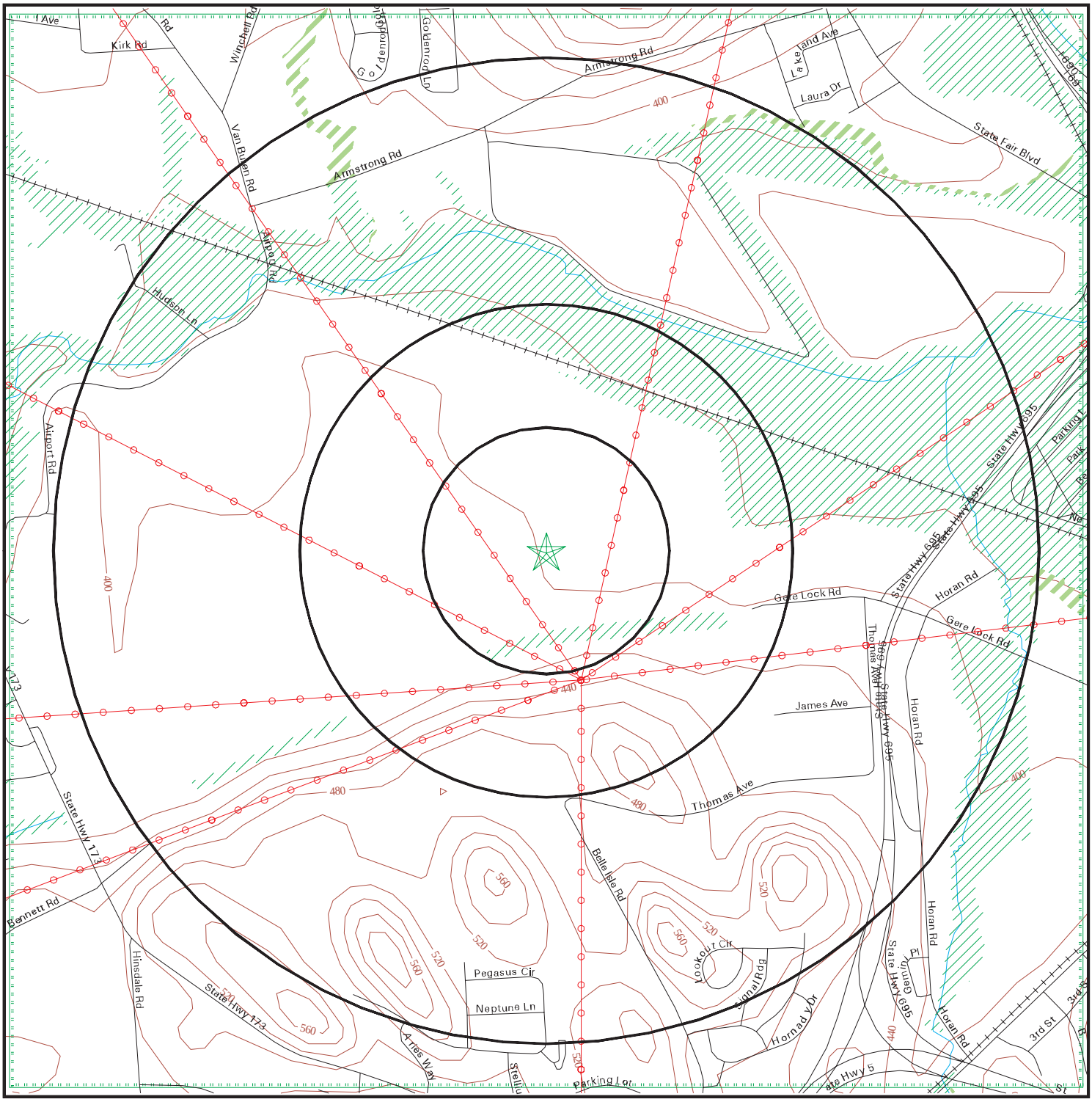
Refnum:	72000895
Resname:	Teall, Oliver, House
Address:	105 S. Beech St.
Resource Type:	Building
Number buildings:	000001
Number sites:	000000
Number structs:	000000
Number objects:	000000
Non-contrib bldg:	000000
Non-contrib sites:	000000
Non-contrib structs:	000000
Non-contrib objects:	000000
Primary Certification:	Removed from national register
Certification date:	19901210
Acreage:	0
Alternate name:	Not Reported
County:	Onondaga
City:	Syracuse
Applicable Criteria:	Architecture/Engineering
Applicable Criteria:	Person
Areas of significance:	Commerce
Areas of significance:	Engineering
Areas of significance:	Architecture

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped: **Status**
EDR ID
Database

Areas of significance:	Invention
Areas of significance:	Social history
Current Function:	Domestic
Building Material:	None listed
Building Material:	Stucco
Building Material:	None listed
Building Material:	Wood

Flood Plain Map



- Major Roads
- Contour Lines
- Waterways
- County Boundary
- Power Lines
- Pipe Lines
- Fault Lines
- Water
- 100-year flood zone
- 500-year flood zone
- Electronic FEMA data available
- Electronic FEMA data not available

SITE NAME:	Wastebeds 9 Through 15	CLIENT:	O Brien & Gere Engineers, Inc.
ADDRESS:	Gerelock Rd Syracuse NY 13209	CONTACT:	Michael Miller
		INQUIRY #:	02963764.7r
LAT/LONG:	43.0710 / 76.2496	DATE:	January 10, 2011

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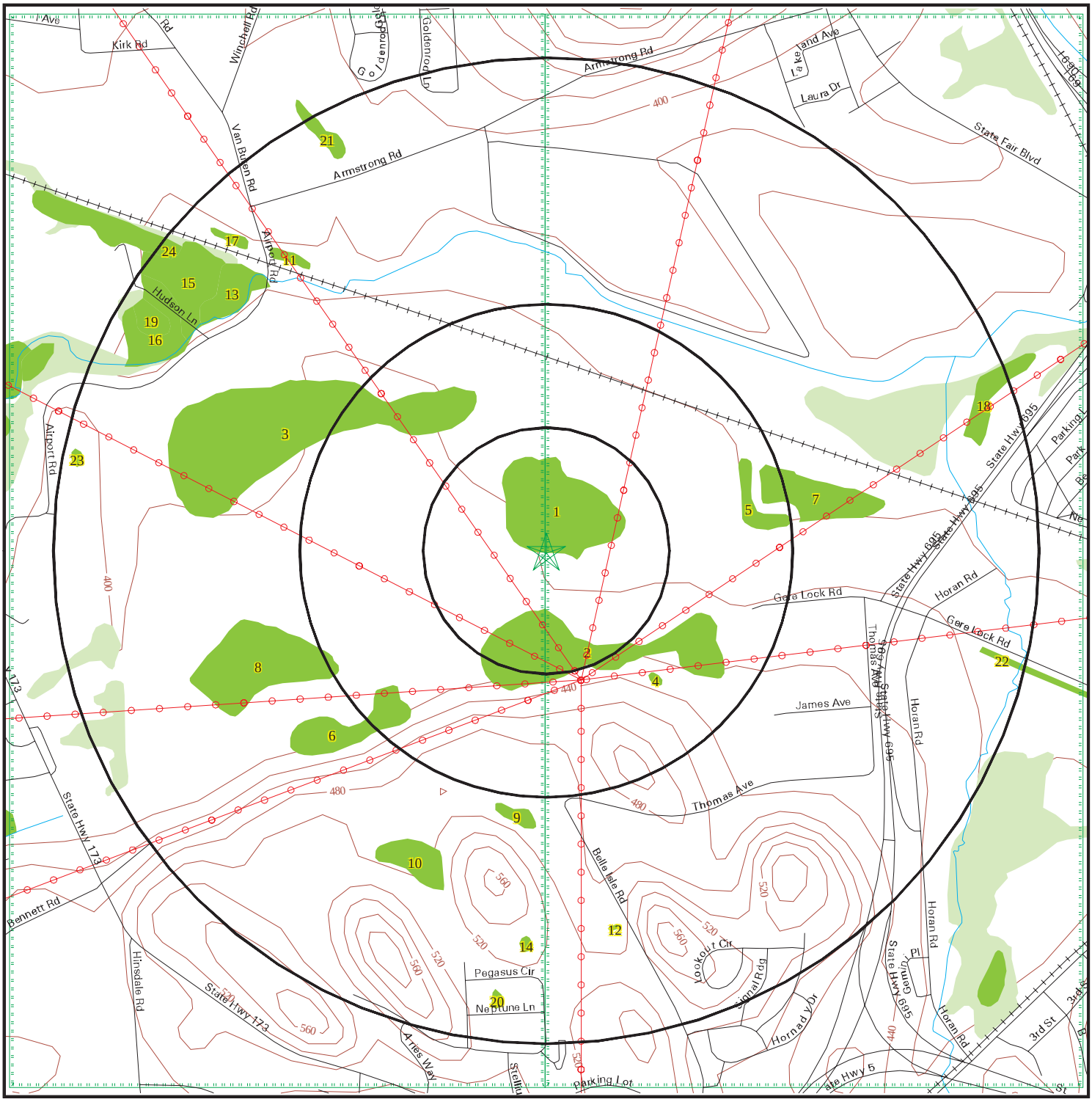
FLOOD PLAIN MAP FINDINGS

Source: FEMA DFIRM Flood Data, FEMA Q3 Flood Data

County	FEMA flood data electronic coverage
ONONDAGA, NY	YES

Flood Plain panel at target property: 3605700004C (FEMA Q3 Flood data)
Additional Flood Plain panel(s) in search area:
3605790003C (FEMA Q3 Flood data)
00000000000 (FEMA Q3 Flood data)
3605700007C (FEMA Q3 Flood data)

National Wetlands Inventory Map



- Major Roads
- Contour Lines
- Waterways
- County Boundary
- Power Lines
- Pipe Lines
- Fault Lines
- Water
- National Wetland Inventory
- State Wetlands
- Electronic NWI data available
- Electronic NWI data not available

SITE NAME:	Wastebeds 9 Through 15	CLIENT:	O Brien & Gere Engineers, Inc.
ADDRESS:	Gerelock Rd Syracuse NY 13209	CONTACT:	Michael Miller
		INQUIRY #:	02963764.7r
LAT/LONG:	43.0710 / 76.2496	DATE:	January 10, 2011

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WETLANDS MAP FINDINGS

Source: Fish and Wildlife Service NWI data

NWI hardcopy map at target property: Syracuse West
Additional NWI hardcopy map(s) in search area:
Camillus

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
1 North 0-1/8 mi 0	L2UBKFhs [L] Lacustrine, [2] Littoral, [UB] Unconsolidated Bottom, [K] Artificially Flooded, [F] Semipermanently Flooded, [h] Diked/Impounded, [s] Spoil Lat/Lon: 43.070999 / -76.249603	NWI
2 South 0-1/8 mi 615	L2UBKFhs [L] Lacustrine, [2] Littoral, [UB] Unconsolidated Bottom, [K] Artificially Flooded, [F] Semipermanently Flooded, [h] Diked/Impounded, [s] Spoil Lat/Lon: 43.069313 / -76.249649	NWI
3 NW 1/4-1/2 mi 1649	L2UBKFhs [L] Lacustrine, [2] Littoral, [UB] Unconsolidated Bottom, [K] Artificially Flooded, [F] Semipermanently Flooded, [h] Diked/Impounded, [s] Spoil Lat/Lon: 43.074749 / -76.253052	NWI
4 SE 1/4-1/2 mi 1715	PUBHx [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [x] Excavated Lat/Lon: 43.067410 / -76.245445	NWI
5 East 1/4-1/2 mi 2126	PUBKHh [P] Palustrine, [UB] Unconsolidated Bottom, [K] Artificially Flooded, [H] Permanently Flooded, [h] Diked/Impounded Lat/Lon: 43.072048 / -76.241776	NWI
6 SW 1/4-1/2 mi 2155	L2UBKFhs [L] Lacustrine, [2] Littoral, [UB] Unconsolidated Bottom, [K] Artificially Flooded, [F] Semipermanently Flooded, [h] Diked/Impounded, [s] Spoil Lat/Lon: 43.067005 / -76.255554	NWI
7 ENE 1/4-1/2 mi 2369	L1UBKHh [L] Lacustrine, [1] Limnetic, [UB] Unconsolidated Bottom, [K] Artificially Flooded, [H] Permanently Flooded, [h] Diked/Impounded Lat/Lon: 43.072521 / -76.240974	NWI
8 WSW 1/4-1/2 mi 2542	L2UBKFhs [L] Lacustrine, [2] Littoral, [UB] Unconsolidated Bottom, [K] Artificially Flooded, [F] Semipermanently Flooded, [h] Diked/Impounded, [s] Spoil Lat/Lon: 43.067635 / -76.257935	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
9 South 1/2-1 mi 2741	PEM/ABF [P] Palustrine, [EM] Emergent / , [AB] Aquatic Bed, [F] Semipermanently Flooded Lat/Lon: 43.063591 / -76.251389	NWI
10 SSW 1/2-1 mi 3387	PFO1E [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [E] Seasonally Flooded/Saturated Lat/Lon: 43.062458 / -76.254593	NWI
11 NW 1/2-1 mi 3938	PSS1/EM5E Wetland code is undefined. To evaluate the wetland description for this area, use the "Wetland Classification System" tables included in this report. Lat/Lon: 43.079262 / -76.259102	NWI
12 South 1/2-1 mi 4065	PUBFx [P] Palustrine, [UB] Unconsolidated Bottom, [F] Semipermanently Flooded, [x] Excavated Lat/Lon: 43.060036 / -76.246773	NWI
13 NW 1/2-1 mi 4092	PFO1A [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [A] Temporarily Flooded Lat/Lon: 43.078762 / -76.260666	NWI
14 South 1/2-1 mi 4131	PUBHx [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [x] Excavated Lat/Lon: 43.059677 / -76.250404	NWI
15 WNW 1/2-1 mi 4406	PSS1/EM5A Wetland code is undefined. To evaluate the wetland description for this area, use the "Wetland Classification System" tables included in this report. Lat/Lon: 43.077606 / -76.263412	NWI
16 WNW 1/2-1 mi 4420	PEM5E Wetland code is undefined. To evaluate the wetland description for this area, use the "Wetland Classification System" tables included in this report. Lat/Lon: 43.076935 / -76.264030	NWI
17 NW 1/2-1 mi 4552	PUBF [P] Palustrine, [UB] Unconsolidated Bottom, [F] Semipermanently Flooded Lat/Lon: 43.079880 / -76.261581	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
18 ENE 1/2-1 mi 4635	PEM1E [P] Palustrine, [EM] Emergent, [1] Persistent, [E] Seasonally Flooded/Saturated Lat/Lon: 43.074390 / -76.232872	NWI
19 WNW 1/2-1 mi 4673	PEM/UBF [P] Palustrine, [EM] Emergent / , [UB] Unconsolidated Bottom, [F] Semipermanently Flooded Lat/Lon: 43.077412 / -76.264748	NWI
20 South 1/2-1 mi 4724	PUBHx [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [x] Excavated Lat/Lon: 43.058121 / -76.251640	NWI
21 NNW 1/2-1 mi 4744	PFO1C [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [C] Seasonally Flooded Lat/Lon: 43.082554 / -76.257790	NWI
22 ESE 1/2-1 mi 4762	L1UBHx [L] Lacustrine, [1] Limnetic, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [x] Excavated Lat/Lon: 43.068031 / -76.232239	NWI
23 West 1/2-1 mi 5060	PUBF [P] Palustrine, [UB] Unconsolidated Bottom, [F] Semipermanently Flooded Lat/Lon: 43.073563 / -76.268211	NWI
24 NW 1/2-1 mi 5061	PFO1/SS1Cd [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous / , [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [C] Seasonally Flooded, [d] Partially Drained/Ditched Lat/Lon: 43.079681 / -76.264381	NWI

*See Wetland Classification System for additional information.

WETLANDS CLASSIFICATION SYSTEM

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a sub-department of the U.S. Department of the Interior. In 1974, the U.S. Fish and Wildlife Service developed a criteria for wetland classification with four long range objectives:

- to describe ecological units that have certain homogeneous natural attributes,
- to arrange these units in a system that will aid decisions about resource management,
- to furnish units for inventory and mapping, and
- to provide uniformity in concepts and terminology throughout the U.S.

High altitude infrared photographs, soil maps, topographic maps and site visits are the methods used to gather data for the productions of these maps. In the infrared photos, wetlands appear as different colors and these wetlands are then classified by type. Using a hierarchical classification, the maps identify wetland and deepwater habitats according to:

- system
- subsystem
- class
- subclass
- modifiers

(as defined by Cowardin, et al. U.S. Fish and Wildlife Service FWS/OBS 79/31. 1979.)

The classification system consists of five systems:

1. marine
2. estuarine
3. riverine
4. lacustrine
5. palustrine

The marine system consists of deep water tidal habitats and adjacent tidal wetlands. The riverine system consists of all wetlands contained within a channel. The lacustrine systems includes all nontidal wetlands related to swamps, bogs & marshes. The estuarine system consists of deepwater tidal habitats and where ocean water is diluted by fresh water. The palustrine system includes nontidal wetlands dominated by trees and shrubs and where salinity is below .5% in tidal areas. All of these systems are divided in subsystems and then further divided into class.

National Wetland Inventory Maps are produced by transferring gathered data on a standard 7.5 minute U.S.G.S. topographic map. Approximately 52 square miles are covered on a National Wetland Inventory map at a scale of 1:24,000. Electronic data is compiled by digitizing these National Wetland Inventory Maps.

SYSTEM **MARINE**

SUBSYSTEM **1 - SUBTIDAL** **2 - INTERTIDAL**

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RF-REEF	OW-OPEN WATER / Unknown Bottom	AB-AQUATIC BED	RF-REEF	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascular 5 Unknown Submergent	1 Coral 3 Worm		1 Algal 3 Rooted Vascular 5 Unknown Submergent	1 Coral 3 Worm	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic

SYSTEM **E - ESTUARINE**

SUBSYSTEM **1 - SUBTIDAL**

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RF-REEF	OW-OPEN WATER / Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	2 Mollusk 3 Worm	

SUBSYSTEM **2 - INTERTIDAL**

CLASS	AB-AQUATIC BED	RF-REEF	SB - STREAMBED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	EM-EMERGENT	SS-SCRUB SHRUB	FO-FORESTED
Subclass	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	2 Mollusk 3 Worm	1 Cobble- Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubble	1 Cobble- Gravel 2 Sand 3 Mud 4 Organic	1 Persistent 2 Nonpersistent	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

SYSTEM — **R - RIVERINE**

SUBSYSTEM	**1 - TIDAL**	**2 - LOWER PERENNIAL**	**3 - UPPER PERENNIAL**	**4 - INTERMITTENT**	**5 - UNKNOWN PERENNIAL**
CLASS	RB-ROCK BOTTOM UB-UNCONSOLIDATED BOTTOM *SB-STREAMBED AB-AQUATIC BED RS-ROCKY SHORE US-UNCONSOLIDATED SHORE **EM-EMERGENT OW-OPEN WATER/ Unknown Bottom				
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubble 3 Cobble-Gravel 4 Sand 5 Mud 6 Organic 7 Vegetated	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	2 Nonpersistent

* STREAMBED is limited to TIDAL and INTERMITTENT SUBSYSTEMS, and comprises the only CLASS in the INTERMITTENT SUBSYSTEM.
**EMERGENT is limited to TIDAL and LOWER PERENNIAL SUBSYSTEMS.

SYSTEM — **L - LACUSTRINE**

SUBSYSTEM — **1 - LIMNETIC**

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	

SUBSYSTEM — **2 - LITTORAL**

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	EM-EMERGENT	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	2 Nonpersistent	

SUBSYSTEM **P - PALUSTRINE**

CLASS	RB--ROCK BOTTOM	UB--UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	US--UNCONSOLIDATED SHORE	ML--MOSS-LICHEN	EM--EMERGENT	SS--SCRUB-SHRUB	FO--FORESTED	OW-OPEN WATER/ Unknown
Bottom									
Subclass	1 Bedrock 2 Rubble 3 Mud 4 Organic	1 Cobble-Gravel 2 Sand	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6Deciduous 7 Evergreen	

MODIFIERS

In order to more adequately describe wetland and deepwater habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME

Non-Tidal

A Temporarily Flooded
B Saturated
C Seasonally Flooded
D Seasonally Flooded/ Well Drained
E Seasonally Flooded/ Saturated
F Semipermanently Flooded
G Intermittently Exposed

Tidal

H Permanently Flooded
J Intermittently Flooded
K Artificially Flooded
W Intermittently Flooded/Temporary
Y Saturated/Semipermanent/ Seasonal
Z Intermittently Exposed/Permanent
U Unknown

Coastal Salinity Modifiers for Inland Salinity pH Modifiers for all Fresh Water

K Artificially Flooded
L Subtidal
M Irregularly Exposed
N Regularly Flooded
P Irregularly Flooded

*S Temporary-Tidal
*R Seasonal-Tidal
*T Semipermanent -Tidal
V Permanent -Tidal
U Unknown

*These water regimes are only used in tidally influenced, freshwater systems.

WATER CHEMISTRY

1 Hyperhaline
2 Euhaline
3 Mixohaline (Brackish)
4 Polyhaline
5 Mesohaline
6 Oligohaline
0 Fresh

7 Hypersaline
8 Eusaline
9 Mixosaline
0 Fresh

a Acid
t Circumneutral
i Alkaline

SOIL

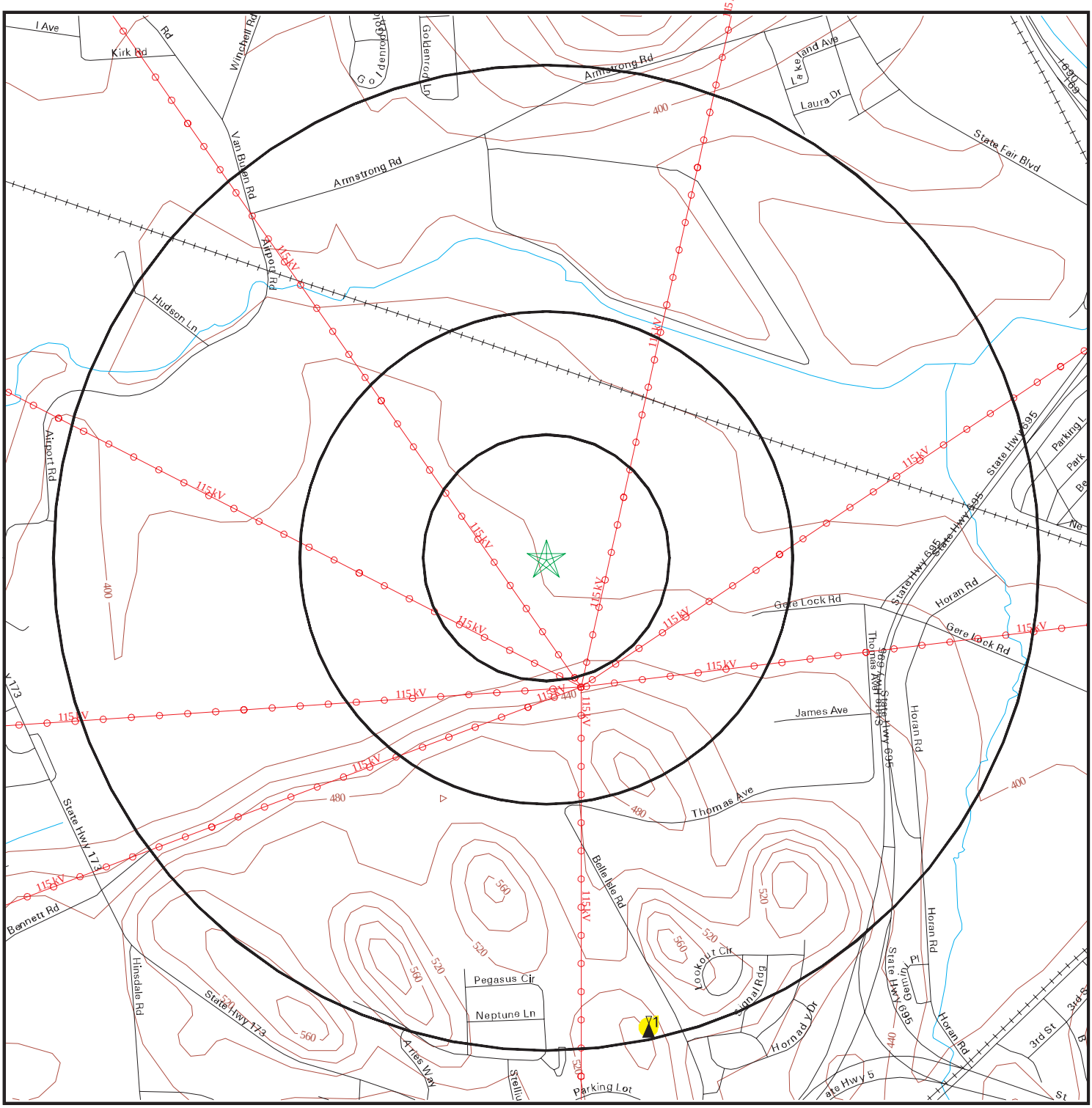
g Organic
n Mineral

SPECIAL MODIFIERS

b Beaver
d Partially Drained/Ditched
f Farmed
h Diked/Impounded
r Artificial Substrate
s Spoil
x Excavated

Source: U.S. Department of the Interior
Fish and Wildlife Service
National Wetlands Inventory

FCC & FAA Sites Map



SITE NAME:	Wastebeds 9 Through 15	CLIENT:	O Brien & Gere Engineers, Inc.
ADDRESS:	Gerelock Rd Syracuse NY 13209	CONTACT:	Michael Miller
		INQUIRY #:	02963764.7r
LAT/LONG:	43.0710 / 76.2496	DATE:	January 10, 2011

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FCC & FAA SITES MAP FINDINGS
TOWERS

Map ID
Direction
Distance
Distance (ft.)

EDR ID
Database

1
SSE
1/2-1 mi
5146

ANT200000101019
ANTREG

Regnum:	1008237
Filenum:	A0633729
Issuedate:	4/30/2009
Entity:	STC Five LLC
Lat dms:	43,3,26
Lat dir:	1
Lon dms:	76,14,44
Lon dir:	-1
Dd temp:	43.0572
Dd temp0:	-76.2455
Strucht:	15.5
Strucadd:	BELLE ISLE RD
Struccity:	FAIRMONT
Strucstate:	NY
Faastudy:	96-AEA-1419-OE
Faacirc:	Not Reported
Licid:	L01051890
Contname:	Not Reported
Contadd:	6391 Sprint Parkway
Contpo:	KSOPHT0101-Z3390
Contcity:	Overland Park
Contstate:	KS
Contzip:	66251
Edr id:	ANT200000101019

This record is for a license, and it may or may not indicate a site which has been built.

FCC & FAA SITES MAP FINDINGS
AIRPORTS

EDR ID
Database

No Sites Reported.

FCC & FAA SITES MAP FINDINGS
POWERLINES

EDR ID
Database

POW10000004297
POWERLINES

Name:	NY St
Id:	2844
Kv:	115
Label:	115 kV
Company:	New York State Electric & Gas Corp.
Companyabb:	NYSEG
Edr id:	POW10000004297

POW10000004300
POWERLINES

Name:	NY St
Id:	2847
Kv:	115
Label:	115 kV
Company:	New York State Electric & Gas Corp.
Companyabb:	NYSEG
Edr id:	POW10000004300

POW10000004292
POWERLINES

Name:	Niaga
Id:	2839
Kv:	115
Label:	115 kV
Company:	Niagara Mohawk, a National Grid Co.
Companyabb:	Niagara Mohawk
Edr id:	POW10000004292

POW10000004295
POWERLINES

Name:	Niaga
Id:	2842
Kv:	115
Label:	115 kV
Company:	Niagara Mohawk, a National Grid Co.
Companyabb:	Niagara Mohawk
Edr id:	POW10000004295

POW10000004291
POWERLINES

Name:	Niaga
Id:	2838
Kv:	115
Label:	115 kV
Company:	Niagara Mohawk, a National Grid Co.
Companyabb:	Niagara Mohawk

FCC & FAA SITES MAP FINDINGS
POWERLINES

EDR ID
Database

Edr id: POW10000004291

POW10000004412
POWERLINES

Name: Niaga
Id: 2959
Kv: 115
Label: 115 kV
Company: Niagara Mohawk, a National Grid Co.
Companyabb: Niagara Mohawk
Edr id: POW10000004412

POW10000004293
POWERLINES

Name: Niaga
Id: 2840
Kv: 115
Label: 115 kV
Company: Niagara Mohawk, a National Grid Co.
Companyabb: Niagara Mohawk
Edr id: POW10000004293

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Various Federal laws and executive orders address specific environmental concerns. NEPA requires the responsible offices to integrate to the greatest practical extent the applicable procedures required by these laws and executive orders. EDR provides key contacts at agencies charged with implementing these laws and executive orders to supplement the information contained in this report.

NATURAL AREAS
Officially designated wilderness areas
Government Records Searched in This Report

FED_LAND: Federal Lands
Source: USGS
Telephone: 703-648-5094
Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.
- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.
Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

National Park Service, Northeast Region
200 custom Street, Fifth Floor
Philadelphia, PA 19106
215-597-7013

USDA Forest Service, Eastern
310 West Wisconsin Avenue
Milwaukee, WI 53203
414-297-3693

BLM - Eastern States Office
7450 Boston Blvd.
Springfield, VA 22153
703-440-1713

Fish & Wildlife Service, Region 5
Div. Of Personnel Mgmt. 300 Westgate Center Drive
Hadley, MA 01035-9589
413-253-8313

Officially designated wildlife preserves, sanctuaries and refuges
Government Records Searched in This Report

FED_LAND: Federal Lands
Source: USGS
Telephone: 703-648-5094
Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.
- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.
Date of Government Version: 12/31/2005

NY Wildlife Management Areas: Wildlife Management Areas
Borders of New York State Wildlife Management Areas
Source: Dept. of Env. Conservation.
Telephone: 518-783-5733

Federal Contacts for Additional Information

Fish & Wildlife Service, Region 5
Div. Of Personnel Mgmt. 300 Westgate Center Drive
Hadley, MA 01035-9589
413-253-8313

State Contacts for Additional Information

Dept. of Environmental Conservation 518-457-5690

Wild and scenic rivers

Government Records Searched in This Report

FED_LAND: Federal Lands
Source: USGS
Telephone: 703-648-5094
Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.
- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

Fish & Wildlife Service, Region 5
Div. Of Personnel Mgmt. 300 Westgate Center Drive
Hadley, MA 01035-9589
413-253-8313

Endangered Species

Government Records Searched in This Report

Endangered Species Protection Program Database
A listing of endangered species by county.
Source: Environmental Protection Agency
Telephone: 703-305-5239

Federal Contacts for Additional Information

Fish & Wildlife Service, Region 5
Div. Of Personnel Mgmt. 300 Westgate Center Drive
Hadley, MA 01035-9589
413-253-8313

State Contacts for Additional Information

Natural Heritage Program, Dept. of Environmental Conservation 518-783-3932

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

LANDMARKS, HISTORICAL, AND ARCHEOLOGICAL SITES
Historic Places
Government Records Searched in This Report

National Register of Historic Places:
The National Register of Historic Places is the official federal list of districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering, and culture. These contribute to an understanding of the historical and cultural foundations of the nation.
The National Register includes:
- All prehistoric and historic units of the National Park System;
- National Historic Landmarks, which are properties recognized by the Secretary of the Interior as possessing national significance; and
- Properties significant in American, state, or local prehistory and history that have been nominated by State Historic Preservation Officers, federal agencies, and others, and have been approved for listing by the National Park Service.

Date of Government Version: 03/23/2006

Federal Contacts for Additional Information

Park Service; Advisory Council on Historic Preservation
1849 C Street NW
Washington, DC 20240
Phone: (202) 208-6843

State Contacts for Additional Information

Parks, Recreation & Historic Preservation 518-474-0443

Indian Religious Sites
Government Records Searched in This Report

Indian Reservations:
This map layer portrays Indian administrated lands of the United States that have any area equal to or greater than 640 acres.
Source: USGS
Phone: 888-275-8747
Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

Department of the Interior- Bureau of Indian Affairs
Office of Public Affairs
1849 C Street, NW
Washington, DC 20240-0001
Office: 202-208-3711
Fax: 202-501-1516

National Association of Tribal Historic Preservation Officers
1411 K Street NW, Suite 700
Washington, DC 20005
Phone: 202-628-8476
Fax: 202-628-2241

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

State Contacts for Additional Information
A listing of local Tribal Leaders and Bureau of Indian Affairs Representatives can be found at:
http://www.doi.gov/bia/areas/agency.html

Eastern Area Office, Bureau of Indian Affairs
3701 N. Fairfax Drive Mail Stop 260-VASQ
Arlington, VA 22203
703-235-2571

Scenic Trails

Government Records Searched in This Report
APPAL_TRAIL: Appalachian Trail
Source: Appalachian Trail Conference
Telephone: (304) 535-6331
Appalachian Trail centerline.

State Contacts for Additional Information
Appalachian Trail Conference
799 Washington Street P.O. Box 807
Harpers Ferry, WV 25425-0807
(304) 535-6331

North County Trail Association
49 Monroe Center Suite 200B
Grand Rapids, Michigan 49503
616-454-5506

FLOOD PLAIN, WETLANDS AND COASTAL ZONE

Flood Plain Management
Government Records Searched in This Report
Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

Federal Contacts for Additional Information
Federal Emergency Management Agency 877-3362-627

State Contacts for Additional Information
New York State Emergency Management Office 518-457-2200

Wetlands Protection
Government Records Searched in This Report
NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2004 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Federal Contacts for Additional Information
Fish & Wildlife Service 813-570-5412

State Contacts for Additional Information
Dept. of Environmental Conservation 518-457-5690

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Coastal Zone Management
Government Records Searched in This Report
CAMA Management Areas
Dept. of Env., Health & Natural Resources
919-733-2293

Federal Contacts for Additional Information
Office of Ocean and Coastal Resource Management
N/ORM, SSMC4
1305 East-West Highway
Silver Spring, Maryland 20910
301-713-3102

State Contacts for Additional Information
Dept of State, Div. Of Coastal Resources & Waterfront Revitalization 518-474-3643

FCC & FAA SITES MAP
For NEPA actions that come under the authority of the FCC, the FCC requires evaluation of Antenna towers and/or supporting structures that are to be equipped with high intensity white lights which are to be located in residential neighborhoods, as defined by the applicable zoning law.

Government Records Searched in This Report
Cellular
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

4G Cellular
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

Antenna Structure Registration
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

Towers
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

AM Antenna
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

FM Antenna
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

FAA Digital Obstacle File
Federal Aviation Administration (FAA)
1305 East-West Highway, Station 5631
Silver Sprinng, MD 20910-3281
Telephone: 301-713-2817
Describes known obstacles of interest to aviation users in the US. Used by the Federal Aviation Administration (FAA) and the National Oceanic and Atmospheric Administration to manage the National Airspace System.

Airport Landing Facilities
Federal Aviation Administration
Telephone (800) 457-6656
Private and public use landing facilities.

Electric Power Transmission Line Data
Rextag Strategies Corp.
14405 Walters Road, Suite 510
Houston, TX 77014
281-769-2247
U.S. Electric Transmission and Power Plants systems Digital GIS Data.

Excessive Radio Frequency Emission
For NEPA actions that come under the authority of the FCC, Commission actions granting construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities, require the determination of whether the particular facility, operation or transmitter would cause human exposure to levels of radio frequency in excess of certain limits.

Federal Contacts for Additional Information
Office of Engineering and Technology
Federal Communications Commission
445 12th Street SW
Washington, DC 20554
Phone: 202-418-2470

OTHER CONTACT SOURCES

STREET AND ADDRESS INFORMATION

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Wastebeds 9 Through 15
Gerelock Rd
Syracuse, NY 13209

Inquiry Number: 02963764.2r
January 10, 2011

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	7
Orphan Summary	629
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-11
Physical Setting Source Map Findings	A-13
Physical Setting Source Records Searched	A-48

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

GERELOCK RD
SYRACUSE, NY 13209

COORDINATES

Latitude (North):	43.071000 - 43° 4' 15.6''
Longitude (West):	76.249600 - 76° 14' 58.6''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	398261.1
UTM Y (Meters):	4769242.0
Elevation:	399 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	43076-A2 SYRACUSE WEST, NY
Most Recent Revision:	1978
West Map:	43076-A3 CAMILLUS, NY
Most Recent Revision:	1978

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	2006, 2008
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
GERELOCK RD GERELOCK RD SOLVAY, NY	NY Spills Date Closed: 3/21/2001 NY Hist Spills	N/A
ALLIED SIGNAL PROPERTY GERELOCK RD SOLVAY, NY	NY Spills Date Closed: 6/4/1999 NY Hist Spills	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

VAPOR REOPENED ---------- Vapor Intrustion Legacy Site List

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

CBS UST ---------- Chemical Bulk Storage Database
MOSF UST ---------- Major Oil Storage Facilities Database
MOSF AST ---------- Major Oil Storage Facilities Database
MOSF ---------- Major Oil Storage Facility Site Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land
FEMA UST ---------- Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

RES DECL ---------- Restrictive Declarations Listing

State and tribal voluntary cleanup sites

VCP ---------- Voluntary Cleanup Agreements

INDIAN VCP ---- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

ERP ---- Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ---- Open Dump Inventory
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
SWTIRE ---- Registered Waste Tire Storage & Facility List
SWRCY ---- Registered Recycling Facility List
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ---- Clandestine Drug Labs
DEL SHWS ---- Delisted Registry Sites
US HIST CDL ---- National Clandestine Laboratory Register

Local Land Records

LIENS 2 ---- CERCLA Lien Information
LUCIS ---- Land Use Control Information System

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS ---- Incident and Accident Data
DOD ---- Department of Defense Sites
FUDS ---- Formerly Used Defense Sites
CONSENT ---- Superfund (CERCLA) Consent Decrees
UMTRA ---- Uranium Mill Tailings Sites
MINES ---- Mines Master Index File
TRIS ---- Toxic Chemical Release Inventory System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ---- Section 7 Tracking Systems
ICIS ---- Integrated Compliance Information System
PADS ---- PCB Activity Database System
MLTS ---- Material Licensing Tracking System
RADINFO ---- Radiation Information Database
RAATS ---- RCRA Administrative Action Tracking System
E DESIGNATION ---- E DESIGNATION SITE LISTING

INDIAN RESERV Indian Reservations
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER PCB Transformer Registration Database
COAL ASH DOE Sleam-Electric Plan Operation Data
COAL ASH Coal Ash Disposal Site Listing

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 07/02/2010 has revealed that there is 1 NPL site within approximately 2.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONONDAGA LAKE SEDIMENTS	***ONONDAGA LAKE***	***ENE 1/2 - 1 (0.783 mi.)***	***0***	***12***

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either

proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 01/29/2010 has revealed that there is 1 CERCLIS site within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONONDAGA LAKE SEDIMENTS	*ONONDAGA LAKE*	*ENE 1/2 - 1 (0.783 mi.)*	*0*	*12*

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 06/23/2009 has revealed that there are 3 CERC-NFRAP sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LCP CHEMICAL /NY INC	*MATHEWS AVE*	*SE 1 - 2 (1.359 mi.)*	*T97*	*367*
FRAZER & JONES	*3000 MILTON AVE*	*SE 1 - 2 (1.360 mi.)*	*T100*	*412*
T.E.K. DRY CLEANERS	*852 STATE FAIR BLVD*	*NNE 1 - 2 (1.500 mi.)*	*X118*	*497*

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 05/25/2010 has revealed that there are 4 CORRACTS sites within approximately 2.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LCP CHEMICAL /NY INC	*MATHEWS AVE*	*SE 1 - 2 (1.359 mi.)*	*T97*	*367*
SOUTHERN CONTAINER CORP	*500 HINSDALE RD*	*SSW 1 - 2 (1.503 mi.)*	*Y120*	*511*

Lower Elevation	Address	Direction / Distance	Map ID	Page
NIAGARA MOHAWK SOLVAY	*BRIDGE ST*	*E 1 - 2 (1.659 mi.)*	*AB129*	*545*
SPECIALTY METALS/CRUCIBLE LAND	*STATE FAIR BLVD WASTEBE*	*E 1 - 2 (1.950 mi.)*	*AE143*	*614*

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 02/17/2010 has revealed that there is 1 RCRA-LQG site within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LCP CHEMICAL /NY INC	***MATHEWS AVE***	***SE 1 - 2 (1.359 mi.)***	***T97***	***367***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/17/2010 has revealed that there is 1 RCRA-SQG site within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORTHSIDE COLLISION	509 HINSDALE RD	SW 1 - 2 (1.415 mi.)	U112	467

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 02/17/2010 has revealed that there are 2 RCRA-CESQG sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KINANECO	2925 MILTON AVE COR CAS	ESE 1 - 2 (1.381 mi.)	V106	435

Lower Elevation	Address	Direction / Distance	Map ID	Page
VAL'S MOTORS, INC.	***756 STATE FAIR BLVD***	***NNE 1 - 2 (1.236 mi.)***	***L53***	***211***

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 12/20/2009 has revealed that

there is 1 US ENG CONTROLS site within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONONDAGA LAKE SEDIMENTS	***ONONDAGA LAKE***	***ENE 1/2 - 1 (0.783 mi.)***	***0***	***12***

US INST CONTROL: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROL list, as provided by EDR, and dated 12/20/2009 has revealed that there is 1 US INST CONTROL site within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONONDAGA LAKE SEDIMENTS	***ONONDAGA LAKE***	***ENE 1/2 - 1 (0.783 mi.)***	***0***	***12***

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the SHWS list, as provided by EDR, and dated 11/23/2010 has revealed that there are 4 SHWS sites within approximately 2.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LCP CHEMICAL	***MATTHEWS AVE***	***SE 1 - 2 (1.359 mi.)***	***T93***	***352***
Class Code: Significant threat to the public health or environment - action required.				
ALLIED CHEMICAL - WILLIS AVENU	WILLIS AVENUE	SE 1 - 2 (1.359 mi.)	T96	364
Class Code: Significant threat to the public health or environment - action required.				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CRUCIBLE STEEL - SYRACUSE OPER	STATE FAIR BOULEVARD	E 1 - 2 (1.950 mi.)	AE144	623
Class Code: Does not present a significant threat to the public health or the environment - action may be deferred.				
WILLIS AVENUE - FORMER BALL FI	585 STATE FAIR BLVD. SO	E >2 (2.131 mi.)	145	625
Class Code: Significant threat to the public health or environment - action required.				

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the SWF/LF list, as provided by EDR, and dated 10/13/2010 has revealed that there are 11

SWF/LF sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BELLE ISLE C&D LANDFILL	6051 BELLE ISLE RD.	S 1/2 - 1 (0.659 mi.)	C7	54
HONEYWELL/CAMILLUS BED #15 C&D	***6051 BELLE ISLE RD.***	***S 1/2 - 1 (0.660 mi.)***	***C8***	***55***
ALLIED CHEMICAL DEMO SLF	MATHEWS AVE	SE 1 - 2 (1.359 mi.)	T94	361
FRAZER AND JONES CO.	3000 MILTON AVE	SE 1 - 2 (1.360 mi.)	T99	411
NYS FAIRGROUNDS SLF	STATE FAIR BLVD	ENE 1 - 2 (1.601 mi.)	126	544
SOLVAY TRANSFER STATION	BOYD AVENUE	ESE 1 - 2 (1.645 mi.)	AA128	545

Lower Elevation	Address	Direction / Distance	Map ID	Page
OCRRA - AMBOY SITE	6296 AIRPORT ROAD	WNW 1/2 - 1 (0.825 mi.)	14	71
ALLIED CHEMICAL WASTE BEDS 12-	BELLE ISLE ROAD	E 1 - 2 (1.113 mi.)	24	108
INDUSTRIAL LF CRUCIBLE	P.O. BOX 977	NE 1 - 2 (1.615 mi.)	127	544
MATLOW COMPANY; INC	333 BRIDGE SREET	E 1 - 2 (1.662 mi.)	AB130	563
CRUSHED PRODUCTS; INC.	320 BRIDGE STREET	E 1 - 2 (1.670 mi.)	AC132	566

State and tribal leaking storage tank lists

LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the LTANKS list, as provided by EDR, and dated 11/23/2010 has revealed that there are 26 LTANKS sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIANCHI EXCAVATING Date Closed: 8/6/1996	***BIANCHI EXCAVATING***	***E 1/2 - 1 (0.755 mi.)***	***D11***	***65***
CAMILLUS DOT GARAGE Date Closed: 12/7/1987	***AIRPORT ROAD***	***WNW 1/2 - 1 (0.997 mi.)***	***21***	***100***
NIAGARA MOHAWK Date Closed: 8/8/2005	101 GEMINI PLACE	SE 1 - 2 (1.133 mi.)	29	119
SOLVAY HIGHWAY GARAGE Date Closed: 11/10/1994	***3143 MILTON AVE***	***SE 1 - 2 (1.346 mi.)***	***S81***	***306***
STANTON FOUNDRY Date Closed: 9/17/1991	***3004 MILTON AVE***	***SE 1 - 2 (1.359 mi.)***	***T92***	***342***
ATLANTIC STA. RT. 173 Date Closed: 11/14/1990	***RTE. 173 & MILTON AVE.***	***SSE 1 - 2 (1.455 mi.)***	***115***	***484***
NIMO HINSDALE SERVICE CTR Date Closed: 8/6/2002	***500 HINSDALE ROAD***	***SSW 1 - 2 (1.503 mi.)***	***Y121***	***521***
LARRY MCGRAW Date Closed: 10/31/2003	***MILTON & HINSDALE***	***SSW 1 - 2 (1.515 mi.)***	***Y123***	***536***
FEMANO'S AUTOMOTIVE Date Closed: 1/30/2004	***2459 MILTON AVENUE***	***ESE 1 - 2 (1.570 mi.)***	***Z124***	***538***
JEROME PLMB., MILTON AVE. Date Closed: 8/11/1987	***CITGO STATION; MILTON A***	***ESE 1 - 2 (1.587 mi.)***	***Z125***	***541***
SYRACUSE POTTERY Date Closed: 5/23/1990	***SYRACUSE POTTERY RD***	***WNW 1 - 2 (1.678 mi.)***	***133***	***567***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LCP (AGAIN) Date Closed: 7/27/1988	***SOUTH STORAGE AREA***	***ESE 1 - 2 (1.679 mi.)***	***AA134***	***569***
LCP CAUSTIC TANK Date Closed: 9/18/1988	***MATHEWS AVE***	***ESE 1 - 2 (1.679 mi.)***	***AA135***	***572***
MILTON AVE Date Closed: 2/27/1996	***2239 MILTON AVE.***	***ESE 1 - 2 (1.736 mi.)***	***138***	***583***
QUICKWAY Date Closed: 8/15/2000	***915 STATE FAIR BLVD***	***N 1 - 2 (1.739 mi.)***	***AD139***	***586***
DORCO Date Closed: 10/24/1990	***915 STATE FAIR BLVD***	***N 1 - 2 (1.739 mi.)***	***AD140***	***591***
MAHIMA ONE CORP Date Closed: 10/4/1989	***915 STATE FAIR BLVD***	***N 1 - 2 (1.739 mi.)***	***AD141***	***596***
SOUTHERN CONTAINER -SYRACUSE Date Closed: 11/4/2005	***100 SOUTHERN DRIVE***	***SW 1 - 2 (1.750 mi.)***	***142***	***611***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROBERT SPENCE Date Closed: 3/31/1993	***AIRPORT & WARNERS RD***	***WNW 1/2 - 1 (0.846 mi.)***	***E15***	***72***
NYSDOT Date Closed: 3/22/1989	***AIRPORT RD&SOUTH DEY RD***	***WNW 1/2 - 1 (0.884 mi.)***	***E20***	***98***
GAS STATION Date Closed: 8/5/2002	***756 STATE FAIR BLVD***	***NNE 1 - 2 (1.235 mi.)***	***L52***	***208***
LUBER INC Date Closed: 7/21/2003	***690 STATE FAIR BLVD***	***NE 1 - 2 (1.259 mi.)***	***N65***	***251***
SYRACUSE EXCUTIVE AIR Date Closed: 8/5/2002	***SYRACUSE AIRPORT***	***E 1 - 2 (1.392 mi.)***	***W110***	***454***
CLARKS PETROLEUM SERVICE Date Closed: 5/24/1994	***690W NEAR FAIRGRD***	***ENE 1 - 2 (1.488 mi.)***	***117***	***495***
BALLARD CONSTRUCTION Date Closed: 3/25/1993	***320 BRIDGE STREET***	***E 1 - 2 (1.669 mi.)***	***AC131***	***564***
CARBONE PONTIAC Date Closed: 1/31/1991	***HIAWATHA & STATE FAIR***	***E 1 - 2 (1.733 mi.)***	***137***	***581***

HIST LTANKS: A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database.

A review of the HIST LTANKS list, as provided by EDR, and dated 01/01/2002 has revealed that there are 23 HIST LTANKS sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIANCHI EXCAVATING Date Closed: 08/06/96	***BIANCHI EXCAVATING***	***E 1/2 - 1 (0.755 mi.)***	***D11***	***65***
CAMILLUS DOT GARAGE Date Closed: 12/07/87	***AIRPORT ROAD***	***WNW 1/2 - 1 (0.997 mi.)***	***21***	***100***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOLVAY HIGHWAY GARAGE Date Closed: 11/10/94	***3143 MILTON AVE***	***SE 1 - 2 (1.346 mi.)***	***S81***	***306***
STANTON FOUNDRY Date Closed: 09/17/91	***3004 MILTON AVE***	***SE 1 - 2 (1.359 mi.)***	***T92***	***342***
ATLANTIC STA. RT. 173 Date Closed: 11/14/90	***RTE. 173 & MILTON AVE.***	***SSE 1 - 2 (1.455 mi.)***	***115***	***484***
NIMO HINSDALE SERVICE CTR Date Closed: / /	***500 HINSDALE ROAD***	***SSW 1 - 2 (1.503 mi.)***	***Y121***	***521***
LARRY MCGRAW Date Closed: / /	***MILTON & HINSDALE***	***SSW 1 - 2 (1.515 mi.)***	***Y123***	***536***
FEMANO'S AUTOMOTIVE Date Closed: / /	***2459 MILTON AVENUE***	***ESE 1 - 2 (1.570 mi.)***	***Z124***	***538***
JEROME PLMB., MILTON AVE. Date Closed: 08/11/87	***CITGO STATION; MILTON A***	***ESE 1 - 2 (1.587 mi.)***	***Z125***	***541***
SYRACUSE POTTERY Date Closed: 05/23/90	***SYRACUSE POTTERY RD***	***WNW 1 - 2 (1.678 mi.)***	***133***	***567***
LCP (AGAIN) Date Closed: 07/27/88	***SOUTH STORAGE AREA***	***ESE 1 - 2 (1.679 mi.)***	***AA134***	***569***
LCP CAUSTIC TANK Date Closed: 09/18/88	***MATHEWS AVE***	***ESE 1 - 2 (1.679 mi.)***	***AA135***	***572***
MILTON AVE Date Closed: 02/27/96	***2239 MILTON AVE.***	***ESE 1 - 2 (1.736 mi.)***	***138***	***583***
QUICKWAY Date Closed: 08/15/00	***915 STATE FAIR BLVD***	***N 1 - 2 (1.739 mi.)***	***AD139***	***586***
DORCO Date Closed: 10/24/90	***915 STATE FAIR BLVD***	***N 1 - 2 (1.739 mi.)***	***AD140***	***591***
MAHIMA ONE CORP Date Closed: 10/04/89	***915 STATE FAIR BLVD***	***N 1 - 2 (1.739 mi.)***	***AD141***	***596***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROBERT SPENCE Date Closed: 03/31/93	***AIRPORT & WARNERS RD***	***WNW 1/2 - 1 (0.846 mi.)***	***E15***	***72***
NYSDOT Date Closed: 03/22/89	***AIRPORT RD&SOUTH DEY RD***	***WNW 1/2 - 1 (0.884 mi.)***	***E20***	***98***
GAS STATION Date Closed: / /	***756 STATE FAIR BLVD***	***NNE 1 - 2 (1.235 mi.)***	***L52***	***208***
SYRACUSE EXCUTIVE AIR Date Closed: / /	***SYRACUSE AIRPORT***	***E 1 - 2 (1.392 mi.)***	***W110***	***454***
CLARKS PETROLEUM SERVICE Date Closed: 05/24/94	***690W NEAR FAIRGRD***	***ENE 1 - 2 (1.488 mi.)***	***117***	***495***
BALLARD CONSTRUCTION Date Closed: 03/25/93	***320 BRIDGE STREET***	***E 1 - 2 (1.669 mi.)***	***AC131***	***564***
CARBONE PONTIAC Date Closed: 01/31/91	***HIAWATHA & STATE FAIR***	***E 1 - 2 (1.733 mi.)***	***137***	***581***

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, and dated 10/05/2010 has revealed that there are 14 UST sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIANCHI EXCAVATING, INC.	5987 BELLE ISLE RD	SSE 1/2 - 1 (0.867 mi.)	F19	94
SOLVAY HIGHWAY GARAGE	3143 MILTON AVE	SE 1 - 2 (1.346 mi.)	S80	303
ALLIED INDUSTRIAL LAUNDRY	***3117 MILTON AVE***	***SE 1 - 2 (1.348 mi.)***	***S82***	***317***
STANTON FOUNDRY	***3004 MILTON AVE***	***SE 1 - 2 (1.359 mi.)***	***T92***	***342***
CORRENTE SERVICE STATION	***2913 MILTON AVE***	***ESE 1 - 2 (1.386 mi.)***	***V108***	***441***
SOLVAY BIG M	***2909 MILTON AVE***	***ESE 1 - 2 (1.388 mi.)***	***V109***	***449***
POOJA ENTERPRISES	***3385 MILTON AVE***	***SSE 1 - 2 (1.402 mi.)***	***111***	***456***
FASTRAC MARKET #287	***507 HINSDALE RD***	***SW 1 - 2 (1.437 mi.)***	***114***	***473***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VAL'S MOTORS INC.	***756 STATE FAIR BLVD***	***NNE 1 - 2 (1.236 mi.)***	***L55***	***226***
BYRNE DAIRY LAKELAND	759 - 763 STATE FAIR BL	NNE 1 - 2 (1.235 mi.)	L58	233
FRANK G. POPE	***691 STATE FAIR BLVD***	***NE 1 - 2 (1.250 mi.)***	***N64***	***245***
LUBER INC.	690 STATE FAIR BLVD	NE 1 - 2 (1.259 mi.)	N67	267
ESTATE OF JOHN S. FACIK	***670 STATE FAIR BLVD***	***ENE 1 - 2 (1.308 mi.)***	***O71***	***276***
NEW YORK STATE FAIR DIV	***DEPT OF AGRICULTURE & M***	***E 1 - 2 (1.460 mi.)***	***W116***	***487***

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the AST list, as provided by EDR, and dated 10/05/2010 has revealed that there are 7 AST sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAMILLUS C&D LANDFILL	6051 BELLE ISLE RD	S 1/2 - 1 (0.660 mi.)	C9	60
BIANCHI EXCAVATING, INC.	***5987 BELLE ISLE RD.***	***SSE 1/2 - 1 (0.867 mi.)***	***F18***	***77***
CAMILLUS PUMP STATION	***4718 MILTON AVE.***	***S 1 - 2 (1.309 mi.)***	***P74***	***286***
SOLVAY HIGHWAY GARAGE	***3143 MILTON AVE***	***SE 1 - 2 (1.346 mi.)***	***S81***	***306***
FRAZER & JONES COMPANY	3000 MILTON AVE	SE 1 - 2 (1.360 mi.)	T102	426

Lower Elevation	Address	Direction / Distance	Map ID	Page
LUBER INC.	***690 STATE FAIR BLVD.***	***NE 1 - 2 (1.259 mi.)***	***N66***	***254***
NEW YORK STATE FAIR DIV	***DEPT OF AGRICULTURE & M***	***E 1 - 2 (1.460 mi.)***	***W116***	***487***

CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2

CBS AST sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAMILLUS PUMP STATION	4718 MILTON AVENUE	S 1 - 2 (1.309 mi.)	P73	284

Lower Elevation	Address	Direction / Distance	Map ID	Page
SYRACUSE GENERATING FACILITY	***300 BELLE ISLE ROAD***	***ESE 1 - 2 (1.146 mi.)***	***I35***	***171***

CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the CBS list, as provided by EDR, and dated 10/05/2010 has revealed that there are 3 CBS sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HONEYWELL INTERNATIONAL INC.	***522 GERE LOCK RD***	***E 1/2 - 1 (0.599 mi.)***	***B3***	***47***
ALLIED INDUSTRIAL LAUNDRY	***3117 MILTON AVE***	***SE 1 - 2 (1.348 mi.)***	***S82***	***317***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SYRACUSE GENERATING FACILITY	***300 BELLE ISLE ROAD***	***ESE 1 - 2 (1.146 mi.)***	***I35***	***171***

State and tribal institutional control / engineering control registries

ENG CONTROLS: Environmental Remediation sites that have engineering controls in place.

A review of the ENG CONTROLS list, as provided by EDR, and dated 11/23/2010 has revealed that there is 1 ENG CONTROLS site within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
P&S / BOYD AVE.	***50 BOYD AVENUE***	***ESE 1 - 2 (1.512 mi.)***	***122***	***524***

INST CONTROL: Environmental Remediation sites that have institutional controls in place.

A review of the INST CONTROL list, as provided by EDR, and dated 11/23/2010 has revealed that there is 1 INST CONTROL site within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
P&S / BOYD AVE.	***50 BOYD AVENUE***	***ESE 1 - 2 (1.512 mi.)***	***122***	***524***

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

A review of the BROWNFIELDS list, as provided by EDR, and dated 11/23/2010 has revealed that there are 3 BROWNFIELDS sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
P&S / BOYD AVE.	***50 BOYD AVENUE***	***ESE 1 - 2 (1.512 mi.)***	***122***	***524***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PARCEL A--MATHEWS AVENUE LANDF	303 BELLE ISLE ROAD	ESE 1 - 2 (1.142 mi.)	I33	128
ONONDAGA COGENERATION LTD PART	***300 BRIDGE ST***	***ESE 1 - 2 (1.682 mi.)***	***AC136***	***575***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 15 HIST UST sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIANCHI EXCAVATING, INC.	***5987 BELLE ISLE RD.***	***SSE 1/2 - 1 (0.867 mi.)***	***F18***	***77***
CAMILLUS PUMP STATION	***4718 MILTON AVE.***	***S 1 - 2 (1.309 mi.)***	***P74***	***286***
SOLVAY HIGHWAY GARAGE	***3143 MILTON AVE***	***SE 1 - 2 (1.346 mi.)***	***S81***	***306***
ALLIED INDUSTRIAL LAUNDRY	***3117 MILTON AVE***	***SE 1 - 2 (1.348 mi.)***	***S82***	***317***
CAMILLUS HIGHWAY DEPARTMENT	3097 MILTON AVE.	SE 1 - 2 (1.349 mi.)	S83	323
STANTON FOUNDRY	***3004 MILTON AVE***	***SE 1 - 2 (1.359 mi.)***	***T92***	***342***
CORRENTE SERVICE STATION	***2913 MILTON AVE***	***ESE 1 - 2 (1.386 mi.)***	***V108***	***441***
SOLVAY BIG M	***2909 MILTON AVE***	***ESE 1 - 2 (1.388 mi.)***	***V109***	***449***
POOJA ENTERPRISES	***3385 MILTON AVE***	***SSE 1 - 2 (1.402 mi.)***	***111***	***456***
FASTRAC MARKET #287	***507 HINSDALE RD***	***SW 1 - 2 (1.437 mi.)***	***114***	***473***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VAL'S MOTORS INC.	***756 STATE FAIR BLVD***	***NNE 1 - 2 (1.236 mi.)***	***L55***	***226***
FRANK G. POPE	***691 STATE FAIR BLVD***	***NE 1 - 2 (1.250 mi.)***	***N64***	***245***
LUBER INC.	***690 STATE FAIR BLVD.***	***NE 1 - 2 (1.259 mi.)***	***N66***	***254***
ESTATE OF JOHN S. FACIK	***670 STATE FAIR BLVD***	***ENE 1 - 2 (1.308 mi.)***	***O71***	***276***
NEW YORK STATE FAIR DIV	***DEPT OF AGRICULTURE & M***	***E 1 - 2 (1.460 mi.)***	***W116***	***487***

HIST AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the HIST AST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2 HIST AST sites within approximately 1.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIANCHI EXCAVATING, INC.	***5987 BELLE ISLE RD.***	***SSE 1/2 - 1 (0.867 mi.)***	***F18***	***77***

Lower Elevation	Address	Direction / Distance	Map ID	Page
SYRACUSE GENERATING FACILITY	***300 BELLE ISLE ROAD***	***ESE 1 - 2 (1.146 mi.)***	***I35***	***171***

EXECUTIVE SUMMARY

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 11/23/2010 has revealed that there are 46 NY Spills sites within approximately 1.375 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONONDAGA LAKE SEDIMENTS Date Closed: 7/20/1992	***ONONDAGA LAKE***	***ENE 1/2 - 1 (0.783 mi.)***	***0***	***12***
HONEYWELL INTERNATIONAL INC. Date Closed: 11/22/2010	***522 GERE LOCK RD***	***E 1/2 - 1 (0.599 mi.)***	***B3***	***47***
GERELOCK I Date Closed: 8/4/1993	***THOMAS AVE & GERELOCK RE 1/2 - 1 (0.651 mi.)***		***B4***	***49***
GERELOCK RD. II Date Closed: 8/4/1993	***GERELOCK RD. & THOMAS D E 1/2 - 1 (0.651 mi.)***		***B5***	***52***
GERELOCK RD. Date Closed: 5/27/1993	***GERELOCK RD***	***E 1/2 - 1 (0.673 mi.)***	***10***	***63***
DUKE'S PLUMBING Date Closed: 4/22/2010	5987 BELLE ISLE RD	SSE 1/2 - 1 (0.867 mi.)	F17	76
ARMSTRONG ROAD Date Closed: 12/31/1993	***280 ARMSTRONG***	***NNE 1 - 2 (1.063 mi.)***	***22***	***103***
HORNADY DR Date Closed: 10/30/1995	***306 HORNADY DR***	***SSE 1 - 2 (1.108 mi.)***	***23***	***106***
GUY SALVATERRA Date Closed: 9/21/2000	***3475 WARNERS RD***	***WSW 1 - 2 (1.120 mi.)***	***G25***	***109***
Not reported Date Closed: 12/7/2001	***3475 WARNERS RD***	***WSW 1 - 2 (1.120 mi.)***	***G26***	***111***
BOCHINO RESIDENCE Date Closed: 10/31/1995	***157 ARMSTRONG ROAD***	***NNE 1 - 2 (1.131 mi.)***	***H27***	***114***
ARMSTRONG ROAD Date Closed: 5/5/1994	***157 ARMSTRONG RD***	***NNE 1 - 2 (1.131 mi.)***	***H28***	***116***
O'BRIEN RESIDENCE Date Closed: 8/31/1997	***155 ARMSTRONG ROAD***	***NNE 1 - 2 (1.133 mi.)***	***H30***	***120***
155 ARMSTRONG RD Date Closed: 5/30/1994	***155/157 ARMSTRONG RD***	***NNE 1 - 2 (1.133 mi.)***	***H31***	***123***
Not reported Date Closed: 7/12/2000	***3703 WARNERS RD***	***SSW 1 - 2 (1.139 mi.)***	***32***	***125***
FINGERLAKES COLLISION Date Closed: 12/14/1994	***6171 AIRPORT ROAD***	***W 1 - 2 (1.148 mi.)***	***J39***	***187***
Not reported Date Closed: 6/21/2003	WARNERS RD & AIRPORT RD	W 1 - 2 (1.166 mi.)	J41	192
ROTELLA BODY SHOP Date Closed: 1/12/1993	***521 HORAN RD***	***SE 1 - 2 (1.246 mi.)***	***M62***	***237***
BTWN BENNETT & POTTERY Date Closed: 11/19/1996	***WARNERS RD***	***W 1 - 2 (1.311 mi.)***	***Q76***	***294***
OLD ERIE CANAL Date Closed: 3/4/1990	WARNERS RD/THOMPSON RD	W 1 - 2 (1.311 mi.)	Q77	298

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOLVAY HIGHWAY GARAGE Date Closed: 9/16/2005 Date Closed: 9/13/2010	***3143 MILTON AVE***	***SE 1 - 2 (1.346 mi.)***	***S81***	***306***
ALLIED INDUSTRIAL LAUNDRY Date Closed: 1/8/2009 Date Closed: 1/8/2009	***3117 MILTON AVE***	***SE 1 - 2 (1.348 mi.)***	***S82***	***317***
TOWN OF CAMILLUS HI-WAY Date Closed: 9/13/1991	***3097 MILTON AVE***	***SE 1 - 2 (1.349 mi.)***	***S84***	***326***
CAMILLUS HIGHWAY GARAGE Date Closed: 4/10/2008	3097 MILTON AVE	SE 1 - 2 (1.349 mi.)	S85	328
TOWN OF CAMILLUS HIGHWAY GARAG Date Closed: 1/8/2009	3097 MILTON AVE	SE 1 - 2 (1.349 mi.)	S86	330
108 PINAFORE DRIVE Date Closed: 6/30/2000	***108 PINAFORE DRIVE***	***WSW 1 - 2 (1.353 mi.)***	***87***	***331***
Not reported Date Closed: 9/1/2002	167 BENNETT RD	SW 1 - 2 (1.357 mi.)	90	338
FRAZIER JONES Date Closed: 5/12/1995	***3000 MILTON AVE***	***SE 1 - 2 (1.359 mi.)***	***T91***	***339***
LCP CHEMICAL Date Closed: 5/19/1988 Date Closed: 6/14/1988 **Additional key fields are available in the Map Findings section*	***MATTHEWS AVE***	***SE 1 - 2 (1.359 mi.)***	***T93***	***352***
CITGO INC., MILTON AVE. Date Closed: 6/4/1987	***MILTON AVE.***	***SE 1 - 2 (1.359 mi.)***	***T95***	***362***
LCP CHEMICAL /NY INC Date Closed: 7/22/1988 Date Closed: 8/25/1987 **Additional key fields are available in the Map Findings section*	***MATHEWS AVE***	***SE 1 - 2 (1.359 mi.)***	***T97***	***367***
FRAZER AND JONES Date Closed: 1/2/2008	3000 MILTON AVE	SE 1 - 2 (1.360 mi.)	T98	410
FRAISER & JONES Date Closed: 8/5/2002	***3000 MILTON AVENUE***	***SE 1 - 2 (1.360 mi.)***	***T101***	***424***

Lower Elevation	Address	Direction / Distance	Map ID	Page
OLD COUNTY YARD Date Closed: 8/19/2009	6392 AIRPORT ROAD	NW 1/2 - 1 (0.805 mi.)	13	70
ARMSTRONG ROAD Date Closed: 2/4/2008	3701 ARMSTRONG ROAD	NNW 1/2 - 1 (0.849 mi.)	16	75
BACOLA RESIDENCE Date Closed: 6/26/1989	***740 STATE FAIR BLVD***	***NE 1 - 2 (1.191 mi.)***	***K43***	***193***
LAKELAND GARAGE Date Closed: 2/11/1988	***759 STATE FAIR BLVD.***	***NNE 1 - 2 (1.234 mi.)***	***L47***	***199***
FAIR DELI MART Date Closed: 7/23/2008	757 STATE FAIR BLVD	NNE 1 - 2 (1.234 mi.)	L48	202
LAKE LAND GARAGE Date Closed: 5/10/2006	759 STATE FAIR BLVD	NNE 1 - 2 (1.235 mi.)	L49	203
THE LAKELAND GARAGE Date Closed: 9/5/2006	759 STATE FAIR BLVD	NNE 1 - 2 (1.235 mi.)	L50	205

Lower Elevation	Address	Direction / Distance	Map ID	Page
MYERS CAMPERS Date Closed: 8/5/2002	***759 STATE FAIR BLVD***	***NNE 1 - 2 (1.235 mi.)***	***L51***	***206***
VAL'S MOTORS, INC. Date Closed: 8/25/1995	***756 STATE FAIR BLVD***	***NNE 1 - 2 (1.236 mi.)***	***L53***	***211***
BYRNE DAIRY STORE Date Closed: 10/27/2008	759 STATE FAIR BLVD	NNE 1 - 2 (1.235 mi.)	L57	232
RUNOFF CREEK Date Closed: 11/4/1998	***3576 KIRK RD***	***NW 1 - 2 (1.294 mi.)***	***70***	***274***
670 STATE FAIR BLVD Date Closed: 8/6/2002	***670 STATE FAIR BLVD***	***ENE 1 - 2 (1.308 mi.)***	***O72***	***281***
ABANDONED DRUMS Date Closed: 12/13/1993	***SOLVAY FAIRGROUNDS EXIT***	***ENE 1 - 2 (1.346 mi.)***	***79***	***301***

NY Hist Spills: This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database.

A review of the NY Hist Spills list, as provided by EDR, and dated 01/01/2002 has revealed that there are 30 NY Hist Spills sites within approximately 1.375 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONONDAGA LAKE SEDIMENTS	***ONONDAGA LAKE***	***ENE 1/2 - 1 (0.783 mi.)***	***0***	***12***
GERELOCK I	***THOMAS AVE & GERELOCK R***	***E 1/2 - 1 (0.651 mi.)***	***B4***	***49***
GERELOCK RD. II	***GERELOCK RD. & THOMAS D***	***E 1/2 - 1 (0.651 mi.)***	***B5***	***52***
GERELOCK RD.	***GERELOCK RD***	***E 1/2 - 1 (0.673 mi.)***	***10***	***63***
ARMSTRONG ROAD	***280 ARMSTRONG***	***NNE 1 - 2 (1.063 mi.)***	***22***	***103***
HORNADY DR	***306 HORNADY DR***	***SSE 1 - 2 (1.108 mi.)***	***23***	***106***
GUY SALVATERRA	***3475 WARNERS RD***	***WSW 1 - 2 (1.120 mi.)***	***G25***	***109***
Not reported	***3475 WARNERS RD***	***WSW 1 - 2 (1.120 mi.)***	***G26***	***111***
BOCHINO RESIDENCE	***157 ARMSTRONG ROAD***	***NNE 1 - 2 (1.131 mi.)***	***H27***	***114***
ARMSTRONG ROAD	***157 ARMSTRONG RD***	***NNE 1 - 2 (1.131 mi.)***	***H28***	***116***
O'BRIEN RESIDENCE	***155 ARMSTRONG ROAD***	***NNE 1 - 2 (1.133 mi.)***	***H30***	***120***
155 ARMSTRONG RD	***155/157 ARMSTRONG RD***	***NNE 1 - 2 (1.133 mi.)***	***H31***	***123***
Not reported	***3703 WARNERS RD***	***SSW 1 - 2 (1.139 mi.)***	***32***	***125***
FINGERLAKES COLLISION	***6171 AIRPORT ROAD***	***W 1 - 2 (1.148 mi.)***	***J39***	***187***
ROTELLA BODY SHOP	***521 HORAN RD***	***SE 1 - 2 (1.246 mi.)***	***M62***	***237***
BTWN BENNETT & POTTERY	***WARNERS RD***	***W 1 - 2 (1.311 mi.)***	***Q76***	***294***
TOWN OF CAMILLUS HI-WAY	***3097 MILTON AVE***	***SE 1 - 2 (1.349 mi.)***	***S84***	***326***
108 PINAFORE DRIVE	***108 PINAFORE DRIVE***	***WSW 1 - 2 (1.353 mi.)***	***87***	***331***
FRAZIER JONES	***3000 MILTON AVE***	***SE 1 - 2 (1.359 mi.)***	***T91***	***339***
LCP CHEMICAL	***MATTHEWS AVE***	***SE 1 - 2 (1.359 mi.)***	***T93***	***352***
CITGO INC., MILTON AVE.	***MILTON AVE.***	***SE 1 - 2 (1.359 mi.)***	***T95***	***362***
LCP CHEMICAL /NY INC	***MATHEWS AVE***	***SE 1 - 2 (1.359 mi.)***	***T97***	***367***
FRAISER & JONES	***3000 MILTON AVENUE***	***SE 1 - 2 (1.360 mi.)***	***T101***	***424***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BACOLA RESIDENCE	***740 STATE FAIR BLVD***	***NE 1 - 2 (1.191 mi.)***	***K43***	***193***
LAKELAND GARAGE	***759 STATE FAIR BLVD.***	***NNE 1 - 2 (1.234 mi.)***	***L47***	***199***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MYERS CAMPERS	*759 STATE FAIR BLVD*	*NNE 1 - 2 (1.235 mi.)*	*L51*	*206*
VAL'S MOTORS, INC.	*756 STATE FAIR BLVD*	*NNE 1 - 2 (1.236 mi.)*	*L53*	*211*
RUNOFF CREEK	*3576 KIRK RD*	*NW 1 - 2 (1.294 mi.)*	*70*	*274*
670 STATE FAIR BLVD	*670 STATE FAIR BLVD*	*ENE 1 - 2 (1.308 mi.)*	*O72*	*281*
ABANDONED DRUMS	*SOLVAY FAIRGROUNDS EXIT*	*ENE 1 - 2 (1.346 mi.)*	*79*	*301*

Other Ascertainable Records

RCRA-NonGen: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 02/17/2010 has revealed that there are 16 RCRA-NonGen sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYSDOT BIN 1093349	*RTE 695 OVER GERELOCK R*	*E 1/2 - 1 (0.781 mi.)*	*D12*	*68*
NYSDOT BRIDGE BIN 1039280	*RTE 174 OVER NINE MILE*	*W 1 - 2 (1.154 mi.)*	*J40*	*189*
TONY ROTELLAS BODY SHOP INC.	*521 HORAN RD*	*SE 1 - 2 (1.248 mi.)*	*M63*	*240*
ONONDAGA COUNTY OF DEPT DRAINA	*STATE FAIR BLVD & RTE 5*	*NNE 1 - 2 (1.265 mi.)*	*L68*	*271*
NYSDOT BIN 1093480	*STATE RTE 173 OVER STAT*	*SSE 1 - 2 (1.310 mi.)*	*75*	*291*
NMPC GERESLOCK SUBSTATION	*HORAN RD - 0.6 MI N OF*	*SE 1 - 2 (1.328 mi.)*	*R78*	*299*
NYSDOT BRIDGE BIN 1093421	*RTE 5 WB OVER RTE 297 &*	*SE 1 - 2 (1.354 mi.)*	*R88*	*333*
NYSDOT BRIDGE BIN 1093422	*RTE 5 EB OVER RTE 297 &*	*SE 1 - 2 (1.354 mi.)*	*R89*	*335*
STANTON FOUNDRY	*3004 MILTON AVE*	*SE 1 - 2 (1.359 mi.)*	*T92*	*342*
FRAZER & JONES	*3000 MILTON AVE*	*SE 1 - 2 (1.360 mi.)*	*T100*	*412*
NYSDOT BRIDGE BIN 1093479	*RTE 5 OVER HINSDALE RD*	*SW 1 - 2 (1.363 mi.)*	*U105*	*433*

Lower Elevation	Address	Direction / Distance	Map ID	Page
WPS SYRACUSE GENERATION LLC	*300 BELLE ISLE ROAD*	*ESE 1 - 2 (1.146 mi.)*	*I36*	*181*
VAL'S MOTORS	*743 STATE FAIR BLVD*	*NE 1 - 2 (1.200 mi.)*	*45*	*196*
NYSDOT BIN 1093320	*695N OVER RTE 931B & CO*	*E 1 - 2 (1.229 mi.)*	*46*	*198*
LUBER INC	*690 STATE FAIR BLVD*	*NE 1 - 2 (1.259 mi.)*	*N65*	*251*
NYS FAIRGROUNDS SLF	*STATE FAIR BLVD*	*E 1 - 2 (1.360 mi.)*	*104*	*430*

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 06/01/2010 has revealed that there is 1 ROD site within approximately 2.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONONDAGA LAKE SEDIMENTS	*ONONDAGA LAKE*	*ENE 1/2 - 1 (0.783 mi.)*	*0*	*12*

EXECUTIVE SUMMARY

TSCA: The Toxic Substances Control Act identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site. The United States Environmental Protection Agency has no current plan to update and/or re-issue this database.

A review of the TSCA list, as provided by EDR, and dated 12/31/2006 has revealed that there is 1 TSCA site within approximately 1.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KAMINE/BESICORP SYRACUSE COGEN	300 BELLE ISLE RD	ESE 1 - 2 (1.146 mi.)	I37	185

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 04/14/2010 has revealed that there are 14 FINDS sites within approximately 1.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONONDAGA LAKE SEDIMENTS	***ONONDAGA LAKE***	***ENE 1/2 - 1 (0.783 mi.)***	***0***	***12***
BELLE ISLE C & D LANDFILL SITE	6051 BELLE ISLE ROAD	S 1/2 - 1 (0.659 mi.)	C6	54
NYSDOT BIN 1093349	***RTE 695 OVER GERELOCK R***	***E 1/2 - 1 (0.781 mi.)***	***D12***	***68***
NYSDOT BRIDGE BIN 1039280	***RTE 174 OVER NINE MILE***	***W 1 - 2 (1.154 mi.)***	***J40***	***189***
FRED SPICER PROPERTY	515 HORAN ROAD	SE 1 - 2 (1.238 mi.)	M59	236
ONONDAGA CO GREENFIELD VILLAGE	BRIARHURST LN	WSW 1 - 2 (1.242 mi.)	60	237
SLAVIC FULL GOSPEL CHURCH	519 HORAN RD	SE 1 - 2 (1.244 mi.)	M61	237
TONY ROTELLAS BODY SHOP INC.	***521 HORAN RD***	***SE 1 - 2 (1.248 mi.)***	***M63***	***240***

Lower Elevation	Address	Direction / Distance	Map ID	Page
WPS SYRACUSE GENERATION LLC	***300 BELLE ISLE ROAD***	***ESE 1 - 2 (1.146 mi.)***	***I36***	***181***
VALERINO PROPERTY	730 STATE FAIR BOULEVAR	NE 1 - 2 (1.188 mi.)	K42	193
DESTEFANO PROPERTY	740 STATE FAIR BLVD	NE 1 - 2 (1.192 mi.)	K44	196
VAL'S MOTORS	***743 STATE FAIR BLVD***	***NE 1 - 2 (1.200 mi.)***	***45***	***196***
NYSDOT BIN 1093320	***695N OVER RTE 931B & CO***	***E 1 - 2 (1.229 mi.)***	***46***	***198***
VAL'S MOTORS, INC.	***756 STATE FAIR BLVD***	***NNE 1 - 2 (1.236 mi.)***	***L53***	***211***

HSWDS: The List includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity The latest version of the study is frozen in time. The sites on the study will not automatically be made superfund sites, rather each site will be further evaluated for listing in the registry. So overtime they will be added to the registry or not.

A review of the HSWDS list, as provided by EDR, and dated 01/01/2003 has revealed that there are 4

HSWDS sites within approximately 1.75 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRAZER AND JONES CO.	3000 MILTON AVE	SE 1 - 2 (1.360 mi.)	T103	429
TEK DRY CLEANERS	852 STATE FAIR BLVD	NNE 1 - 2 (1.500 mi.)	X119	509
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
VAL'S DODGE	756 STATE FAIR BLVD	NNE 1 - 2 (1.236 mi.)	L54	224
VAL'S DODGE (2)	756 STATE FAIR BLVD	NNE 1 - 2 (1.236 mi.)	L56	230

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 10/28/2010 has revealed that there are 14 MANIFEST sites within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYSDOT BRIDGE BIN 1039280	***RTE 174 OVER NINE MILE***	***W 1 - 2 (1.154 mi.)***	***J40***	***189***
TONY ROTELLAS BODY SHOP INC.	***521 HORAN RD***	***SE 1 - 2 (1.248 mi.)***	***M63***	***240***
ONONDAGA COUNTY OF DEPT DRAINA	***STATE FAIR BLVD & RTE 5***	***NNE 1 - 2 (1.265 mi.)***	***L68***	***271***
NYSDOT BIN 1093480	***STATE RTE 173 OVER STAT***	***SSE 1 - 2 (1.310 mi.)***	***75***	***291***
NYSDOT BRIDGE BIN 1093422	***RTE 5 EB OVER RTE 297 &***	***SE 1 - 2 (1.354 mi.)***	***R89***	***335***
STANTON FOUNDRY	***3004 MILTON AVE***	***SE 1 - 2 (1.359 mi.)***	***T92***	***342***
LCP CHEMICAL /NY INC	***MATHEWS AVE***	***SE 1 - 2 (1.359 mi.)***	***T97***	***367***
FRAZER & JONES	***3000 MILTON AVE***	***SE 1 - 2 (1.360 mi.)***	***T100***	***412***
NYSDOT BRIDGE BIN 1093479	***RTE 5 OVER HINSDALE RD***	***SW 1 - 2 (1.363 mi.)***	***U105***	***433***
KINANE CO	***2925 MILTON AVE***	***ESE 1 - 2 (1.382 mi.)***	***V107***	***437***
NORTHSIDE COLLISION	509 HINSDALE RD	SW 1 - 2 (1.415 mi.)	U113	469
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
VAL'S MOTORS, INC.	***756 STATE FAIR BLVD***	***NNE 1 - 2 (1.236 mi.)***	***L53***	***211***
LUBER INC	***690 STATE FAIR BLVD***	***NE 1 - 2 (1.259 mi.)***	***N65***	***251***
NYS FAIRGROUNDS SLF	***STATE FAIR BLVD***	***E 1 - 2 (1.360 mi.)***	***104***	***430***

DRYCLEANERS: A listing of all registered drycleaning facilities.

A review of the DRYCLEANERS list, as provided by EDR, and dated 11/19/2010 has revealed that there is 1 DRYCLEANERS site within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALLIED INDUSTRIAL LAUNDRIES	537 HORAN RD	SE 1 - 2 (1.267 mi.)	M69	273

NPDES: New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

A review of the NPDES list, as provided by EDR, and dated 11/16/2010 has revealed that there is 1

NPDES site within approximately 1.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WPS SYRACUSE GENERATION	300 BELLE ISLE ROAD	ESE 1 - 2 (1.146 mi.)	I38	185

AIRS:

A review of the AIRS list, as provided by EDR, and dated 12/31/2009 has revealed that there is 1 AIRS site within approximately 1.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WPS SYRACUSE GENERATION LLC	300 BELLE ISLE ROAD	ESE 1 - 2 (1.146 mi.)	I34	129

FINANCIAL ASSURANCE: Financial assurance information.

A review of the FINANCIAL ASSURANCE list, as provided by EDR, and dated 10/12/2010 has revealed that there is 1 FINANCIAL ASSURANCE site within approximately 1.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HONEYWELL/CAMILLUS BED #15 C&D	***6051 BELLE ISLE RD.***	***S 1/2 - 1 (0.660 mi.)***	***C8***	***55***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
NYSDOT	FINDS,MANIFEST,RCRA-NLR
NYSDEC	MANIFEST
OLD LEY CREEK CHANNEL SITE	HWS
CRUCIBLE INC /LAKE PUMP STATION	CERCLIS-NFRAP
STATE FAIR LANDFILL	CERCLIS-NFRAP
NYSDOT BIN 1093459	RCRA-LQG
NYSDOT BIN 1049610	RCRA-LQG
ONONDAGA CO STATE FAIR BRG	FINDS,RCRA-NLR
NYSDOT BIN 1093389	FINDS,RCRA-NLR
ALLIED SIGNAL INC WASTEBEDS 12-15	FINDS
SOUTH SIDE OF SHOULDER RTE 20	SPILLS
SKANEATELES LAKE	SPILLS
I/F/O 1380 RTE 11	SPILLS
COSTAL SERVICE STA	SPILLS
COUNTRY VIEW TERRACE APTS	SPILLS
TO ROADWAY	SPILLS
RT. 81 & PEARL ST. ACCI.	SPILLS,HIST SPILLS
SOUTHERN COATING ACCIDENT	SPILLS,HIST SPILLS
RED TANK TRUCK	SPILLS,HIST SPILLS
CARRIER CORP	SPILLS

OVERVIEW MAP - 02963764.2r



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Wastebeds 9 Through 15	CLIENT: O Brien & Gere Engineers, Inc.
ADDRESS: Gerelock Rd	CONTACT: Michael Miller
Syracuse NY 13209	INQUIRY #: 02963764.2r
LAT/LONG: 43.0710 / 76.2496	DATE: January 10, 2011 4:51 pm

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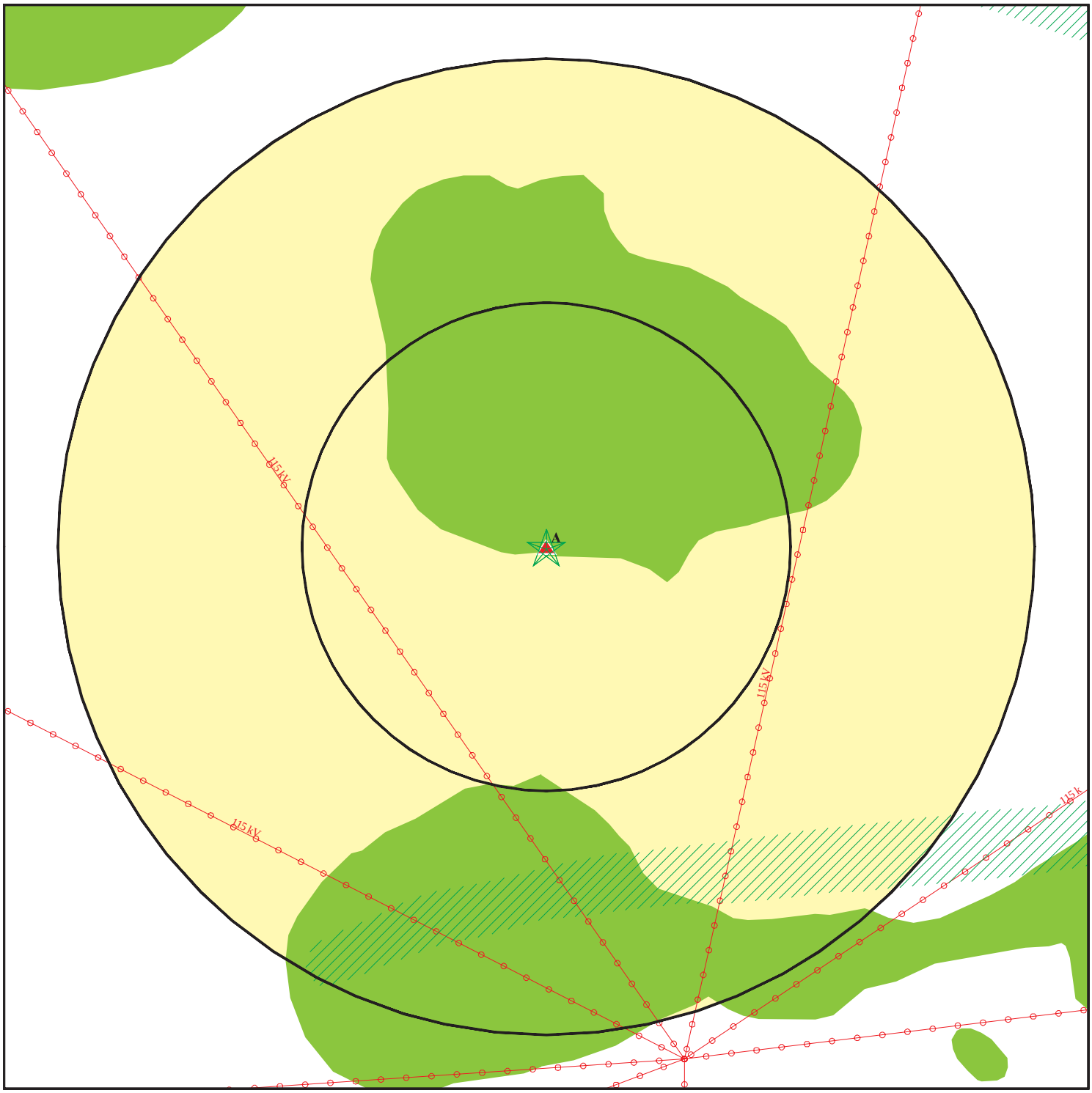
DETAIL MAP - 02963764.2r



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

0 1/16 1/8 1/4 Miles

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Wastebeds 9 Through 15	CLIENT: O Brien & Gere Engineers, Inc.
ADDRESS: Gerelock Rd	CONTACT: Michael Miller
Syracuse NY 13209	INQUIRY #: 02963764.2r
LAT/LONG: 43.0710 / 76.2496	DATE: January 10, 2011 4:52 pm

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		2.250	0	0	0	1	0	1
Proposed NPL		2.250	0	0	0	0	0	0
NPL LIENS		1.250	0	0	0	0	0	0
Federal Delisted NPL site list								
Delisted NPL		2.250	0	0	0	0	0	0
Federal CERCLIS list								
CERCLIS		1.750	0	0	0	1	0	1
FEDERAL FACILITY		2.250	0	0	0	0	0	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		1.750	0	0	0	0	3	3
Federal RCRA CORRACTS facilities list								
CORRACTS		2.250	0	0	0	0	4	4
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		1.750	0	0	0	0	0	0
Federal RCRA generators list								
RCRA-LQG		1.500	0	0	0	0	1	1
RCRA-SQG		1.500	0	0	0	0	1	1
RCRA-CESQG		1.500	0	0	0	0	2	2
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		1.750	0	0	0	1	0	1
US INST CONTROL		1.750	0	0	0	1	0	1
Federal ERNS list								
ERNS		1.250	0	0	0	0	0	0
State- and tribal - equivalent CERCLIS								
SHWS		2.250	0	0	0	0	4	4
VAPOR REOPENED		1.250	0	0	0	0	0	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		1.750	0	0	0	3	8	11
State and tribal leaking storage tank lists								
LTANKS		1.750	0	0	0	4	22	26
HIST LTANKS		1.750	0	0	0	4	19	23
INDIAN LUST		1.750	0	0	0	0	0	0
State and tribal registered storage tank lists								
UST		1.500	0	0	0	1	13	14

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CBS UST		1.500	0	0	0	0	0	0
MOSF UST		1.750	0	0	0	0	0	0
AST		1.500	0	0	0	2	5	7
CBS AST		1.500	0	0	0	0	2	2
MOSF AST		1.750	0	0	0	0	0	0
CBS		1.500	0	0	0	1	2	3
MOSF		1.750	0	0	0	0	0	0
INDIAN UST		1.500	0	0	0	0	0	0
FEMA UST		1.500	0	0	0	0	0	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS		1.750	0	0	0	0	1	1
INST CONTROL		1.750	0	0	0	0	1	1
RES DECL		1.430	0	0	0	0	0	0
State and tribal voluntary cleanup sites								
VCP		1.750	0	0	0	0	0	0
INDIAN VCP		1.750	0	0	0	0	0	0
State and tribal Brownfields sites								
ERP		0.750	0	0	0	0	NR	0
BROWNFIELDS		1.750	0	0	0	0	3	3
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		1.750	0	0	0	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI		1.750	0	0	0	0	0	0
DEBRIS REGION 9		1.750	0	0	0	0	0	0
SWTIRE		1.750	0	0	0	0	0	0
SWRCY		1.750	0	0	0	0	0	0
INDIAN ODI		1.750	0	0	0	0	0	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		1.250	0	0	0	0	0	0
DEL SHWS		2.250	0	0	0	0	0	0
US HIST CDL		1.250	0	0	0	0	0	0
Local Lists of Registered Storage Tanks								
HIST UST		1.500	0	0	0	1	14	15
HIST AST		1.250	0	0	0	1	1	2
Local Land Records								
LIENS 2		1.250	0	0	0	0	0	0
LUCIS		1.750	0	0	0	0	0	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS		1.250	0	0	0	0	0	0
NY Spills	X	1.375	0	0	0	8	38	46
NY Hist Spills	X	1.375	0	0	0	4	26	30
Other Ascertainable Records								
RCRA-NonGen		1.500	0	0	0	1	15	16
DOT OPS		1.250	0	0	0	0	0	0
DOD		2.250	0	0	0	0	0	0
FUDS		2.250	0	0	0	0	0	0
CONSENT		2.250	0	0	0	0	0	0
ROD		2.250	0	0	0	1	0	1
UMTRA		1.750	0	0	0	0	0	0
MINES		1.500	0	0	0	0	0	0
TRIS		1.250	0	0	0	0	0	0
TSCA		1.250	0	0	0	0	1	1
FTTS		1.250	0	0	0	0	0	0
HIST FTTS		1.250	0	0	0	0	0	0
SSTS		1.250	0	0	0	0	0	0
ICIS		1.250	0	0	0	0	0	0
PADS		1.250	0	0	0	0	0	0
MLTS		1.250	0	0	0	0	0	0
RADINFO		1.250	0	0	0	0	0	0
FINDS		1.250	0	0	0	3	11	14
RAATS		1.250	0	0	0	0	0	0
HSWDS		1.750	0	0	0	0	4	4
MANIFEST		1.500	0	0	0	0	14	14
DRYCLEANERS		1.500	0	0	0	0	1	1
NPDES		1.250	0	0	0	0	1	1
AIRS		1.250	0	0	0	0	1	1
E DESIGNATION		1.375	0	0	0	0	0	0
INDIAN RESERV		2.250	0	0	0	0	0	0
SCRD DRYCLEANERS		1.750	0	0	0	0	0	0
COAL ASH EPA		1.750	0	0	0	0	0	0
PCB TRANSFORMER		1.250	0	0	0	0	0	0
COAL ASH DOE		1.250	0	0	0	0	0	0
FINANCIAL ASSURANCE		1.250	0	0	0	1	0	1
COAL ASH		1.750	0	0	0	0	0	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		2.250	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target Property **GERELOCK RD**
SOLVAY, NY

NY Spills **S104644156**
NY Hist Spills **N/A**

Site 1 of 2 in cluster A

Actual:
399 ft.

NY Spills:

Site ID:	96010
Facility Addr2:	Not reported
Facility ID:	9510895
Spill Number:	9510895
Facility Type:	ER
SWIS:	3400
Investigator:	BFMATTHE
Referred To:	Not reported
Spill Date:	11/29/1995
Reported to Dept:	11/29/1995
CID:	365
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	3/21/2001
Remediation Phase:	0
Date Entered In Computer:	11/29/1995
Spill Record Last Update:	3/22/2001
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	DAVE HILTBRAMB
Contact Phone:	(315) 487-4700
DEC Region:	7
DER Facility ID:	85851
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "BM" ACID NUETRALIZED BY OPTECT. NO FURTHER ACTION REQ'D
Remarks:	SITE GLASS BROKE CAUSING SPILL / BEING NEUTRILIZED NOW

Material:

Site ID:	96010
Operable Unit ID:	1025275
Operable Unit:	01
Material ID:	358251
Material Code:	0029C
Material Name:	HYDROGEN CHLORIDE
Case No.:	07647010
Material FA:	Hazardous Material
Quantity:	5000
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

(Continued) **S104644156**

Tank Test:
- Site ID: Not reported
- Spill Tank Test: Not reported
- Tank Number: Not reported
- Tank Size: Not reported
- Test Method: Not reported
- Leak Rate: Not reported
- Gross Fail: Not reported
- Modified By: Not reported
- Last Modified: Not reported
- Test Method: Not reported

NY Hist Spills:
- Region of Spill: 7
- Spill Number: 9510895
- Investigator: BM
- Caller Name: Not reported
- Caller Agency: Not reported
- Caller Phone: Not reported
- Notifier Name: Not reported
- Notifier Agency: Not reported
- Notifier Phone: Not reported
- Spill Date/Time: 11/29/1995 14:20
- Reported to Dept Date/Time: 11/29/95 16:00
- SWIS: 31
- Spiller Name: Not reported
- Spiller Contact: Not reported
- Spiller Phone: Not reported
- Spiller Contact: DAVE HILTBRAMB
- Spiller Phone: (315) 487-4700
- Spiller Address: Not reported
- Spiller City,St,Zip: Not reported
- Spill Cause: Equipment Failure
- Reported to Dept: On Land
- Water Affected: Not reported
- Spill Source: 01
- Spill Notifier: Responsible Party
- PBS Number: Not reported
- Cleanup Ceased: / /
- Cleanup Meets Std: True
- Last Inspection: / /
- Recommended Penalty: Penalty Not Recommended
- Spiller Cleanup Dt: / /
- Enforcement Date: / /
- Invstgn Complete: / /
- UST Involvement: False
- Spill Class: Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
- Spill Closed Dt: 03/21/01
- Corrective Action Plan Submitted: / /
- Date Region Sent Summary to Central Office: / /
- Date Spill Entered In Computer Data File: 11/29/95
- Date Spill Entered In Computer Data File: Not reported
- Update Date: 03/22/01
- Is Updated: False

(Continued) **S104644156**

Tank:
- PBS Number: Not reported
- Tank Number: Not reported
- Tank Size: Not reported
- Test Method: Not reported
- Leak Rate Failed Tank: Not reported
- Gross Leak Rate: Not reported

Material:
- Material Class Type: Nonpetroleum/Nonhazardous
- Quantity Spilled: 5000
- Unkonwn Quantity Spilled: False
- Units: Gallons
- Quantity Recovered: 0
- Unkonwn Quantity Recovered: True
- Material: HYDROGEN CHLORIDE
- Class Type: HYDROGEN CHLORIDE
- Times Material Entry In File: 235
- CAS Number: 07647010
- Last Date: 19941111
- Material: MURIATIC ACID
- Class Type: MURIATIC ACID
- Times Material Entry In File: 0
- CAS Number: 07647010
- Last Date: Not reported
- Material: HYDROCHLORIC ACID
- Class Type: HYDROCHLORIC ACID
- Times Material Entry In File: 240
- CAS Number: 07647010
- Last Date: 19940802
- DEC Remarks: ACID NUETRALIZED BY OPTECT. NO FURTHER ACTION REQ D
- Remark: SITE GLASS BROKE CAUSING SPILL / BEING NEUTRILIZED NOW

A2 **ALLIED SIGNAL PROPERTY** **NY Spills** **S103937993**
Target **GERELOCK RD** **NY Hist Spills** **N/A**
Property **SOLVAY, NY**

Site 2 of 2 in cluster A

Actual:
399 ft.

NY Spills:
- Site ID: 96011
- Facility Addr2: Not reported
- Facility ID: 9902533
- Spill Number: 9902533
- Facility Type: ER
- SWIS: 3400
- Investigator: CFMANNES
- Referred To: Not reported
- Spill Date: 6/4/1999
- Reported to Dept: 6/4/1999
- CID: 388
- Spill Cause: Equipment Failure
- Water Affected: Not reported
- Spill Source: Commercial/Industrial
- Spill Notifier: Responsible Party
- Cleanup Ceased: Not reported
- Cleanup Meets Std: False
- Last Inspection: Not reported

ALLIED SIGNAL PROPERTY (Continued) **S103937993**

Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	6/4/1999
Remediation Phase:	0
Date Entered In Computer:	6/4/1999
Spill Record Last Update:	6/29/1999
Spiller Name:	ANNE TRIPP
Spiller Company:	PAGE TRANSPORTATION
Spiller Address:	2758 TROMBLY RD
Spiller City,St,Zip:	WEEDSPORT, NY
Spiller Company:	001
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	85851
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks:	CALLER REPORTS SPILL HAS BEEN CLEANED UP.

Material:

Site ID:	96011
Operable Unit ID:	1081453
Operable Unit:	01
Material ID:	306040
Material Code:	0010
Material Name:	Hydraulic Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	4
Units:	Gallons
Recovered:	4
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	9902533
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported

ALLIED SIGNAL PROPERTY (Continued) **S103937993**

Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 06/04/1999 12:09
Reported to Dept Date/Time: 06/04/99 13:15
SWIS: 31
Spiller Name: PAGE TRANSPORTATION
Spiller Contact: ANNE TRIPP
Spiller Phone: (315) 834-6681
Spiller Contact: CALLER
Spiller Phone: ( ) -
Spiller Address: 2758 TROMBLY RD
Spiller City,St,Zip: WEEDSPORT, NY
Spill Cause: Equipment Failure
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt: 06/04/99
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 06/04/99
Date Spill Entered In Computer Data File: Not reported
Update Date: 06/29/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 4
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 4
Unkonwn Quantity Recovered: False
Material: HYDRAULIC OIL
Class Type: HYDRAULIC OIL
Times Material Entry In File: 1846
CAS Number: Not reported
Last Date: 19940728

ALLIED SIGNAL PROPERTY (Continued) **S103937993**

DEC Remarks: Not reported
Remark: CALLER REPORTS SPILL HAS BEEN CLEANED UP.

NPL **ONONDAGA LAKE SEDIMENTS** **NPL** **1000481580**
Region **ONONDAGA LAKE** **CERCLIS** **NYD986913580**
ENE **SYRACUSE, NY 13209** **US ENG CONTROLS**
1/2-1 **US INST CONTROL**
4135 ft. **Additional polygons located at: East 10940 ft.; ESE 7243 ft.** **ROD**
FINDS
NY Spills
NY Hist Spills

NPL:
EPA ID: NYD986913580
EPA Region: 02
Federal: N
Final Date: 1994-12-16 00:00:00

Site Details:
Site Name: ONONDAGA LAKE
Site Status: Final
Site Zip: 13209
Site City: SYRACUSE
Site State: NY
Federal Site: No
Site County: ONONDAGA
EPA Region: 02
Date Proposed: 05/10/93
Date Deleted: Not reported
Date Finalized: 12/16/94

Substance Details:
NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: A038
Substance: NICKEL AND COMPOUNDS
CAS #: Not reported
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C013
Substance: ANTHRACENE
CAS #: 120-12-7
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C178
Substance: COPPER AND COMPOUNDS
CAS #: Not reported

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C247
Substance: ZINC AND COMPOUNDS
CAS #: Not reported
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C332
Substance: PHENANTHRENE
CAS #: 85-01-8
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C431
Substance: FLUORENE
CAS #: 86-73-7
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C460
Substance: MERCURY
CAS #: 7439-97-6
Pathway: SURFACE WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: D004
Substance: ARSENIC
CAS #: 7440-38-2
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: D006
Substance: CADMIUM (CD)
CAS #: 7440-43-9
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: D007
Substance: CHROMIUM
CAS #: 7440-47-3
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: D008
Substance: LEAD (PB)
CAS #: 7439-92-1
Pathway: NO PATHWAY INDICATED

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U013
Substance: ASBESTOS
CAS #: 1332-21-4
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U019
Substance: BENZENE
CAS #: 71-43-2
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U052
Substance: CRESOLS
CAS #: 1319-77-3
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U165
Substance: NAPHTHALENE
CAS #: 91-20-3
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U196
Substance: PYRIDINE
CAS #: 110-86-1
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U220
Substance: TOLUENE
CAS #: 108-88-3
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U239
Substance: XYLENE
CAS #: 1330-20-7
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: Z009
Substance: ISOPROPYLBENZENE
CAS #: 98-82-8
Pathway: NO PATHWAY INDICATED
Scoring: 1

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Summary Details:

Conditions at Proposal May 10, 1993): The Onondaga Lake site is located in the City of Syracuse and in the Towns of Salina, Geddes, and Camillus, Onondaga County, New York. Onondaga Lake is approximately 4.5 miles long and averages 1 mile in width. Seven major tributaries flow into the lake; water exits the lake via a barge canal at its northwest end and flows into the Seneca River. The land immediately adjacent to the lake consists primarily of industrial properties and county parks.The site is composed of the lake itself, its tributaries and the upland ha ardous waste sites which have contributed or are contributing contamination to the lake sub-sites). A ban was placed on public fishing from the lake in 1970 due to high concentrations of mercury in several species of fish. The lake was re-opened to fishing in 1986 on a catch and release basis only. Population and industrial growth in the areas surrounding Onondaga Lake has resulted in extensive biological, chemical, and physical degradation of its waters. In addition to mercury contamination in the lake, analyses of sediment samples detected barium, cadmium, chromium, cobalt, lead, ben ene, chloroben ene, total xylenes, various polycyclic aromatic hydrocarbons, pesticides, and PCBs. Historical information indicates that the lake received surface water discharges from various industrial processes and municipal waste water treatment plants. Initially, the Environmental Protection Agency EPA)has evaluated only operations of Allied Signal, Inc. AS) and/or its predecessors, and Linden Chemicals and Plastics, Inc. LCP), now owned by the Hanlin Group. EPA is attempting to identify additional potentially responsible parties. The ASfacilities manufactured numerous organic and inorganic chemicals. AS s Willis Avenue plant and LCP s Bridge Street plant located west of the Main Plant complex), used a mercury cell process to produce chlorine, sodium hydroxide, and potassium hydroxide. Each plant discharged aqueous waste streams containing mercury as part of normal operations. Other waste sources include AS s Solvay Waste Beds containing by-products generated from soda ash production and Semet Residue Ponds containing wastes generated from acid washing of light oil. Several consent orders have been signed in recent years between AS and the New York State Department of Environmental Conservation NYSDEC) related to the Solvay Waste Beds, the Semet Residue Pondsand ground-water contamination at the location of the Willis Avenue Plant. In early 1992, AS and the NYSDEC signed a consent decree to perform a Remedial Investigation/Feasibility Study RI/FS) to determine the type and extent of contamination at Onondaga Lake and to identify alternatives for remedial action. NYSDEC has also filed an action against the Hanlin Group under Subtitle C of the Resource Conservation and Recovery Act RCRA). The Hanlin Group commenced bankruptcy proceedings onJuly 10, 1991. Status December 1994): Presently, AS is performing the Onondaga Lake RI/FS and RI/FSs for the Solvay Waste Beds, Semet Residue Ponds, and Willis Avenue Plant. EPA has entered into a cooperative agreement with NYSDEC to provide funds so that NYSDEC can coordinate, manage, and oversee the ongoing work at the subsites and prepare a comprehensive RI/FS for the Onondaga Lake NPL site. NYSDEC, together with EPA, has started mailing information request letters to companies located in the Onondaga Lake watershed in an attempt to identify other potentially responsible parties. The description of the site release) is based on information available at the time the site was scored. The description may change as additional information is gathered on the sources and extent of contamination. See 56 FR 5600, February 11, 1991, or subsequent FR notices.)

Site Status Details:

NPL Status:	Final
Proposed Date:	05/10/1993
Final Date:	12/16/1994

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Deleted Date: Not reported

Narratives Details:
NPL Name: ONONDAGA LAKE
City: SYRACUSE
State: NY

CERCLIS:
Site ID: 0203382
Federal Facility: Not a Federal Facility
NPL Status: Currently on the Final NPL
Non NPL Status: Not reported

CERCLIS Site Contact Name(s):
Contact Name: PATRICIA PIERRE
Contact Tel: (212) 637-3865
Contact Title: Remedial Project Manager (RPM)

Contact Name: MARK GRANGER
Contact Tel: (212) 637-3351
Contact Title: Remedial Project Manager (RPM)

Contact Name: ROBERT NUNES
Contact Tel: (212) 637-4254
Contact Title: Remedial Project Manager (RPM)

CERCLIS Site Alias Name(s):
Alias Name: CRUCIBLE INC/BEHIND VAL'S DODGE (NYD980530075)
Alias Address: Not reported
NY
Alias Name: CRUCIBLE INC/DORING PROPERTY (NYD980530067)
Alias Address: Not reported
NY
Alias Name: ONONDAGA LAKE
Alias Address: ONONDAGA LAKE
SYRACUSE, NY 13209
Alias Name: ONONDAGA LAKE
Alias Address: Not reported
SYRACUSE, NY 13209

Site Description: In 1994, Onondaga Lake, its tributaries and the upland hazardous substance sites which were found to be releasing or threatening to release contamination to the Lake was added to the EPA's Superfund National Priorities List (NPL). The Semet Residue Ponds Site1 is contributing such contamination and, therefore, is considered a "Sub-Site" of the Onondaga Lake NPL site. The Semet Residue Ponds/Onondaga Lake (the Site) is approximately 40 acres, located in the Village of Solvay Onondaga County, New York, and is situated in an industrial area approximately 400 feet from the southern shore of Onondaga Lake. The Site is bordered on the west and south by materials manufacturing company, on the south by railroad tracks and an industrial complex, on the north by Interstate Route 690, and on the east by the former Willis Avenue Facility. The Site also includes a 12-acre brushy cleared area also known as the "Brushy Cleared Area". The property is presently zoned industrial. The current land use in the immediate vicinity of the Site is industrial. Based on a number of factors, including the reported history of land use in the area of

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

the Site since the early 1900's, the existing zoning for the Site property, and subsequent communications between the New York State Department of Environmental Conservation (NYSDEC) and the Zoning Board Chairman for the Village of Solvay, NYSDEC determined that the reasonably-anticipated future use for the Site is industrial. Currently, the on-Site aquifers are not used for drinking water. Residents located in the vicinity of the Site use the public water supply provided by Onondaga County. Groundwater near the Site will not be used as a source of potable water under future-use scenarios. The Site, which is enclosed by a 6-foot high fence that was installed in 1979 to limit access, includes a triangular-shaped area that has five irregularly-shaped ponds used from 1917 to 1970 as depositories for waste material and two small areas bordering the southern and western portions of the Site that were built to contain leakage from the ponds. The Ponds cover approximately 11 acres, have an estimated average depth of 20 feet estimated to range from 10 to 40 feet, and are estimated to contain approximately 80 million gallons of waste material, including a separate aqueous phase. Based on monitoring well data there is a plume of contaminated groundwater that originates at the Site and migrates toward Onondaga Lake and Tributary 5A. Tributary 5A is a small drainage way which flows south of the Site near the railroad tracks, then flows north to Onondaga Lake on the western side of the Site. Tributary 5A is being evaluated as part of the Remedial Investigation/Feasibility Study (RI/FS) for the former Willis Avenue Facility, which is also a Sub-Site of the Onondaga Lake NPL site. Impacts within Onondaga Lake from the Semet Residue Ponds will be addressed in the ongoing Onondaga Lake Bottom RI/FS. From 1917 to 1970 Semet Residue Ponds were used as depositories for a tarry organic-based residue generated by the acid washing of coke light oil during the production of benzene, toluene, naphthalene, xylene, and "motor benzol" at its BTX (Benzol) Plant located immediately south of the above-noted railroad tracks. Prior to that time, the area was used as a settling basin for disposal of Solvay Waste, a grayish-white colored material consisting largely of calcium carbonate that was a waste by-product from the production of soda ash. This settling basin is known as Solvay Waste Bed A. The ponds were constructed via drag line and bulldozer excavation into Waste Bed A. The dikes bordering the ponds were reportedly built from fill materials including concrete rubble, old electrolytic cell parts, ashes, cinders, soil, Solvay Waste, bricks, stone, etc. Two small containment areas to the south and west of the Site were built to contain leakage from the ponds. In addition to the Solvay Waste material, the area received coarse ash and cinders via conveyer buckets from near by stoker-fired boilers. A calcium carbonate-rich waste material, which originated from a former ammonium chloride operation, was also disposed of adjacent to Pond 2 prior to 1951. The surfaces of the ponds are approximately four inches thick and appear as a weathered black to brown granular material. Below the granular material is a highly viscous, black material which resembles tar. A Consent Order for an RI/FS for the Site was signed by Potentially Responsible Party (PRP) and the NYSDEC in 1989. Field work for the RI has been completed. Draft RI Reports were submitted in 1991 and 1992 and were reviewed by NYSDEC. The RI was approved by NYSDEC in August 1995. In June 1999, NYSDEC received the draft FS Report from the PRP. Addendums to the FS report and additional Site-related submittals that are included in the Administrative Record were received on January 3, 2000; July 26, 2000; August 1, 2000; and August 17, 2001. As an Interim Remedial Measure (IRM), a fly-ash/cement cover of a few inches thick was applied to the pond residues to control odors and reduce air emissions. This cover was applied over Ponds 3 and 4 in 1995 and over the remaining ponds in mid-1997, with the exception of one of the "containment" ponds in the southern portion of the Site that was inaccessible to the equipment used to apply the covers. Since that time, this cover material has been applied annually. While this cover has no significant strength or

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

weight-bearing capacity, it has been effective in reducing odors. A Record of Decision (ROD) was completed for operable unit 6 of the Onondaga Lake site March 28, 2002. On June 23, 1989, Onondaga Lake was added to the New York State Registry of Inactive Hazardous Waste disposal sites. On December 16, 1994, Onondaga Lake and areas upland that contribute or have contributed contamination to the lake system were added to the U.S. Environmental Protection Agency's (EPA's) National Priorities List (NPL). This NPL listing means that the lake system is among the nation's highest priorities for remedial evaluation and response under the federal Superfund law for sites where there has been a release of hazardous substances, pollutants, or contaminants. Onondaga Lake itself is a 4.6-square-mile (sq. mi) (12-square-kilometer [sq. km]), 3,000-acre lake, approximately 4.5 mi (7.2 km) long and 1 mi (1.6 km) wide, with an average water depth of 36 ft (11 m). The lake has two deep basins, a northern basin and a southern basin, that have maximum water depths of approximately 62 and 65 ft (19 and 20 m), respectively. The basins are separated by a saddle region at a water depth of approximately 56 ft (17 m). Most of the lake has a broad nearshore shelf in water depths of less than 12 ft (3.7 m). This nearshore shelf is bordered by a steep offshore slope in water depths of 12 to 24 ft (3.7 to 7.3 m). During the summer months, the upper water of Onondaga Lake warms to a greater degree than the deeper water. This causes the water in the lake to stratify (separate) into two layers of water: the epilimnion, which is the warmer, less dense upper layer and is about 30 ft (9 m) thick, and the hypolimnion, which is the colder, denser, bottom layer. During the summer, the hypolimnion becomes anoxic (runs out of oxygen), which has numerous implications for the lake's chemistry and biota (e.g., fish and insect life). The two largest tributaries to Onondaga Lake, namely Ninemile Creek and Onondaga Creek, contribute 30.4 and 31.4 percent, respectively, of the total water flow to the lake. Other tributaries, in a clockwise direction from the southeast section of the lake, include Ley Creek, Harbor Brook, the East Flume, Tributary 5A, Sawmill Creek, and Bloody Brook. In addition to the tributary streams, the treated effluent from the Onondaga County Metropolitan Wastewater Treatment Plant (Metro), located between Onondaga Creek and Harbor Brook, provides a significant portion (approximately 19 percent) of the water entering the lake. Various local entities have discharged wastewater directly to these tributary streams and/or have waste sites that have, or potentially have, impacted these tributaries and the lake itself. In general, the eastern shore of Onondaga Lake is urban and residential, and the northern shore is dominated by parkland, wooded areas, and wetlands. There are approximately 320 acres of state-regulated wetlands and numerous smaller wetlands directly connected to Onondaga Lake or within its floodplains. The northwest upland areas in Liverpool and Lakeland are mainly residential, with interspersed urban structures and several undeveloped areas. Much of the western and southern lakeshore is covered by wastebeds that received wastes generated from Honeywell's former Solvay operations and, to a lesser extent, dredge spoils from the lake. Many of these wastebeds have been abandoned and recolonized by vegetation. Urban centers and industrial zones in Syracuse and Solvay dominate the landscape surrounding the southern and eastern shores of Onondaga Lake from approximately the New York State Fairgrounds to Ley Creek. The area around Onondaga Lake is the most urban in central New York State. The region experienced significant growth in the twentieth century, and in 2000, Onondaga County was the tenth most populous county in the state. The city of Syracuse is located at the southern end of Onondaga Lake, and numerous towns, villages, and major roadways surround the lake. Onondaga Lake has been the recipient of industrial and municipal sewage discharges for over 100 years. Honeywell has been a major contributor; however, other industries in the area have contributed contamination as well. Other contaminant sources to the lake include the Metro facility, industrial

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

facilities and landfills along Ley Creek, the Crucible Materials Corporation (via Tributary 5A), and the former Oil City. Honeywell International, Inc., and its predecessor companies operated manufacturing facilities in Solvay, New York, from 1881 until 1986. When Honeywell merged with its predecessor companies on December 1, 1999, it became liable for the contamination those companies introduced into the environment. Honeywell, as a major contributor of contamination to the lake, has been named a potentially responsible party (PRP). In the late 1800s and early 1900s, Onondaga Lake supported a thriving resort industry based upon the recreational utilization of the lake, including swimming and recreational fishing. The lake also had a plentiful cold-water fishery, which supported a commercial fishing industry until the late 1800s. However, from the late 1800s to the present, Onondaga Lake has been a receptacle for both industrial and municipal wastes. Salt springs in the vicinity of Onondaga Lake supported a major salt recovery industry throughout the 1800s and were associated with the development of railroads and the Erie Canal in the region. This infrastructure supported the growth of additional industries, including former Honeywell operations, petroleum product storage (once known as "Oil City") adjacent to the southeastern shore of Onondaga Lake, fertilizer production, a steel foundry, a vehicle accessory manufacturing facility, pottery and china manufacturing, manufactured gas plants, and many other industries in the Syracuse area. An evolving municipal wastewater management system (initially with the development of a sewer system and later wastewater treatment facilities), now known as Metro, has been in existence since around 1896. Honeywell's manufacturing processes were based on four major product lines collectively known as the Syracuse Works. These processes resulted in releases of primarily mercury, organic contaminants, and calciterelated compounds, as described below: - Soda ash (sodium carbonate) and related products such as baking soda (sodium bicarbonate), sodium nitrite, sodium sesquicarbonate, ammonium bicarbonate, ammonium chloride, calcium chloride, and caustic soda (sodium hydroxide) were produced by a non-electrolytic cell process. The primary dissolved waste/contaminant associated with this process was ionic constituents (calcium, sodium, and chloride ions [Ca2+, Na+, and Cl-, respectively]), and the primary solid component was Solvay waste, which is a white, chalky, calcite-related material. - Benzene, toluene, xylene, naphthalene, and tar products from the recovery of coal distillation (coking) byproducts. The primary wastes/contaminants associated with this product line were benzene, toluene, ethylbenzene, and xylenes (BTEX), chlorinated benzenes, and polycyclic aromatic hydrocarbons (PAHs), especially naphthalene. - Chlorinated benzenes and byproduct hydrochloric acid from the chlorination of benzene. The primary wastes/contaminants associated with this product line were BTEX, chlorinated benzenes, and PAHs, especially naphthalene. - Chlor-alkali products, including chlorine, caustic potash (potassium hydroxide), caustic soda (sodium hydroxide) produced by an electrolytic cell process, and related products such as potassium carbonate, hydrogen gas, and hydrogen peroxide produced by further reacting chlor-alkali byproducts with other chemicals. The primary wastes/contaminants associated with this product line were mercury, polychlorinated biphenyls (PCBs), and polychlorinated dibenzo-pdioxin/polychlorinated dibenzofurans (PCDD/PCDFs). Soda ash production at the Main Plant relied on local supplies of sodium chloride brine and limestone. Benzene, toluene, xylene, and naphthalene production at the Main Plant were based on fractional distillation of light oil, a byproduct that was produced by the coke ovens at the Syracuse Works until 1924, after which it was shipped to Syracuse from other locations. Benzene produced at the Main Plant served as the raw material for production of chlorinated benzenes at the Willis Avenue Plant, while xylene and other imported chemicals were used to produce hydrogen peroxide at the Bridge Street Plant. Chlor-alkali production at

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

both the Willis Avenue Plant and the Bridge Street Plant used mercury cells and diaphragm cells. Both types of cells are used in electrolytic processes for the production of chlorine, sodium hydroxide, and potassium hydroxide from purified sodium chloride and potassium chloride brine. In addition to the four major product lines, Honeywell facilities produced coke and producer gas (i.e., a mixture of carbon monoxide, nitrogen, hydrogen, methane, carbon dioxide, and oxygen). Other products were produced for short periods of time as pilot plant or developmental laboratory activity or as start-up operations that were later relocated. These products included: - Nitric and picric acids. - Salicylic acid and methylsalicylate. - Benzyl chloride, benzoic acid, benzaldehyde, and phthalic anhydride. - Phenol. - Ammonia (via nitrogen fixation at the Bridge Street Plant). Although not generally considered part of the Syracuse Works, the Barrett Division of the Semet-Solvay Chemical Company (one of Honeywell's predecessor companies) operated a paving material production facility from 1919 to 1983 at a location that is now part of the Wastebed B/Harbor Brook subsite. This part of the Wastebed B/Harbor Brook subsite consists of several buildings, aboveground storage tanks, and a gravel parking lot. Waste was generated by most manufacturing processes at the Syracuse Works. Waste streams for disposal were discharged from the three plants to at least four different destinations: the Semet Residue Ponds (coke byproduct recovery only), Geddes Brook and Ninemile Creek (via the West Flume), the Solvay wastebeds, and directly to the lake (via the East Flume). The Solvay wastebeds are located in the towns of Camillus and Geddes, and in the city of Syracuse. From approximately 1881 to 1986, these wastebeds were the primary means of disposal for the wastes produced by the Solvay operations. Initial Solvay waste disposal practices consisted of filling lowlying land adjacent to Onondaga Lake. Later, unlined wastebeds designed specifically for Solvay waste disposal were built using containment dikes constructed of native soils, Solvay waste, and cinders, or by using bulkheads made with timber along the lakeshore. The Syracuse Works also had a landfill in the center of Solvay Wastebed 15. The discharge of Honeywell waste through the East Flume caused the formation of a large in-lake waste disposal (ILWD). The ILWD extends approximately 2,000 ft (610 m) into the lake, approximately 4,000 ft (1,219 m) along the lakeshore, and contains waste up to 45 ft (13.7 m) thick. The majority of the ILWD is within the boundaries of Sediment Management Unit (SMU) 1, although some of the ILWD extends into the adjoining SMUs 2 and 7. The ILWD contains waste from all of Honeywell's product lines. The discharges of waste to Geddes Brook and Ninemile Creek through the West Flume, as well as the overflow from Solvay Wastebeds 9 to 15, also caused the formation of deposits of Honeywell wastes and resulted in the development of the deposits in the Ninemile Creek delta in the lake in SMU 4. The seeps overflow from Solvay Wastebeds 1 to 8 contributed to the formation of Honeywell wastes in the lake itself. Two additional sites (the Mathews Avenue Landfill and the Willis Avenue Ballfield site) were used for disposal of industrial wastes and construction and demolition (C&D) debris from the Syracuse Works. A site known as the dredge spoils area located on the lakeshore northwest of the mouth of Ninemile Creek was used for disposal of dredged material from the Ninemile Creek delta and nearshore areas north of Ninemile Creek. In 1970, the Syracuse Works' Main Plant ceased production of benzene, toluene, xylenes, and naphthalene. In addition, releases of mercury from the Willis Avenue Plant and the Bridge Street Plant were reduced. In 1977, when the Willis Avenue Plant closed, the production of chlorinated benzenes and chlor-alkali products at the plant ceased. In 1979, the Bridge Street Plant was sold to Linden Chemicals and Plastics (LCP), which operated the plant until it closed in 1988. In 1986, the Main Plant ceased production of soda ash and related products, marking the end of manufacturing by Honeywell at the Syracuse Works. The State of New York, Onondaga County, and the City of Syracuse have jointly sponsored the preparation of a land-use master plan to guide future development of the

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Onondaga Lake area. The primary objective of land-use planning efforts is to enhance the quality of the lake and lakeshore for recreational and commercial uses. Anticipated recreational uses of the lake include fishing without consumption restrictions and swimming. The Onondaga Nation similarly asserts it seeks to safely make greater use of lake. In general, the eastern shore of Onondaga Lake is mainly urban and residential, and the northern shore is dominated by parkland, wooded areas, and wetlands. The northwest upland is primarily residential, with interspersed urban structures and several undeveloped areas. Solvay wastebeds cover much of the western lakeshore. Urban centers and industrial zones dominate the landscape surrounding the south end of Onondaga Lake from approximately the New York State Fairgrounds to Ley Creek. Land around the southwest corner and southern portion of the lake is generally industrial and has been significantly modified as part of long-term development of the Syracuse area. Land around much of the lake is recreational, providing hiking and biking trails, picnicking, sports, and other recreational activities. Approximately the northern two-thirds of Onondaga Lake is classified by the State of New York as Class B water (best usages defined as "primary and secondary contact recreation and fishing. These waters shall be suitable for fish propagation and survival" [6 NYCRR Part 701.7]). The southern third of Onondaga Lake and the area at the mouth of Ninemile Creek are classified as Class C water (best usage defined as "fishing. These waters shall be suitable for fish propagation and survival. The water quality shall be suitable for primary and secondary contact recreation, although other factors may limit the use for these purposes" [6 NYCRR Part 701. 8]). No permitted swimming beaches or sanctioned swimming areas exist at Onondaga Lake. Fishing occurs, but the New York State Department of Health (NYSDOH) has a specific, restrictive advisory for Onondaga Lake which warns against eating walleye (Stizostedion vitreum), with consumption of all other species limited to no more than once per month. The specific advisory also stipulates that infants, children under 15, and women of childbearing age should eat no fish from the lake. The more general, statewide advisory for the state's fresh waters advises that consumption be limited to no more than one meal per week. Onondaga Lake and the associated tributaries do not serve as potable-water sources. The shoreline of the lake (especially in the park) is used for water-related recreation such as fishing and boating. In 1990, more than one million people used Onondaga Lake County Park, located along the northern half of the lake. Operable Unit 2: For investigation and remediation purposes, the site has been divided into eight SMUs based on water depth, sources of water entering the lake, and physical, ecological, and chemical characteristics. The division of the site into SMUs allowed the development and evaluation of remedial alternatives appropriate to each area. The remedial alternatives evaluated for each SMU were then used in combination to develop comprehensive, lakewide remedial alternatives which would reduce site risks to humans and the environment. SMUs 1 through 7 are located in the littoral zone of the lake (i.e., water depths of 0 to 30 ft [0 to 9 m]), and SMU 8 covers the profundal zone (i.e., water depths of greater than 30 ft [9 m]). SMU 1 is located at the southern end of Onondaga Lake and encompasses the majority of the ILWD. The ILWD was formed primarily through the deposition of calcium carbonate and other wastes from the overflow of dikes around Wastebed B and through discharges via the East Flume. These discharges into the lake are believed to have included a combination of cooling water, sanitary waste, Solvay waste, mercury wastes, and organic chemical wastes, which settled out and formed a large delta that is at a higher elevation than surrounding areas of the lake bottom. This waste material is typically described as very soft to soft, although there are some harder crusts. This softness, along with geophysical evidence of historical failures (i.e., underwater slumping or "landslides" associated with the ILWD), causes concern as to whether the wastes

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

in their current configuration are sufficiently stable to prevent a portion of the ILWD from slumping in the future. SMU 1 is located directly offshore of Wastebed B, and the East Flume and Harbor Brook enter Onondaga Lake here. SMU 1 extends approximately 3,850 ft (1,170 m) west from the mouth of Harbor Brook, encompassing a surface area of approximately 84 acres. At its widest point, SMU 1 extends approximately 2,200 ft (671 m) into the lake. Lake bathymetry indicates that the nearshore shelf (at water depths less than 13 ft [4 m]) is relatively broad and is bordered by a steeper offshore slope at water depths from 13 to 30 ft (4 to 9 m). SMU 2 is located in the southern portion of the lake offshore from the causeway formerly used by Honeywell for loading and unloading materials. The SMU extends approximately 3,000 ft (914 m) along the southern shore of the lake, from the border with SMU 1 toward Tributary 5A. At its widest point, SMU 2 extends approximately 550 ft (170 m) into the lake. Lake bathymetry indicates that the nearshore shelf is relatively broad, except near the mouth of Tributary 5A, where it becomes steeper (i.e., greater than 15 percent slope). Storm drains associated with I-690 discharge into this SMU. SMU 3 is located offshore of Honeywell's inactive Solvay Wastebeds 1 through 8, which were used to dispose of wastes from the manufacturing of soda ash via the Solvay process. SMU 3 extends approximately 8,000 ft (2,440 m) west from SMU 2. At its widest point, it extends approximately 825 ft (250 m) into the lake. Lake bathymetry indicates that the shelf is relatively steep in the southern part of SMU 3, becoming broader to the north. SMU 4 is located along the shore of Onondaga Lake west of SMU 3 and includes the delta where Ninemile Creek discharges into the lake. SMU 4 extends approximately 3,300 ft (1,006 m) along the shore of the lake. At its widest point, it extends approximately 1,375 ft (420 m) into the lake. Lake bathymetry indicates that the shelf is relatively steep in the northern part of SMU 4, becoming broader to the south. The sediment load at the mouth of Ninemile Creek drives the depositional processes along the central portion of this SMU by discharging fine- and coarse-grained material to the lake. The sediment load from the creek influences the bathymetry and water depth in the central portion of this SMU. SMU 5 includes the littoral zone along the northern and western shores of the lake. Sawmill Creek and Bloody Brook discharge into SMU 5. The Seneca River, the main discharge point for Onondaga Lake, is also located within SMU 5 at the northwestern end of the lake. SMU 5 extends approximately 30,000 ft (9,144 m) from the Ninemile Creek delta to the Ley Creek delta. At its widest point, it extends approximately 1,375 ft (420 m) into the lake. Lake bathymetry indicates that the nearshore shelf (at water depths less than 13 ft [4 m]) is relatively broad and is bordered by a steep offshore slope at water depths from 13 to 30 ft (4 to 9 m). SMU 6 extends approximately 5,000 ft (1,500 m) along the eastern end of Onondaga Lake from the mouth of Ley Creek to 700 ft (213 m) south of the mouth of Onondaga Creek, and includes where Ley Creek, Onondaga Creek, and Metro discharge into Onondaga Lake. At its widest point, it extends approximately 1,925 ft (590 m) north into the lake. Lake bathymetry indicates that the nearshore shelf is relatively broad. SMU 7 is located at the southern corner of Onondaga Lake and includes the littoral zone located between SMU 1 and SMU 6. SMU 7 is located between Harbor Brook to the west and the Onondaga Creek delta to the east and extends approximately 1,375 ft (420 m) along the shore of the lake. At its widest point, it extends approximately 2,200 ft (670 m) into the lake. Lake bathymetry indicates that the shelf is relatively broad near the shore, becoming slightly steeper at a water depth greater than 13 ft (4 m). SMU 8 includes the entire profundal zone of Onondaga Lake, where the water depth is greater than 30 ft (9 m). It is approximately 22,000 ft (6,710 m) long and approximately 5,225 ft (1,590 m) wide at its widest part. SMU 8 has two basins, northern and southern, which are separated by a slight ridge, or saddle, that is approximately 56 ft (17 m) deep. The maximum depths of the northern and southern basins are 62 ft (19 m)

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

and 65 ft (20 m), respectively. Lake bathymetry indicates that the profundal nearshore shelf is relatively steep, becoming broader towards the center of the lake. A Record of Decision addressing Operable Unit 2 was completed in July 2005. Subsequent to the issuance of the Record of Decision (ROD), an extensive pre-design investigation was conducted in Sediment Management Unit (SMU) 2 in the Fall of 2005 and the Spring of 2006 to identify the extent of pooled non-aqueous-phase liquids (NAPLs) and to characterize the subsurface conditions. Based on these investigations, it was determined that NAPLs in the causeway area extend a short distance into the adjacent SMU 1, but the overall extent of pooled NAPLs beneath the lake bottom in SMU 2 is significantly smaller than was anticipated. The ROD assumed that the NAPLs were present beneath the lake bottom over an area of approximately 4.8 acres. The pre-design investigation results indicate, however, that the NAPLs extend over an area of approximately 2 acres which includes the causeway area in SMU 2, and an adjacent portion of SMU 1. An Explanation of Significant Differences addressing Operable Unit 2 was completed in December 2006. Operable Unit (OU) 8: The Town of Salina Landfill site, approximately 55 acres in size, is located in the Town of Salina, Onondaga County, New York. It is designated a Class 2 Inactive Hazardous Disposal Waste Site by the New York State Department of Environmental Conservation (NYSDEC) (New York Registry No. 7-34-036). The Site is bounded by the New York State Thruway to the north and by Route 11 (Wolf Street) to the east. An Onondaga County Resource Recovery Agency Transfer Station is located immediately to the west of the landfill. Ley Creek, a Class B stream, runs through the approximate eastern half of the Site and along the southern border of the approximate western half of the Site. The eastern half of the Site is bounded to the south by the banks of a separate tributary, known as the Old Ley Creek Channel (OLCC). A portion of Ley Creek was moved in the early 1970s to its current location. Landfilled materials have been identified both north of Ley Creek and south of Ley Creek in the land area located between the current Ley Creek and the OLCC, (i.e., north and south of Ley Creek). The sediments, surface waters and banks of Ley Creek under and downstream of the Route 11 bridge, as well as the sediments, surface waters, and banks of the OLCC are collectively a separate Class 2 New York State inactive hazardous waste disposal site known as the "Old Ley Creek Channel Site" (Site Number 734074). Further investigation of the Old Ley Creek Channel site is necessary. Access to the Site has historically been gained from Route 11. Until March 2000, trespassers could enter the Site on foot or by vehicle. Although one entrance to the Site has a locked gate, it was possible to walk or drive around the gate on another dirt road. Once on the Site, several well-worn paths provide vehicle access to most of the Site. Recently, the Town has attempted to limit access to the Site by placing barriers across the dirt access road. It has also placed signs indicating that no dumping is allowed on-Site. A 48-inch abandoned sewer line runs across the Site. A 48-inch corrugated metal pipe (CMP) culvert is located in the eastern part of the Site, and drainage ditches are located along the western, northern, and eastern borders of the Site. Storm water from the Site drains to Ley Creek via the drainage ditches and the culvert. The land containing the Site is currently owned by five parties. The Town of Salina owns 29 acres of the Site, comprising approximately the western half of the Site. The eastern part of the Site (from the Town's property line to west of Route 11) is privately owned. East Plaza, Inc. owns the portion of the Site located between the current Ley Creek and old Ley Creek. Onondaga County owns a strip of land trending east-west across the Site. Niagara Mohawk owns a strip of land trending east-west across the Site. The Onondaga County Resource Recovery Agency owns the property immediately west of the Site. The Salina Landfill is located within an area zoned as an Industrial District. Land located immediately to the south and to the west of the Site is also zoned as an Industrial District. The land directly east of the

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Site, on the opposite side of Wolf Street, is zoned both as a Highway Commercial District and a One-Family Residential District. The land located to the north of the Site, on the opposite side of the New York State Thruway, is zoned as Open-land District, Planned Commercial District, and One-Family Residential District. Based on the Code of the Town of Salina, land within each zoning district has specific intended uses. The Town is considering other options to the current industrial zoning of the landfill property. These may include use of the property for passive recreational purposes (park, walking trails, etc.). There is also the potential for commercial development at and around the vicinity of the landfill. Any written proposals submitted to NYSDEC for the future use of the Site will be considered for incorporation into the remedial plans, as appropriate. Currently, the on-Site aquifers are not used for drinking water. Residents located in the vicinity of the Site use the public water supply provided by Onondaga County. Groundwater near the Site will not be used as a source of potable water under future-use scenarios. The Town of Salina could not produce records indicating the actual date the Salina Landfill opened. However, in 1962, the Town Board closed the dump known as the "Mattydale Dump" pursuant to a court action. The Mattydale Dump was located in the vicinity of the current town garage off of Factory Avenue, approximately 1/2-mile to the east of the Site. With the closure of the Mattydale Dump, it is believed that the Town proceeded to work with a Site property owner (East Plaza, Inc.) to start landfill operations at the current location of the Town of Salina Landfill. In the same year, the Town adopted a garbage collection ordinance to regulate the collection of solid waste within the boundaries of the Town and to promote the public health, safety and welfare of the residents. The Town of Salina established residential refuse districts as early as 1941. As such, the Town Board would solicit bids from independent haulers and enter into a contract each year. Licensing procedures were adopted to monitor the disposal of waste and permits were issued to haulers doing business in the Town. In 1970, periodic checks on the landfill indicated that in addition to waste generated within the Town, additional tonnage was coming from outside areas. The Highway Superintendent reported that the Landfill was reaching capacity and suggested that the boundaries be expanded up to Route 81 or additional property be purchased. During the period the landfill was open, in addition to accepting municipal solid waste, the landfill also accepted hazardous wastes including paint sludge, paint thinner, polychlorinated biphenyl (PCB)-contaminated wastes, and contaminated sediment dredged from Ley Creek. In 1971, several complaints were made by the New York State Thruway Authority because refuse was being left uncovered and debris was blowing onto the Thruway. The Thruway Authority requested that the Town cover the landfill. Due to the capacity problems, the Town Board started looking into other solid waste disposal options, such as purchasing additional property to start another landfill/building an incinerator, or using a shredding plant which was being constructed by the City of Syracuse. Between 1971 and 1974, landfill operations continued with little or no control over the refuse haulers that were dumping in the landfill. Town records indicate that the trucks with permit stickers were on the "honor system" and were not checked for source or quantity of refuse and that only those town residents that brought their own refuse to the landfill were checked. Reaching its capacity, the landfill was officially closed sometime in late 1974 or early 1975, pursuant to an order by NYSDEC. In 1976, landfill cover specifications were issued by NYSDEC for dirt fill and grading of the Site. However, litigation proceedings commenced between the Town of Salina and the property owner East Plaza, Inc. In 1981, the Town purchased the western portion of the Site (approximately 29 acres) from East Plaza, Inc. Once again, landfill cover specifications were issued for the Site by the NYSDEC in July 1981. In September 1981, the Town awarded a contract to cover the landfill with a two-foot clay-type soil. Once the soil was placed, the area

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

was hydroseeded to establish a vegetative cover. This project was completed in November 1982. There were no further remedial activities undertaken at the Site thereafter to the present time. Since that time, a number of investigations have been performed at the Town of Salina Landfill. The investigations have largely been focused on gathering only enough data to determine whether the landfill was a threat to human health and to the environment. In 1986, NYSDEC and the Onondaga County Department of Health collected three soil samples adjacent to the north bank of Ley Creek along the landfill and four surface water samples from the same stretch of Ley Creek and drainage ditches north and east of the landfill. PCBs were not detected in the water samples, but were detected in the soil samples collected adjacent to Ley Creek. In 1987, EPA's contractor collected five soil samples from the main fill area north of Ley Creek and three surface water and sediment samples were collected from Ley Creek as follows - one surface water and one sediment sample were collected from an upstream location in Ley Creek (west of Route 11), one surface water and one sediment sample were collected alongside the landfill (in the drainage swale in the northeast section of the landfill), and one surface water and one sediment sample were collected from just downstream of the landfill in Ley Creek. The soil samples contained polyaromatic hydrocarbon compounds (PAHs), metals, volatile organic compounds (VOCs) and pesticides in low levels, but no PCBs. The surface water and sediment samples collected downstream from the landfill did not contain higher concentrations of contaminants than the samples collected upstream from the landfill. In 1987, NYSDEC's contractor attempted to install three groundwater monitoring wells on-Site. Only one well was completed, as drilling for the other two wells encountered wastes in the form of black oil and petroleum-saturated soil in two boreholes. The soils in these borings contained PCBs, low levels of semi-volatile organic compounds (SVOCs) and dibenzofuran and elevated levels of cadmium, chromium, nickel and zinc. One upgradient monitoring well was installed. The groundwater from this well contained low levels of VOCs and SVOCs, high iron and manganese, but no PCBs. In 1989, a bioaccumulation study conducted by General Motors Corporation's contractor on fish caught in Ley Creek showed that the fish contained up to 6.8 milligrams per kilogram (mg/kg) PCBs. In 1991, during an inspection of the landfill by NYSDEC's contractor, a leachate outbreak was observed along the northern bank of Ley Creek downgradient of an area within the southwestern corner of the landfill. In 1994, NYSDEC's contractor completed a Preliminary Site Assessment. This investigation included the collection of 10 surface water and sediment samples from locations in Ley Creek alongside the landfill, (including one upstream of the landfill), and in the adjacent drainage ditches situated to the north and west of the landfill within the Site. Additionally, five surface soil samples were collected on or around the landfilled area, and three leachate samples were collected from the north bank of Ley Creek (two along the southwestern corner of the landfill, and one near the power lines that pass over Ley Creek). The results indicated low levels of VOCs and SVOCs in the surface water (but no PCBs were detected). PCBs, pesticides, VOCs, and SVOCs were detected in the sediment samples, soil samples, and leachate samples. In 1994, EPA designated Onondaga Lake, its tributaries, and the upland areas which have contributed or are contributing hazardous substance to the lake (subsites) as a Superfund National Priorities List (NPL) site. In 1997, NYSDEC and EPA jointly notified the Town that the Salina Landfill was a subsite of the Onondaga Lake NPL Site due to releases or the threat of releases of hazardous substances, pollutants or contaminants into the environment. In 1996, NYSDEC's contractor prepared a Preliminary Site Assessment Addendum. This supplemental investigation was conducted to provide further information on potential groundwater contamination at the landfill. Five new monitoring wells were installed, developed and sampled in the landfilled area north of Ley Creek. The groundwater from most wells contained

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

low levels of VOCs and SVOCs. A PCB compound was detected in one well at a low concentration. One of the downgradient wells (MW-4) contained almost no organic compounds, but did show elevated levels of a number of metals. Two surface water and sediment samples collected by NYSDEC from drainage ditches on-Site indicated PCBs were present in the sediment, but were absent from the surface water. In 1996, NYSDEC designated the Town of Salina Landfill as a Class 2 Inactive Hazardous Waste Site. This designation means that NYSDEC considers the Site a significant threat to human health and/or the environment, which requires remedial action. This Site was designated a subsite to the Onondaga Lake Superfund Site in June 1997 by NYSDEC and EPA, due to the fact that Site contaminants had migrated to Ley Creek, which flows into the lake. In 1997, representatives from NYSDEC collected three sediment samples from the OLCC. The results of that sampling show that detectable concentrations of VOCs, SVOCs, and PCBs are present in Old Ley Creek Channel. The portion of Ley Creek adjacent to the landfill is not part of the Site due to the presence of upstream sources of contamination that need to be addressed. Upstream contaminated surface water and sediments in Ley Creek are currently being investigated under an RI/FS for the General Motors Former Inland Fisher Guide Facility and Ley Creek Deferred Media subsite of the Onondaga Lake site. The sediments, surface waters and banks of Ley Creek under and downstream of the Route 11 Bridge as well as the sediments, surface waters and banks of the OLCC are collectively being addressed as the "Old Ley Creek Channel Site," which is a separate Class 2 New York State inactive hazardous waste disposal site (Site Number 734074) On October 29, 1997, the Town of Salina entered into an Order on Consent with the NYSDEC to perform the Remedial Investigation/Feasibility Study (RI/FS), remedial design, and remedial action for the Site. On November 17, 1997, the Town also entered into a State Assistance Contract under the 1986 Environmental Quality Bond Act of New York State. This contract stated that the Town would be reimbursed 75% of the eligible costs during the RI/FS. This contract may be amended for the remedial design and remedial action costs. The RI started on June 29, 1998. Two phases of sampling occurred over two summers. An RI report was submitted to NYSDEC by the Town, through its consultants, in May 2000. The report was reviewed by the EPA and NYSDEC, and then revised by the Town's consultants. The RI Report was approved in March 2001. The Town submitted a Draft FS Report in January 2001. The report was reviewed by the EPA and NYSDEC, and then revised by the Town's consultants. The FS Report was approved in May 2002. In January 2003, NYSDEC and EPA released a Proposed Plan describing the remedial alternatives considered for the Site and identifying the preferred remedy with the rationale for the preference. The primary elements of the preferred remedy included constructing impermeable caps over the landfill areas north and south of Ley Creek, constructing groundwater/leachate collection trenches north and south of Ley Creek, and pumping the collected groundwater/leachate to the Metropolitan Syracuse Wastewater Treatment Plant (METRO) for treatment. Comments received during the public comment period indicated that Onondaga County has a policy not to accept wastewater from inactive hazardous waste sites for treatment at METRO. The Town of Salina and the County participated in extended negotiations for an agreement to allow the landfill's groundwater/leachate to be treated at METRO (with or without pretreatment). No agreement was reached. Therefore, two on-Site groundwater/leachate treatment alternatives were evaluated in a September 2006 Addendum to the May 2002 Town of Salina Landfill Feasibility Study Report. A revised Proposed Plan was released to the public for comment in December 2006. A ROD addressing OU8 was completed in March 2007.

CERCLIS Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	04/23/89

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: Not reported
Date Completed: 06/26/89
Priority Level: Not reported

Action: CONSENT DECREE
Date Started: Not reported
Date Completed: 06/26/89
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 04/15/90
Date Completed: 04/22/90
Priority Level: Higher priority for further assessment

Action: SITE INSPECTION
Date Started: 04/15/90
Date Completed: 04/22/90
Priority Level: Higher priority for further assessment

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: 08/03/87
Date Completed: 08/10/90
Priority Level: Not reported

Action: STATE ORDER
Date Started: Not reported
Date Completed: 08/10/90
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: Not reported
Date Completed: 03/16/92
Priority Level: Not reported

Action: CONSENT DECREE
Date Started: Not reported
Date Completed: 03/16/92
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: Not reported
Date Completed: 03/16/92
Priority Level: Not reported

Action: HAZARD RANKING SYSTEM PACKAGE
Date Started: Not reported
Date Completed: 09/29/92
Priority Level: Not reported

Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: Not reported
Date Completed: 05/10/93
Priority Level: Not reported

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Action: FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started: Not reported
Date Completed: 12/16/94
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: Not reported
Date Completed: 10/20/95
Priority Level: Not reported

Action: CONSENT DECREE
Date Started: Not reported
Date Completed: 10/20/95
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: Not reported
Date Completed: 09/27/97
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: Not reported
Date Completed: 01/22/98
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY FEASIBILITY STUDY
Date Started: 10/01/93
Date Completed: 02/09/98
Priority Level: Not reported

Action: RECORD OF DECISION
Date Started: Not reported
Date Completed: 02/09/98
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 02/09/98
Date Completed: 07/15/99
Priority Level: Not reported

Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: Not reported
Date Completed: 07/15/99
Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: Not reported
Date Completed: 07/15/99
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: 03/08/99
Date Completed: 09/29/99
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: 11/19/98

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Date Completed: 11/08/99
Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: Not reported
Date Completed: 01/25/00
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: Not reported
Date Completed: 01/25/00
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 10/20/95
Date Completed: 09/29/00
Priority Level: Not reported

Action: RECORD OF DECISION
Date Started: Not reported
Date Completed: 09/29/00
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 07/15/99
Date Completed: 09/28/01
Priority Level: Final RA Report

Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 01/22/01
Date Completed: 03/21/02
Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: Not reported
Date Completed: 03/21/02
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 06/26/89
Date Completed: 03/28/02
Priority Level: Not reported

Action: RECORD OF DECISION
Date Started: Not reported
Date Completed: 03/28/02
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: 02/28/01
Date Completed: 05/24/02
Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: Not reported

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Date Completed: 05/24/02
Priority Level: Not reported

Action: NEGOTIATION (GENERIC)
Date Started: 10/03/01
Date Completed: 07/22/02
Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: Not reported
Date Completed: 07/22/02
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: 03/12/02
Date Completed: 11/01/02
Priority Level: Not reported

Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: 11/28/01
Date Completed: 11/08/02
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 01/25/00
Date Completed: 04/17/03
Priority Level: Not reported

Action: NEGOTIATION (GENERIC)
Date Started: 11/18/03
Date Completed: 01/22/04
Priority Level: Not reported

Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: Not reported
Date Completed: 01/22/04
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 08/23/01
Date Completed: 09/30/04
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 03/16/92
Date Completed: 07/01/05
Priority Level: Not reported

Action: FEASIBILITY STUDY
Date Started: 09/23/03
Date Completed: 07/01/05
Priority Level: Not reported

Action: RECORD OF DECISION
Date Started: Not reported

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Date Completed: 07/01/05
Priority Level: Not reported

Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 01/05/06
Date Completed: 10/11/06
Priority Level: Not reported

Action: Explanation Of Significant Differences
Date Started: Not reported
Date Completed: 12/14/06
Priority Level: Not reported

Action: CONSENT DECREE
Date Started: 10/11/06
Date Completed: 01/04/07
Priority Level: Not reported

Action: FIVE-YEAR REVIEW
Date Started: 04/17/06
Date Completed: 01/30/07
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION
Date Started: Not reported
Date Completed: 03/13/07
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 11/11/97
Date Completed: 03/29/07
Priority Level: Not reported

Action: RECORD OF DECISION
Date Started: Not reported
Date Completed: 03/29/07
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 01/22/98
Date Completed: 04/29/09
Priority Level: Not reported

Action: ENGINEERING EVALUATION/COST ANALYSIS
Date Started: 07/22/02
Date Completed: 04/29/09
Priority Level: Not reported

Action: RECORD OF DECISION
Date Started: Not reported
Date Completed: 04/29/09
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Date Started: 01/22/98
Date Completed: 10/01/09
Priority Level: Not reported

Action: RECORD OF DECISION
Date Started: Not reported
Date Completed: 10/01/09
Priority Level: Not reported

Action: FIVE-YEAR REVIEW
Date Started: 06/30/09
Date Completed: 10/08/09
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 08/10/90
Date Completed: Not reported
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 09/30/94
Date Completed: Not reported
Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 09/30/94
Date Completed: Not reported
Priority Level: Not reported

Action: TECHNICAL ASSISTANCE GRANT
Date Started: 09/29/95
Date Completed: Not reported
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 09/27/97
Date Completed: Not reported
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 09/29/99
Date Completed: Not reported
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 11/08/99
Date Completed: Not reported
Priority Level: Not reported

Action: TECHNICAL ASSISTANCE
Date Started: 09/30/00
Date Completed: Not reported

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Priority Level:	Not reported
Action:	TECHNICAL ASSISTANCE
Date Started:	09/30/00
Date Completed:	Not reported
Priority Level:	Not reported
Action:	TECHNICAL ASSISTANCE
Date Started:	09/30/00
Date Completed:	Not reported
Priority Level:	Not reported
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	05/24/02
Date Completed:	Not reported
Priority Level:	Not reported
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	11/01/02
Date Completed:	Not reported
Priority Level:	Not reported
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	11/08/02
Date Completed:	Not reported
Priority Level:	Not reported
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started:	09/30/04
Date Completed:	Not reported
Priority Level:	Final RA Report
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started:	09/30/04
Date Completed:	Not reported
Priority Level:	Final RA Report
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started:	10/20/04
Date Completed:	Not reported
Priority Level:	Not reported
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	10/04/05
Date Completed:	Not reported
Priority Level:	Not reported
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started:	01/04/07
Date Completed:	Not reported
Priority Level:	Not reported
Action:	ENGINEERING EVALUATION/COST ANALYSIS

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Date Started: 03/09/07
Date Completed: Not reported
Priority Level: Not reported

Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/10/07
Date Completed: Not reported
Priority Level: Not reported

Action: TECHNICAL ASSISTANCE
Date Started: 01/30/08
Date Completed: Not reported
Priority Level: Not reported

Action: ENGINEERING EVALUATION/COST ANALYSIS
Date Started: 02/17/09
Date Completed: Not reported
Priority Level: Not reported

Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 10/27/09
Date Completed: Not reported
Priority Level: Not reported

US ENG CONTROLS:
EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Actual Date: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 12/14/2006
Planned Complet. date: 12/31/2006
Operable Unit: 02
Contaminated Media : Free-phase NAPL
Engineering Control: Free Product Recovery

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 7/1/2005
Planned Complet. date: 7/1/2005
Operable Unit: 02
Contaminated Media : Sediment
Engineering Control: Cap

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 7/1/2005
Planned Complet. date: 7/1/2005
Operable Unit: 02

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Contaminated Media : Sediment
Engineering Control: Disposal

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 7/1/2005
Planned Complet. date: 7/1/2005
Operable Unit: 02
Contaminated Media : Sediment
Engineering Control: Excavation

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 7/1/2005
Planned Complet. date: 7/1/2005
Operable Unit: 02
Contaminated Media : Sediment
Engineering Control: Monitoring

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 7/1/2005
Planned Complet. date: 7/1/2005
Operable Unit: 02
Contaminated Media : Sediment
Engineering Control: Natural Attenuation

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 7/1/2005
Planned Complet. date: 7/1/2005
Operable Unit: 02
Contaminated Media : Sediment
Engineering Control: Treatment, (N.O.S.)

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Containment, (N.O.S.)

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Hydraulic Control

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Groundwater

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Engineering Control: Monitoring

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Pump And Treat

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Slurry Wall

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Groundwater
Engineering Control: Treatment, (N.O.S.)

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Soil
Engineering Control: Cap

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Soil
Engineering Control: Containment, (N.O.S.)

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Soil
Engineering Control: Disposal

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Soil
Engineering Control: Excavation

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 9/29/2000
Planned Complet. date: 9/30/2000
Operable Unit: 05
Contaminated Media : Soil
Engineering Control: Treatment, (N.O.S.)

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 3/28/2002
Planned Complet. date: 3/31/2002
Operable Unit: 06
Contaminated Media : Groundwater
Engineering Control: Extraction

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 3/28/2002
Planned Complet. date: 3/31/2002
Operable Unit: 06
Contaminated Media : Groundwater
Engineering Control: Monitoring

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 3/28/2002
Planned Complet. date: 3/31/2002
Operable Unit: 06
Contaminated Media : Groundwater
Engineering Control: Treatment, (N.O.S.)

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 3/28/2002
Planned Complet. date: 3/31/2002
Operable Unit: 06
Contaminated Media : Solid Waste
Engineering Control: Cap

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 3/28/2002
Planned Complet. date: 3/31/2002
Operable Unit: 06
Contaminated Media : Solid Waste
Engineering Control: Excavation

Action ID: 005
Action Name: RECORD OF DECISION
Action Completion date: 3/28/2002
Planned Complet. date: 3/31/2002
Operable Unit: 06
Contaminated Media : Solid Waste
Engineering Control: Recycling

Action ID: 010

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Groundwater
Engineering Control: Discharge

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Groundwater
Engineering Control: Extraction

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Groundwater
Engineering Control: Flocculation

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Groundwater
Engineering Control: Monitoring

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Groundwater
Engineering Control: Operations & Maintenance (O&M)

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Groundwater
Engineering Control: Treatment, (N.O.S.)

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Leachate
Engineering Control: Discharge

Action ID: 010
Action Name: RECORD OF DECISION

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Leachate
Engineering Control: Flocculation

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Leachate
Engineering Control: Monitoring

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Leachate
Engineering Control: Operations & Maintenance (O&M)

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Leachate
Engineering Control: Treatment, (N.O.S.)

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Cap

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Consolidate

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Disposal

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Engineering Control, (N.O.S.)

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Excavation

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Hot Water or Steam Flushing/Stripping

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Liner

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Sediment
Engineering Control: Operations & Maintenance (O&M)

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Soil
Engineering Control: Cap

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Soil
Engineering Control: Consolidate

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Operable Unit: 08
Contaminated Media : Soil
Engineering Control: Disposal

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Soil
Engineering Control: Excavation

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Surface Water
Engineering Control: Engineering Control, (N.O.S.)

Action ID: 010
Action Name: RECORD OF DECISION
Action Completion date: 3/29/2007
Planned Complet. date: 3/31/2007
Operable Unit: 08
Contaminated Media : Surface Water
Engineering Control: Monitoring

US INST CONTROL:
EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Deed Notices
Actual Date: Not reported
Complet. Date: 7/1/2005
Operable Unit: 02
Contaminated Media : Sediment

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Covenant
Actual Date: Not reported
Complet. Date: 3/28/2002

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Operable Unit: 06
Contaminated Media : Groundwater

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Covenant
Actual Date: Not reported
Complet. Date: 3/29/2007
Operable Unit: 08
Contaminated Media : Groundwater

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Easement
Actual Date: Not reported
Complet. Date: 3/29/2007
Operable Unit: 08
Contaminated Media : Groundwater

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Groundwater use/well drilling regulation
Actual Date: Not reported
Complet. Date: 3/29/2007
Operable Unit: 08
Contaminated Media : Groundwater

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Inst. Control: Zoning regulation
Actual Date: Not reported
Complet. Date: 3/29/2007
Operable Unit: 08
Contaminated Media : Leachate

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Covenant
Actual Date: Not reported
Complet. Date: 3/29/2007
Operable Unit: 08
Contaminated Media : Sediment

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Easement
Actual Date: Not reported
Complet. Date: 3/29/2007
Operable Unit: 08
Contaminated Media : Sediment

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Zoning regulation
Actual Date: Not reported
Complet. Date: 3/29/2007
Operable Unit: 08
Contaminated Media : Sediment

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Covenant
Actual Date: Not reported
Complet. Date: 3/29/2007
Operable Unit: 08
Contaminated Media : Soil

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Easement
Actual Date: Not reported
Complet. Date: 3/29/2007
Operable Unit: 08
Contaminated Media : Soil

EPA ID: NYD986913580
Site ID: 0203382
Name: ONONDAGA LAKE
Action Name: RECORD OF DECISION
Address: Not reported
SYRACUSE, NY 13209
EPA Region: 02
County: ONONDAGA
Event Code: Not reported
Inst. Control: Zoning regulation
Actual Date: Not reported
Complet. Date: 3/29/2007
Operable Unit: 08
Contaminated Media : Soil

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

FINDS:

Registry ID: 110009303645

Environmental Interest/Information System

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

NY Spills:

Site ID:	226198
Facility Addr2:	Not reported
Facility ID:	9204497
Spill Number:	9204497
Facility Type:	ER
SWIS:	3415
Investigator:	RJBRAZEL
Referred To:	Not reported
Spill Date:	7/18/1992
Reported to Dept:	7/20/1992
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Federal Government
Cleanup Ceased:	7/20/1992
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt:	7/20/1992
Remediation Phase:	0
Date Entered In Computer:	9/10/1992
Spill Record Last Update:	11/3/1993
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	186713
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "RB"
Remarks:	UNKNOWN LOCATION OR CAUSE

Material:

Site ID:	226198
Operable Unit ID:	968196
Operable Unit:	01

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Material ID: 412215
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9204497
Investigator: RB
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 07/18/1992 09:00
Reported to Dept Date/Time: 07/20/92 09:33
SWIS: 31
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Federal Government
PBS Number: Not reported
Cleanup Ceased: 07/20/92
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False

ONONDAGA LAKE SEDIMENTS (Continued) **1000481580**

Spill Class: No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt: 07/20/92
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 09/10/92
Date Spill Entered In Computer Data File: Not reported
Update Date: 11/03/93
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: UNKNOWN LOCATION OR CAUSE

B3 **HONEYWELL INTERNATIONAL INC.** **NY Spills** **S110367574**
East **522 GERE LOCK RD** **CBS** **N/A**
1/2-1 **SYRACUSE, NY 13209**
0.599 mi.
3162 ft. **Site 1 of 3 in cluster B**

Relative:
Higher

Actual:
408 ft.

NY Spills:
Site ID: 442264
Facility Addr2: Not reported
Facility ID: 1008746
Spill Number: 1008746
Facility Type: ER
SWIS: 3420
Investigator: KCKEMP
Referred To: Not reported
Spill Date: 11/19/2010
Reported to Dept: 11/19/2010
CID: Not reported
Spill Cause: Equipment Failure
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Other
Cleanup Ceased: 11/22/2010
Cleanup Meets Std: True
Last Inspection: 11/19/2010
Recommended Penalty: Penalty Not Recommended
UST Trust: False

HONEYWELL INTERNATIONAL INC. (Continued) **S110367574**

Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/22/2010
Remediation Phase:	0
Date Entered In Computer:	11/19/2010
Spill Record Last Update:	11/22/2010
Spiller Name:	AL LABUZ
Spiller Company:	HONEYWELL INTERNATIONAL INC
Spiller Address:	101 COLUMBIA RD - SUITE 1139
Spiller City,St,Zip:	MORRISTOWN, NJ 07962-1139
Spiller Company:	999
Contact Name:	AL
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	397297
DEC Memo:	Workers preparing secondary containment for repairs / upgrades to containment lining tomorrow AM struck 2" dia. PVC drain valve on Tank HLC-004 with either hand tool or foot, causing normally closed drain valve to break off and spill of estimated 1,000 gallons of 33% hydrochloric acid to concrete secondary containment structure and HCL vapor cloud in immediate area and approx 1,000 feet downwind in a northerly direction towards CSX Mainline. Honeywell contracted with Op-tech for cleanup, who responded with a vacuum truck and service truck, suited up to Level B with respirator, and vacuumed acid and spalled concrete out of containment. Once standing liquid had been removed, neutralized with sodium bicarb and water, which was also vacuumed. All materials collected disposed of in leachate neutralization basin adjacent to spill site. Site is CBS 7-000374, and NOV dated 8/16/2010 identified the condition of the secondary containment, and the secondary containment work being prepped today was in accordance to the work plan dated 9/15-16/2010 prepared by Honeywell in response to that NOV. Spilled hydrochloric acid disintegrated approx 2 inches of concrete from walls and floor exposed to acid. Rebar visible. Several photos in eDocs. Initial contact regarding spill was made directly from Honeywell Al Labuz directly to DEC Kemp. DEC Kemp advised Honeywell Al Labuz to contact Spill Hotline per 6 NYCRR Part 595.3. DEC Kemp advised RSE Brazell immediately then responded to scene (ETA 10 minutes upon call from Honeywell). RSE Brazell to evaluate if notification required. Cleanup of spilled acid completed approx 1930 hours. Honeywell / OB&G to evaluate if secondary containment is salvageable, then repair or replace containment. KCKemp - 2010-11-19 Cleanup complete - does not appear secondary containment was breached. RSE Brazell also stated notification not required. Spill closed after discussion with RSE Brazell. KCKemp - 2010-11-22
Remarks:	Caller stated it is contained to a containment hold.

Material:

Site ID:	442264
Operable Unit ID:	1192775
Operable Unit:	01
Material ID:	2188113
Material Code:	0029B
Material Name:	HYDROCHLORIC ACID
Case No.:	07647010
Material FA:	Hazardous Material
Quantity:	1000
Units:	Gallons

HONEYWELL INTERNATIONAL INC. (Continued) **S110367574**

Recovered: 1000
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

CBS:
CBS Number: 7-000374
Program Type: CBS
Dec Region: 7
Expiration Date: 2010/12/11
Facility Status: Active
UTMX: 399213.13994999
UTMY: 4769295.5774699

B4 **GERELOCK I** **NY Spills** **S102167167**
East **THOMAS AVE & GERELOCK RD.** **NY Hist Spills** **N/A**
1/2-1 **FAIRMONT, NY**
0.651 mi.
3436 ft. **Site 2 of 3 in cluster B**

Relative:
Higher

Actual:
404 ft.

NY Spills:
Site ID: 168330
Facility Addr2: Not reported
Facility ID: 9305567
Spill Number: 9305567
Facility Type: ER
SWIS: 3400
Investigator: MENASH
Referred To: Not reported
Spill Date: 8/4/1993
Reported to Dept: 8/4/1993
CID: Not reported
Spill Cause: Abandoned Drums
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Local Agency
Cleanup Ceased: 8/4/1993
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 8/4/1993

GERELOCK I (Continued) **S102167167**

Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	141808
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MN" 08/04/93: NO SIGNFICANT SPILL TO REMOVE.
Remarks:	FOUND A 20-25 PAIL OF GASOLINE ONSIDE OF ROAD. CREEK IS NEARBY. WANTS A CALLBACK. ACROSS THE STREET 690 OFF RAMP.

Material:

Site ID:	168330
Operable Unit ID:	987074
Operable Unit:	01
Material ID:	395479
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	9305567
Investigator:	MN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	08/04/1993 14:45
Reported to Dept Date/Time:	08/04/93 15:00

GERELOCK I (Continued) **S102167167**

SWIS: 31
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Abandoned Drums
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Local Agency
PBS Number: Not reported
Cleanup Ceased: 08/04/93
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 08/04/93
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 08/04/93
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 08/04/93: NO SIGNFICANT SPILL TO REMOVE.
Remark: FOUND A 20-25 PAIL OF GASOLINE ONSIDE OF ROAD. CREEK IS NEARBY. WANTS A CALLBACK. ACROSS THE STREET 690 OFF RAMP.

B5 **GERELOCK RD. II** **NY Spills** **S102167168**
East **GERELOCK RD. & THOMAS DR.** **NY Hist Spills** **N/A**
1/2-1 **FAIRMOUNT, NY**
0.651 mi.
3436 ft. **Site 3 of 3 in cluster B**

Relative:
Higher

Actual:
404 ft.

NY Spills:

Site ID:	99895
Facility Addr2:	Not reported
Facility ID:	9305572
Spill Number:	9305572
Facility Type:	ER
SWIS:	3400
Investigator:	ROMOCKI
Referred To:	Not reported
Spill Date:	8/4/1993
Reported to Dept:	8/4/1993
CID:	Not reported
Spill Cause:	Deliberate
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Fire Department
Cleanup Ceased:	8/4/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/4/1993
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	88740
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MR" 08/04/93: REFER TO SPILL #9305567.
Remarks:	10-12 VEHICLE FUEL TANKS DUMPED ALONG ROADSIDE. ALSO 5 GALLON PAIL WITH SOME GASOLINE DUMPED INTO DITCH.

Material:

Site ID:	99895
Operable Unit ID:	983733
Operable Unit:	01
Material ID:	395484
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No

GERELOCK RD. II (Continued) **S102167168**

Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9305572
Investigator: MR
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 08/04/1993 16:00
Reported to Dept Date/Time: 08/04/93 16:15
SWIS: 31
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Deliberate
Reported to Dept: Surface Water
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Fire Department
PBS Number: Not reported
Cleanup Ceased: 08/04/93
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 08/04/93
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 08/04/93
Date Spill Entered In Computer Data File: Not reported

GERELOCK RD. II (Continued) **S102167168**

Update Date: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 08/04/93: REFER TO SPILL 9305567.
Remark: 10-12 VEHICLE FUEL TANKS DUMPED ALONG ROADSIDE. ALSO 5 GALLON PAIL WITH SOME GASOLINE DUMPED INTO DITCH.

C6 **BELLE ISLE C & D LANDFILL SITE** **FINDS** **1007802926**
South **6051 BELLE ISLE ROAD** **N/A**
1/2-1 **CAMILLUS, NY 13031**
0.659 mi.
3479 ft. **Site 1 of 4 in cluster C**

Relative:
Higher

Actual:
474 ft.

FINDS:

Registry ID: 110019654532

Environmental Interest/Information System
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

C7 **BELLE ISLE C&D LANDFILL** **SWF/LF** **S106123056**
South **6051 BELLE ISLE RD.** **N/A**
1/2-1 **CAMILLUS, NY 13219**
0.659 mi.
3479 ft. **Site 2 of 4 in cluster C**

Relative:
Higher

Actual:
474 ft.

SWF/LF:
Flag: INACTIVE
Region Code: 7
Phone Number: 3154884846
Owner Name: Town of Camillus
Owner Type: Municipal
Owner Address: 4600 West Genesse Street
Owner Addr2: Not reported

BELLE ISLE C&D LANDFILL (Continued) **S106123056**

Owner City,St,Zip:	Camillus, NY 13219
Owner Email:	Not reported
Owner Phone:	3154881335
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - registered
Activity Number:	34R02
Active:	No
East Coordinate:	398379
North Coordinate:	4768459
Accuracy Code:	4.3 - Utilization of Digital Orthophoto Quads
Regulatory Status:	Registration
Waste Type:	Clean Fill
Authorization #:	Not reported
Authorization Date:	1/27/1995
Expiration Date:	Not reported

C8 **HONEYWELL/CAMILLUS BED #15 C&D** **SWF/LF** **S105841629**
South **6051 BELLE ISLE RD.** **FINANCIAL ASSURANCE** **N/A**
1/2-1 **SYRACUSE, NY**
0.660 mi.
3486 ft. **Site 3 of 4 in cluster C**

Relative:
Higher

Actual:
474 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	7
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Al Labuz
Contact Address:	Honeywell
Contact Addr2:	5000 Brittonfield Parkway; Suite 700
Contact City,St,Zip:	East Syracuse, NY 13057
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Land Application -Septage and food processing - registered
Activity Number:	34L01
Active:	Yes
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Registration
Waste Type:	Biosolids
Authorization #:	34L01
Authorization Date:	10/9/2009
Expiration Date:	Not reported

Flag:	ACTIVE
Region Code:	7

HONEYWELL/CAMILLUS BED #15 C&D (Continued) **S105841629**

Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Other
Activity Number:	Not reported
Active:	Yes
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	ACTIVE
Region Code:	7
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Other
Activity Number:	Not reported
Active:	Yes
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	ACTIVE
Region Code:	7
Phone Number:	3154884846

HONEYWELL/CAMILLUS BED #15 C&D (Continued) **S105841629**

Owner Name:	Honeywell International; Inc.
Owner Type:	Private
Owner Address:	301 Plainfield Road; Suite 330
Owner Addr2:	Not reported
Owner City,St,Zip:	Syracuse, NY 13212
Owner Email:	Not reported
Owner Phone:	3155529700
Contact Name:	Mark Pigula
Contact Address:	6051 Belle Isle Rd.
Contact Addr2:	Not reported
Contact City,St,Zip:	NY 13031
Contact Email:	Not reported
Contact Phone:	3154884846
Activity Desc:	Landfill - construction and demolition debris
Activity Number:	34D05
Active:	Yes
East Coordinate:	398379
North Coordinate:	4768459
Accuracy Code:	4.3 - Utilization of Digital Orthophoto Quads
Regulatory Status:	Consent Order
Waste Type:	Construction & Demolition Debris
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	ACTIVE
Region Code:	7
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Other
Activity Number:	Not reported
Active:	Yes
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

Flag:	ACTIVE
Region Code:	7
Phone Number:	Not reported
Owner Name:	Not reported

HONEYWELL/CAMILLUS BED #15 C&D (Continued) **S105841629**

Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: Not reported
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: Other
Activity Number: Not reported
Active: Yes
East Coordinate: Not reported
North Coordinate: Not reported
Accuracy Code: Not reported
Regulatory Status: None
Waste Type: Not reported
Authorization #: None
Authorization Date: Not reported
Expiration Date: Not reported

Flag: ACTIVE
Region Code: 7
Phone Number: Not reported
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: Al Labuz
Contact Address: Honeywell
Contact Addr2: 5000 Brittonfield Parkway; Suite 700
Contact City,St,Zip: East Syracuse, NY 13057
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: Other
Activity Number: Not reported
Active: Yes
East Coordinate: Not reported
North Coordinate: Not reported
Accuracy Code: Not reported
Regulatory Status: None
Waste Type: Not reported
Authorization #: None
Authorization Date: Not reported
Expiration Date: Not reported

NY FINANCIAL ASSURANCE:
Owner Name: Honeywell International; Inc.
Region: 7
Estimate Type: Not reported
Estimate Amount: Not reported

HONEYWELL/CAMILLUS BED #15 C&D (Continued) **S105841629**

Estimate Date: Not reported
Mechanism: Trust fund
Mechanism Amount: 67520.75
Financial Institution: M&T Investment Group
Issue Date: 2/17/2005
Expiration Date: Not reported
Activity Number: 34D05
Activity Description: Landfill - construction and demolition debris

Owner Name: Honeywell International; Inc.
Region: 7
Estimate Type: Not reported
Estimate Amount: Not reported
Estimate Date: Not reported
Mechanism: Trust fund
Mechanism Amount: 153259.62
Financial Institution: M&T Investment Group
Issue Date: 12/14/2005
Expiration Date: Not reported
Activity Number: 34D05
Activity Description: Landfill - construction and demolition debris

Owner Name: Honeywell International; Inc.
Region: 7
Estimate Type: Not reported
Estimate Amount: Not reported
Estimate Date: Not reported
Mechanism: Trust fund
Mechanism Amount: 105571.85000000
Financial Institution: M&T Investment Group
Issue Date: 12/6/2004
Expiration Date: Not reported
Activity Number: 34D05
Activity Description: Landfill - construction and demolition debris

Owner Name: Honeywell International; Inc.
Region: 7
Estimate Type: Not reported
Estimate Amount: Not reported
Estimate Date: Not reported
Mechanism: Trust fund
Mechanism Amount: 61903.620000000
Financial Institution: M&T Investment Group
Issue Date: 5/13/2005
Expiration Date: Not reported
Activity Number: 34D05
Activity Description: Landfill - construction and demolition debris

Owner Name: Honeywell International; Inc.
Region: 7
Estimate Type: Not reported
Estimate Amount: Not reported
Estimate Date: Not reported
Mechanism: Trust fund
Mechanism Amount: 133764.14000000
Financial Institution: M&T Investment Group
Issue Date: 3/14/2006

HONEYWELL/CAMILLUS BED #15 C&D (Continued) **S105841629**

Expiration Date: Not reported
Activity Number: 34D05
Activity Description: Landfill - construction and demolition debris

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C9 **CAMILLUS C&D LANDFILL** **AST** **A100320236**
South **6051 BELLE ISLE RD** **N/A**
1/2-1 **SYRACUSE, NY 13209**
0.660 mi.
3486 ft. **Site 4 of 4 in cluster C**

Relative:
Higher

Actual:
474 ft.

AST:
Region: STATE
DEC Region: 7
Site Status: Active
Facility Id: 7-601234
Program Type: PBS
UTM X: 398419.83565999998
UTM Y: 4768404.3384800004
Expiration Date: 2013/06/11

Affiliation Records:
Site Id: 399053
Affiliation Type: Owner
Company Name: TOWN OF CAMILLUS
Contact Type: HIGHWAY SUPERINTENDENT
Contact Name: MARK PIGULA
Address1: 4600 WEST GENESEE ST
Address2: Not reported
City: SYRACUSE
State: NY
Zip Code: 13219
Country Code: 001
Phone: (315) 672-5556
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: KCKEMP
Date Last Modified: 6/11/2008

Site Id: 399053
Affiliation Type: On-Site Operator
Company Name: CAMILLUS C&D LANDFILL
Contact Type: Not reported
Contact Name: RON TROUP
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 488-4846
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: KCKEMP
Date Last Modified: 6/11/2008

Site Id: 399053

CAMILLUS C&D LANDFILL (Continued) **A100320236**

Affiliation Type:	Mail Contact
Company Name:	TOWN OF CAMILLUS
Contact Type:	Not reported
Contact Name:	MARK PIGULA
Address1:	4334 MILTON AVE
Address2:	Not reported
City:	CAMILLUS
State:	NY
Zip Code:	13031
Country Code:	001
Phone:	(315) 672-5556
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	6/11/2008

Site Id:	399053
Affiliation Type:	Emergency Contact
Company Name:	TOWN OF CAMILLUS
Contact Type:	Not reported
Contact Name:	MARK PIGULA
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 672-5556
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	6/11/2008

Equipment Records:

A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
K00 - Spill Prevention - None
J02 - Dispenser - Suction
K00 - Spill Prevention - None
D10 - Pipe Type - Copper
E10 - Piping Secondary Containment - Impervious Underlayment
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
L00 - Piping Leak Detection - None
J02 - Dispenser - Suction
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
B01 - Tank External Protection - Painted/Asphalt Coating
I00 - Overfill - None
F00 - Pipe External Protection - None
J02 - Dispenser - Suction
L00 - Piping Leak Detection - None

CAMILLUS C&D LANDFILL (Continued) **A100320236**

I00 - Overfill - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
E00 - Piping Secondary Containment - None
I00 - Overfill - None
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
F00 - Pipe External Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
L00 - Piping Leak Detection - None
C00 - Pipe Location - No Piping
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
B01 - Tank External Protection - Painted/Asphalt Coating

Tank Info:

Tank Number:	008
Tank Id:	223529
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	5/1/2008
Capacity Gallons:	250
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	6/11/2008

Tank Number:	009
Tank Id:	223530
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	203
Pipe Model:	Not reported
Install Date:	1/1/1995
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	6/11/2008

Tank Number:	010
Tank Id:	223531
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron

CAMILLUS C&D LANDFILL (Continued) **A100320236**

Tank Status:	In Service
Tank Model:	203
Pipe Model:	Not reported
Install Date:	1/1/1995
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	6/11/2008

10
East
1/2-1
0.673 mi.
3554 ft.

GERELOCK RD. **NY Spills** **S102678112**
GERELOCK RD **NY Hist Spills** **N/A**
SOLVAY, NY

Relative:
Higher

Actual:
402 ft.

NY Spills:

Site ID:	75986
Facility Addr2:	NEAR MATTHEW
Facility ID:	9302630
Spill Number:	9302630
Facility Type:	ER
SWIS:	3400
Investigator:	ROMOCKI
Referred To:	Not reported
Spill Date:	5/24/1993
Reported to Dept:	5/26/1993
CID:	Not reported
Spill Cause:	Other
Water Affected:	DRAINAGE DITCH
Spill Source:	Unknown
Spill Notifier:	Citizen
Cleanup Ceased:	5/27/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt:	5/27/1993
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	NONE
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	71091
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MR" 05/27/93: INSPECTED SITE. LOCATED "SPILL", APPEARED TO BE ALGEA/BACTERIA GROWTH.
Remarks:	REPORT OFDARK,RUSTY COLORED MATERIAL OBSERVED IN DITCH NEAR OLD

GERELOCK RD. (Continued) **S102678112**

LANDFILL.

Material:

Site ID:	75986
Operable Unit ID:	984636
Operable Unit:	01
Material ID:	399751
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	9302630
Investigator:	MR
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	05/24/1993 12:00
Reported to Dept Date/Time:	05/26/93 16:44
SWIS:	31
Spiller Name:	NONE
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Other
Reported to Dept:	Surface Water
Water Affected:	DRAINAGE DITCH
Spill Source:	12
Spill Notifier:	Citizen
PBS Number:	Not reported
Cleanup Ceased:	05/27/93
Cleanup Meets Std:	True
Last Inspection:	/ /

GERELOCK RD. (Continued) **S102678112**

Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt: 05/27/93
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 05/27/93
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Raw Sewage
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN MATERIAL
Class Type: UNKNOWN MATERIAL
Times Material Entry In File: 9140
CAS Number: Not reported
Last Date: 19941109
DEC Remarks: 05/27/93: INSPECTED SITE. LOCATED SPILL , APPEARED TO BE ALGEA/BACTERIA GROWTH.
Remark: REPORT OFDARK,RUSTY COLORED MATERIAL OBSERVED IN DITCH NEAR OLD LANDFILL.

D11 **BIANCHI EXCAVATING** **LTANKS** **S101174680**
East **BIANCHI EXCAVATING** **HIST LTANKS** **N/A**
1/2-1 **SYRACUSE, NY**
0.755 mi.
3985 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
400 ft.

LTANKS:
Site ID: 253841
Spill No: 9406363
Spill Date: 8/9/1994
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 8/6/1996
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: True
SWIS: 3415
Investigator: BFMATTHE
Referred To: Not reported
Reported to Dept: 8/9/1994

BIANCHI EXCAVATING (Continued) **S101174680**

CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	8/9/1994
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	8/20/1994
Spill Record Last Update:	8/7/1996
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	5987 BELLE ISLE ROAD
Spiller City,St,Zip:	SYRACUSE, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	207917
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "BM" 08/29/94: SOIL SAMPLES INDICATE SMALL HIT OF TOULENE OF 170 PPM. WILL KEEP SPILL INACTIVE AS SOME SOIL IS STAGED ON SITE. 06/10/96: SOIL HAS BEEN SPREAD OUT ON PLASTIC FOR TWO YEARS. NO HITS ON PID. TOULENE WAS ONLY CONSTITUIT THAT DID NOT MEET STARS REQUIREMENTS. SOIL USED ON SITE FOR BACKFILL.
Remarks:	DURING TANK REMOVAL CONTAMINATED SOIL FOUND DURING TANK REMOVAL. SOIL SAMPLES TAKEN. 20 CU. YDS STAGED

Material:

Site ID:	253841
Operable Unit ID:	1000652
Operable Unit:	01
Material ID:	379407
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

BIANCHI EXCAVATING (Continued) **S101174680**

HIST LTANKS:

Region of Spill:	7
Spill Number:	9406363
Spill Date:	08/09/1994
Spill Time:	13:30
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	08/06/96
Cleanup Ceased:	/ /
Cleanup Meets Standard:	True
Investigator:	BM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	08/09/94
Reported to Department Time:	13:35
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	SAME
Spiller Address:	5987 BELLE ISLE ROAD
Spiller City,St,Zip:	SYRACUSE
Spiller Cleanup Date:	08/18/94
Facility Contact:	Not reported
Facility Phone:	(315) 487-2129
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	08/09/94
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	06/10/96
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	08/20/94
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	08/07/96
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported

BIANCHI EXCAVATING (Continued) **S101174680**

Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 08/29/94: SOIL SAMPLES INDICATE SMALL HIT OF TOULENE OF 170 PPM. WILL KEEP SPILL INACTIVE AS SOME SOIL IS STAGED ON SITE. 06/10/96: SOIL HAS BEEN SPREAD OUT ON PLASTIC FOR TWO YEARS. NO HITS ON PID. TOULENE WAS ONLY CONSTITUIT THAT DID NOT MEET STARS REQUIREMENTS. SOIL USED ON SITE FOR BACKFILL.
Spill Cause: DURING TANK REMOVAL CONTAMINATED SOIL FOUND DURING TANK REMOVAL. SOIL SAMPLES TAKEN. 20 CU. YDS STAGED

D12
East
1/2-1
0.781 mi.
4126 ft.

NYSDOT BIN 1093349 **RCRA-NonGen** **1000791006**
RTE 695 OVER GERELOCK RD **FINDS** **NYD987025020**
CAMILLUS, NY 13031

Site 2 of 2 in cluster D

Relative:
Higher

Actual:
405 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: NYSDOT BIN 1093349
Facility address: RTE 695 OVER GERELOCK RD
CAMILLUS, NY 13031
EPA ID: NYD987025020
Contact: Not reported
Contact address: RTE 695 OVER GERELOCK RD
CAMILLUS, NY 13031
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NYSDOT
Owner/operator address: 333 E WASHINGTON ST
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 428-4400
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYSDOT
Owner/operator address: 333 E WASHINGTON ST
SYRACUSE, NY 13202
Owner/operator country: US

NYSDOT BIN 1093349 (Continued) **1000791006**

Owner/operator telephone: (315) 428-4400
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYSDOT BIN 1093349
Classification: Not a generator, verified

Date form received by agency: 11/25/1994
Facility name: NYSDOT BIN 1093349
Classification: Not a generator, verified

Date form received by agency: 12/14/1992
Facility name: NYSDOT BIN 1093349
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110008083714

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

13
NW
1/2-1
0.805 mi.
4252 ft.

OLD COUNTY YARD
6392 AIRPORT ROAD
CAMILLUS, NY

NY Spills **S109827500**
N/A

Relative:
Lower

Actual:
391 ft.

NY Spills:

Site ID:	416306
Facility Addr2:	Not reported
Facility ID:	0904162
Spill Number:	0904162
Facility Type:	ER
SWIS:	3420
Investigator:	MJROMOCK
Referred To:	Not reported
Spill Date:	7/9/2009
Reported to Dept:	7/9/2009
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/19/2009
Remediation Phase:	0
Date Entered In Computer:	7/9/2009
Spill Record Last Update:	8/19/2009
Spiller Name:	Not reported
Spiller Company:	OLD COUNTY YARD
Spiller Address:	6392 AIRPORT ROAD
Spiller City,St,Zip:	CAMILUS, NY
Spiller Company:	999
Contact Name:	GREG GELEWSKI
Contact Phone:	(315) 530-3566
DEC Region:	7
DER Facility ID:	365383
DEC Memo:	07/09/09 -called OCRA. Cleanup with sorbent material. EPS to be hired to remove contaminated material. 07/10/09 - Inspected and met w/ Operations Mngr., G. Gelewski. Cleanup completed. Soil stockpiled and to be removed by EP and S.
Remarks:	1554 The caller advised dispatch the spill was due to equipment failure a pump broke down. The clean up will be conducted by OCRRA. No water ways affected.

Material:

Site ID:	416306
Operable Unit ID:	1172619
Operable Unit:	01
Material ID:	2164487
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10

OLD COUNTY YARD (Continued) **S109827500**

Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

14
WNW
1/2-1
0.825 mi.
4354 ft.

OCRRA - AMBOY SITE **SWF/LF** **S108758354**
6296 AIRPORT ROAD **N/A**
CAMILLUS, NY 13209

Relative:
Lower

Actual:
390 ft.

SWF/LF:
Flag: ACTIVE
Region Code: 7
Phone Number: 3154532866
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: Greg Gelewski
Contact Address: 100 Elwood Davis Road
Contact Addr2: Not reported
Contact City,St,Zip: North Syracuse, NY 13212
Contact Email: ggelewski@ocrra.org
Contact Phone: 3154532866
Activity Desc: Composting - source separated organic waste
Activity Number: 34C05
Active: Yes
East Coordinate: Not reported
North Coordinate: Not reported
Accuracy Code: Not reported
Regulatory Status: Not reported
Waste Type: Food Processing Waste;Yard Waste;Food Scraps
Authorization #: 34C05
Authorization Date: Not reported
Expiration Date: Not reported

Flag: ACTIVE
Region Code: 7
Phone Number: 3154532866
Owner Name: Not reported

OCRRA - AMBOY SITE (Continued) **S108758354**

Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Greg Gelewski
Contact Address:	100 Elwood Davis Road
Contact Addr2:	Not reported
Contact City,St,Zip:	North Syracuse, NY 13212
Contact Email:	ggelewski@ocrra.org
Contact Phone:	3154532866
Activity Desc:	Composting - yard waste - registered
Activity Number:	34Y01
Active:	Yes
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	34Y01
Authorization Date:	Not reported
Expiration Date:	Not reported

E15 **ROBERT SPENCE** **LTANKS** **S100492616**
WNW **AIRPORT & WARNERS RD** **HIST LTANKS** **N/A**
1/2-1 **CAMILLUS, NY**
0.846 mi.
4467 ft. **Site 1 of 2 in cluster E**

Relative:
Lower

Actual:
390 ft.

LTANKS:

Site ID:	231346
Spill No:	9213632
Spill Date:	3/9/1993
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	3/31/1993
Facility Addr2:	Not reported
Cleanup Ceased:	3/31/1993
Cleanup Meets Standard:	False
SWIS:	3420
Investigator:	CFMANNES
Referred To:	Not reported
Reported to Dept:	3/9/1993
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	4/12/1993
Spill Record Last Update:	1/9/1995
Spiller Name:	Not reported
Spiller Company:	ROBERT D. SPENCE
Spiller Address:	Not reported

ROBERT SPENCE (Continued) **S100492616**

Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	190664
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks:	550 TANK-OLD GAS "SWISS CHEESE" ALL OVER REQUESTED 8021,8270 & LEAD, SOIL- CINDERS, SILT-ORANGE, SAND ON BOTTOM/2-3' BELOW TANK BOTTOM.

Material:

Site ID:	231346
Operable Unit ID:	980937
Operable Unit:	01
Material ID:	403400
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	9213632
Spill Date:	03/09/1993
Spill Time:	10:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Non Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	03/31/93
Cleanup Ceased:	03/31/93
Cleanup Meets Standard:	False
Investigator:	CM
Caller Name:	Not reported

ROBERT SPENCE (Continued) **S100492616**

Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 03/09/93
Reported to Department Time: 10:45
SWIS: 31
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: ROBERT D. SPENCE
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Other
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 04/12/93
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 01/09/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: 550 TANK-OLD GAS SWISS CHEESE ALL OVER REQUESTED 8021,8270 LEAD, SOIL-CINDERS, SILT-ORANGE, SAND ON BOTTOM/2-3 BELOW TANK BOTTOM.

16
NNW
1/2-1
0.849 mi.
4484 ft.

ARMSTRONG ROAD
3701 ARMSTRONG ROAD
SYRACUSE, NY

NY Spills **S108982662**
N/A

Relative:
Lower

Actual:
391 ft.

NY Spills:

Site ID:	393032
Facility Addr2:	Not reported
Facility ID:	0711533
Spill Number:	0711533
Facility Type:	ER
SWIS:	3432
Investigator:	menash
Referred To:	Not reported
Spill Date:	2/1/2008
Reported to Dept:	2/1/2008
CID:	444
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	2/3/2008
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	2/4/2008
Remediation Phase:	0
Date Entered In Computer:	2/1/2008
Spill Record Last Update:	2/4/2008
Spiller Name:	AVERY
Spiller Company:	Not reported
Spiller Address:	3701 ARMSTRONG ROAD
Spiller City,St,Zip:	SYRACUSE, NY
Spiller Company:	001
Contact Name:	AVERY
Contact Phone:	(315) 487-7039
DEC Region:	7
DER Facility ID:	342644
DEC Memo:	Supplied RP with pads. Clean up complete.
Remarks:	POSSIBLE LEAKING TANK AT ABOVE ADDRESS

Material:

Site ID:	393032
Operable Unit ID:	1150007
Operable Unit:	01
Material ID:	2140569
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

ARMSTRONG ROAD (Continued) **S108982662**

Tank Test:
- Site ID: Not reported
- Spill Tank Test: Not reported
- Tank Number: Not reported
- Tank Size: Not reported
- Test Method: Not reported
- Leak Rate: Not reported
- Gross Fail: Not reported
- Modified By: Not reported
- Last Modified: Not reported
- Test Method: Not reported

F17 **DUKE'S PLUMBING** **NY Spills** **S110140371**
SSE **5987 BELLE ISLE RD** **N/A**
1/2-1 **SYRACUSE, NY 13209**
0.867 mi.
4580 ft. **Site 1 of 3 in cluster F**

Relative:
Higher

Actual:
493 ft.

NY Spills:
- Site ID: 425004
- Facility Addr2: Not reported
- Facility ID: 0912132
- Spill Number: 0912132
- Facility Type: ER
- SWIS: 3420
- Investigator: KCKEMP
- Referred To: Not reported
- Spill Date: 2/18/2010
- Reported to Dept: 2/18/2010
- CID: Not reported
- Spill Cause: Housekeeping
- Water Affected: NONE
- Spill Source: Non Major Facility > 1,100 gal
- Spill Notifier: Police Department
- Cleanup Ceased: Not reported
- Cleanup Meets Std: False
- Last Inspection: Not reported
- Recommended Penalty: Penalty Not Recommended
- UST Trust: False
- Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
- Spill Closed Dt: 4/22/2010
- Remediation Phase: 0
- Date Entered In Computer: 2/19/2010
- Spill Record Last Update: 4/22/2010
- Spiller Name: BILL DUKE
- Spiller Company: DUKE'S PLUMBING
- Spiller Address: 5987 BELLE ISLE RD
- Spiller City,St,Zip: SYRACUSE, NY 13209
- Spiller Company: 999
- Contact Name: WILLIAM DUKE
- Contact Phone: (315) 475-4169
- DEC Region: 7
- DER Facility ID: 373914
- DEC Memo: Diesel and antifreeze leaking to ground from dumpster.
- Remarks: Not reported

DUKE'S PLUMBING (Continued) **S110140371**

Material:

Site ID:	425004
Operable Unit ID:	1180740
Operable Unit:	01
Material ID:	2174729
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

F18 **BIANCHI EXCAVATING, INC.** **HIST UST** **U003313513**
SSE **5987 BELLE ISLE RD.** **AST** **N/A**
1/2-1 **SYRACUSE, NY 13209** **HIST AST**
0.867 mi.
4580 ft. **Site 2 of 3 in cluster F**

Relative: Higher

Actual: 493 ft.

HIST UST:

PBS Number:	7-424471
SPDES Number:	Not reported
Emergency Contact:	PATSY BIANCHI
Emergency Telephone:	(315) 487-5431
Operator:	NEW TENANT
Operator Telephone:	(315) 487-5431
Owner Name:	PATSY BIANCHI
Owner Address:	601 SCARBORO DRIVE
Owner City,St,Zip:	SYRACUSE, NY 13209
Owner Telephone:	(315) 487-5431
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	PATSY BIANCHI
Mailing Address:	601 SCARBORO DRIVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYRACUSE, NY 13209
Mailing Contact:	Not reported
Mailing Telephone:	(315) 487-5431
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Facility Addr2:	Not reported
SWIS ID:	3115
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	11/21/2001
Expiration Date:	09/19/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	4700
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	SYRACUSE (C)
County Code:	31
Town or City:	15
Region:	7

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19780601
Capacity (gals):	1000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	08/01/1994
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19770601
Capacity (gals):	6000

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Submersible
Date Tested:	08/01/1989
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	08/01/1994
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	7
Site Status:	Administratively Closed
Facility Id:	7-424471
Program Type:	PBS
UTM X:	398497.51594999997
UTM Y:	4768256.9746099999
Expiration Date:	N/A

Affiliation Records:

Site Id:	45739
Affiliation Type:	Mail Contact
Company Name:	PATSY BIANCHI
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	601 SCARBORO DRIVE
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-5431
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	45739
Affiliation Type:	On-Site Operator
Company Name:	BIANCHI EXCAVATING, INC.
Contact Type:	Not reported
Contact Name:	NEW TENANT
Address1:	Not reported
Address2:	Not reported

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 487-5431
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 45739
Affiliation Type: Owner
Company Name: PATSY BIANCHI
Contact Type: Not reported
Contact Name: Not reported
Address1: 601 SCARBORO DRIVE
Address2: Not reported
City: SYRACUSE
State: NY
Zip Code: 13209
Country Code: 001
Phone: (315) 487-5431
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 45739
Affiliation Type: Emergency Contact
Company Name: PATSY BIANCHI
Contact Type: Not reported
Contact Name: PATSY BIANCHI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 487-5431
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
I03 - Overfill - Automatic Shut-Off
D02 - Pipe Type - Galvanized Steel
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
L09 - Piping Leak Detection - Exempt Suction Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
D02 - Pipe Type - Galvanized Steel
J01 - Dispenser - Submersible
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
C01 - Pipe Location - Aboveground
D02 - Pipe Type - Galvanized Steel
H00 - Tank Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I03 - Overfill - Automatic Shut-Off
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
I03 - Overfill - Automatic Shut-Off
G00 - Tank Secondary Containment - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
J02 - Dispenser - Suction
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
G01 - Tank Secondary Containment - Diking (Aboveground)
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None

Tank Info:

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Tank Number:	001
Tank Id:	222987
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	2/19/2010
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	002
Tank Id:	222988
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	003
Tank Id:	131680
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1994
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	6/1/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

Tank Number:	003
Tank Id:	222989
Tank Location:	3

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	2/19/2010
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	004
Tank Id:	222990
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	2/19/2010
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	004
Tank Id:	131681
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	7/1/1977
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	10/1/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

Tank Number:	005
Tank Id:	222991
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	200
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	005
Tank Id:	131682
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	3/1/1986
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

Tank Number:	006
Tank Id:	136642
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1994
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	6/1/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

Tank Number:	006
Tank Id:	222992
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5000

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 2/19/2010
Register: True
Modified By: KCKEMP
Last Modified: 2/19/2010

Tank Number: 008
Tank Id: 138314
Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Administratively Closed
Tank Model: Not reported
Pipe Model: Not reported
Install Date: 10/1/1994
Capacity Gallons: 4700
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: KCKEMP
Last Modified: 5/16/2008

Affiliation Records:
Site Id: 397808
Affiliation Type: On-Site Operator
Company Name: DUKES PLUMBING AND SEWER SERVICE INC
Contact Type: Not reported
Contact Name: WILLIAM DUKE
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: Not reported
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: KCKEMP
Date Last Modified: 5/15/2008

Site Id: 397808
Affiliation Type: Emergency Contact
Company Name: DUKES PLUMBING AND SEWER SERVICE INC
Contact Type: Not reported
Contact Name: WILLIAM DUKE
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: Not reported

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	5/15/2008

Site Id:	397808
Affiliation Type:	Mail Contact
Company Name:	DUKES PLUMBING AND SEWER SERVICE INC
Contact Type:	PRESIDENT
Contact Name:	WILLIAM DUKE
Address1:	5987 BELLE ISLE RD
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209-9624
Country Code:	001
Phone:	Not reported
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	6/30/2008

Site Id:	397808
Affiliation Type:	Owner
Company Name:	DUKES PLUMBING AND SEWER SERVICE INC
Contact Type:	PRESIDENT
Contact Name:	WILLIAM DUKE
Address1:	5987 BELLE ISLE RD
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209-9624
Country Code:	001
Phone:	Not reported
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	6/30/2008

Equipment Records:

J02 - Dispenser - Suction
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
K02 - Spill Prevention - Transfer Station Containment
J02 - Dispenser - Suction
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
K02 - Spill Prevention - Transfer Station Containment
L00 - Piping Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
G10 - Tank Secondary Containment - Impervious Underlayment
E00 - Piping Secondary Containment - None
E00 - Piping Secondary Containment - None

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
K02 - Spill Prevention - Transfer Station Containment
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
K02 - Spill Prevention - Transfer Station Containment
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
J02 - Dispenser - Suction
D00 - Pipe Type - No Piping
E00 - Piping Secondary Containment - None
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
G10 - Tank Secondary Containment - Impervious Underlayment
A00 - Tank Internal Protection - None
G10 - Tank Secondary Containment - Impervious Underlayment
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
E00 - Piping Secondary Containment - None
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
E00 - Piping Secondary Containment - None
L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
K02 - Spill Prevention - Transfer Station Containment
F00 - Pipe External Protection - None
L00 - Piping Leak Detection - None
D00 - Pipe Type - No Piping
L00 - Piping Leak Detection - None
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
K02 - Spill Prevention - Transfer Station Containment
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
L00 - Piping Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
I04 - Overfill - Product Level Gauge (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

F00 - Pipe External Protection - None

Tank Info:

Tank Number:	001
Tank Id:	222987
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	2/19/2010
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	002
Tank Id:	222988
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	003
Tank Id:	131680
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1994
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	6/1/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Tank Number:	003
Tank Id:	222989
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	2/19/2010
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	004
Tank Id:	222990
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	2/19/2010
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	004
Tank Id:	131681
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	7/1/1977
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	10/1/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

Tank Number:	005
Tank Id:	222991
Tank Location:	3

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	200
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	005
Tank Id:	131682
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	3/1/1986
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

Tank Number:	006
Tank Id:	136642
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	8/1/1994
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	6/1/2001
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

Tank Number:	006
Tank Id:	222992
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Tank Model:	Not reported

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	2/19/2010
Register:	True
Modified By:	KCKEMP
Last Modified:	2/19/2010

Tank Number:	008
Tank Id:	138314
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Administratively Closed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	10/1/1994
Capacity Gallons:	4700
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	5/16/2008

HIST AST:

PBS Number:	7-424471
SWIS Code:	3115
Operator:	NEW TENANT
Facility Phone:	(315) 487-5431
Facility Addr2:	Not reported
Facility Type:	OTHER
Emergency:	PATSY BIANCHI
Emergency Tel:	(315) 487-5431
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	PATSY BIANCHI
Owner Address:	601 SCARBORO DRIVE
Owner City,St,Zip:	SYRACUSE, NY 13209
Federal ID:	Not reported
Owner Tel:	(315) 487-5431
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	Not reported
Mailing Name:	PATSY BIANCHI
Mailing Address:	601 SCARBORO DRIVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYRACUSE, NY 13209
Mailing Telephone:	(315) 487-5431
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.

Certification Flag:	False
Certification Date:	11/21/2001
Expiration:	09/19/2002
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	4700
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	SYRACUSE (C)
County Code:	31
Town or City Code:	15
Region:	7

Tank ID:	003
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	Closed-Removed
Install Date:	19940801
Capacity (Gal):	1000
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Aboveground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	08
Leak Detection:	01
Overfill Protection:	03
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	06/01/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	004
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	Closed-Removed
Install Date:	19770701
Capacity (Gal):	275
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Aboveground

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	None
Leak Detection:	01
Overfill Protection:	03
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	10/01/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	005
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	Closed-Removed
Install Date:	19860301
Capacity (Gal):	275
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	None
Leak Detection:	0
Overfill Protection:	Not reported
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	006
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	Closed-Removed
Install Date:	19940801
Capacity (Gal):	1000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Aboveground
Pipe Type:	GALVANIZED STEEL

BIANCHI EXCAVATING, INC. (Continued) **U003313513**

Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	08
Leak Detection:	01
Overfill Protection:	03
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	06/01/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	008
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	19941001
Capacity (Gal):	4700
Product Stored:	USED OIL (FUEL)
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	00
Pipe Location:	Aboveground
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

F19 **BIANCHI EXCAVATING, INC.** **UST** **U004079832**
SSE **5987 BELLE ISLE RD** **N/A**
1/2-1 **SYRACUSE, NY 13209**
0.867 mi.
4580 ft. **Site 3 of 3 in cluster F**

Relative: Higher

Actual: 493 ft.

UST:

Facility Id:	7-424471
Region:	STATE
DEC Region:	7
Site Status:	Administratively Closed
Program Type:	PBS
Expiration Date:	N/A
UTM X:	398497.51594999997

BIANCHI EXCAVATING, INC. (Continued) **U004079832**

UTM Y: 4768256.9746099999

Affiliation Records:

Site Id:	45739
Affiliation Type:	Mail Contact
Company Name:	PATSY BIANCHI
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	601 SCARBORO DRIVE
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-5431
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	45739
Affiliation Type:	On-Site Operator
Company Name:	BIANCHI EXCAVATING, INC.
Contact Type:	Not reported
Contact Name:	NEW TENANT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-5431
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	45739
Affiliation Type:	Owner
Company Name:	PATSY BIANCHI
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	601 SCARBORO DRIVE
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-5431
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id: 45739

BIANCHI EXCAVATING, INC. (Continued) **U004079832**

Affiliation Type:	Emergency Contact
Company Name:	PATSY BIANCHI
Contact Type:	Not reported
Contact Name:	PATSY BIANCHI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-5431
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
I03 - Overfill - Automatic Shut-Off
D02 - Pipe Type - Galvanized Steel
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
L09 - Piping Leak Detection - Exempt Suction Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
D00 - Pipe Type - No Piping
D02 - Pipe Type - Galvanized Steel
J01 - Dispenser - Submersible
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
C01 - Pipe Location - Aboveground
D02 - Pipe Type - Galvanized Steel
H00 - Tank Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
J02 - Dispenser - Suction

BIANCHI EXCAVATING, INC. (Continued) **U004079832**

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I03 - Overfill - Automatic Shut-Off
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
I03 - Overfill - Automatic Shut-Off
G00 - Tank Secondary Containment - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
J02 - Dispenser - Suction
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
G01 - Tank Secondary Containment - Diking (Aboveground)
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None

Tank Info:

Site ID:	45739
Tank Number:	001
Tank ID:	131678
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	6/1/1978
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	8/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	45739
Tank Number:	002
Tank ID:	131679
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	6/1/1977
Capacity Gallons:	6000
Tightness Test Method:	03
Next Test Date:	Not reported
Date Tank Closed:	8/1/1994

BIANCHI EXCAVATING, INC. (Continued) **U004079832**

Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	8/1/1989
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

E20 **NYSDOT** **LTANKS** **S100158223**
WNW **AIRPORT RD&SOUTH DEY RD.** **HIST LTANKS** **N/A**
1/2-1 **SYRACUSE, NY**
0.884 mi.
4666 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
388 ft.

LTANKS:

Site ID:	202052
Spill No:	8710897
Spill Date:	3/29/1988
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Not reported
Spill Closed Dt:	3/22/1989
Facility Addr2:	Not reported
Cleanup Ceased:	3/20/1989
Cleanup Meets Standard:	True
SWIS:	3415
Investigator:	AJMARSCH
Referred To:	Not reported
Reported to Dept:	3/29/1988
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	4/1/1988
Spill Record Last Update:	3/22/1989
Spiller Name:	Not reported
Spiller Company:	BERNIE SALSBURY
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	168077
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "JM" 03/22/89: THIS WAS THE RETEST. SEE SPILL # 87-10641 FOR ORIGINAL TEST. THE LINE WAS REPAIRED. THE TANK IS TIGHT. THE SYSTEM IS BACK IN SERVICE.
Remarks:	4000 GAL TANK -.137 GPH ACTION UNKNOWN

Material:

Site ID:	202052
Operable Unit ID:	915659
Operable Unit:	01

NYSDOT (Continued) **S100158223**

Material ID: 462646
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

HIST LTANKS:
Region of Spill: 7
Spill Number: 8710897
Spill Date: 03/29/1988
Spill Time: 17:45
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Other Non Commercial/Industrial
Spill Class: Not reported
Spill Closed Dt: 03/22/89
Cleanup Ceased: 03/20/89
Cleanup Meets Standard: True
Investigator: JM
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 03/29/88
Reported to Department Time: 18:10
SWIS: 31
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: BERNIE SALSBURY
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /

NYSDOT (Continued) **S100158223**

Facility Contact: Not reported
Facility Phone: (315) 458-1910
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 04/01/88
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 03/22/89
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 03/22/89: THIS WAS THE RETEST. SEE SPILL 87-10641 FOR ORIGINAL TEST. THE LINE WAS REPAIRED. THE TANK IS TIGHT. THE SYSTEM IS BACK IN SERVICE.
Spill Cause: 4000 GAL TANK -.137 GPH ACTION UNKNOWN

21
WNW
1/2-1
0.997 mi.
5262 ft.

CAMILLUS DOT GARAGE **LTANKS** **S100129239**
AIRPORT ROAD **HIST LTANKS** **N/A**
AMBOY (CAMILLUS), NY

Relative:
Higher

Actual:
402 ft.

LTANKS:
Site ID: 66440
Spill No: 8706677
Spill Date: 11/5/1987
Spill Cause: Tank Test Failure
Spill Source: Institutional, Educational, Gov., Other
Spill Class: Not reported
Spill Closed Dt: 12/7/1987
Facility Addr2: Not reported
Cleanup Ceased: 12/7/1987
Cleanup Meets Standard: True

CAMILLUS DOT GARAGE (Continued) **S100129239**

SWIS:	3400
Investigator:	AJMARSCH
Referred To:	Not reported
Reported to Dept:	11/5/1987
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	12/1/1987
Spill Record Last Update:	6/14/1988
Spiller Name:	Not reported
Spiller Company:	ONONDAGA COUNTY
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	63610
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "JM" / / : WILL EXCAVATE, ISOLATE AND RETEST. / / : WILL EXCAVATE, ISOLATE AND RETEST. TESTED AGAIN ON 11/06/87 & HAD FAILURE RATE OF .047 IN LINE. NEW PIPING TO BE INSTALLED. / / : PIPING WAS NOT REPLACED. TANK IS TIGHT. PIPING AND TANK REMOVED ON 11/21/87.TE OF .047 IN LINE. NEW PIPING TO BE INSTALLED.
Remarks:	5,000 GAL TANK. UNKNOWN FAILURE RATE.

Material:

Site ID:	66440
Operable Unit ID:	910386
Operable Unit:	01
Material ID:	465681
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported

CAMILLUS DOT GARAGE (Continued) **S100129239**

Test Method: Not reported

HIST LTANKS:
Region of Spill: 7
Spill Number: 8706677
Spill Date: 11/05/1987
Spill Time: 20:30
Spill Cause: Tank Test Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Other Non Commercial/Industrial
Spill Class: Not reported
Spill Closed Dt: 12/07/87
Cleanup Ceased: 12/07/87
Cleanup Meets Standard: True
Investigator: JM
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 11/05/87
Reported to Department Time: 20:52
SWIS: 31
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: ONONDAGA COUNTY
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Tank Tester
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 12/01/87
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 06/14/88
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported

CAMILLUS DOT GARAGE (Continued) **S100129239**

Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: / / : WILL EXCAVATE, ISOLATE AND RETEST. / / : WILL EXCAVATE, ISOLATE AND RETEST. TESTED AGAIN ON 11/06/87 HAD FAILURE RATE OF .047 IN LINE. NEW PIPING TO BE INSTALLED. / / : PIPING WAS NOT REPLACED. TANK IS TIGHT. PIPING AND TANK REMOVED ON11/21/87.TE OF .047 IN LINE. NEW PIPING TO BE INSTALLED.
Spill Cause: 5,000 GAL TANK. UNKNOWN FAILURE RATE.

22
NNE
> 1
1.063 mi.
5614 ft.

Relative:
Higher

Actual:
457 ft.

ARMSTRONG ROAD **NY Spills** **S103567400**
280 ARMSTRONG **NY Hist Spills** **N/A**
SYRACUSE, NY

NY Spills:
Site ID: 276064
Facility Addr2: Not reported
Facility ID: 9301705
Spill Number: 9301705
Facility Type: ER
SWIS: 3415
Investigator: CFMANNES
Referred To: Not reported
Spill Date: 5/5/1993
Reported to Dept: 5/6/1993
CID: Not reported
Spill Cause: Other
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Affected Persons
Cleanup Ceased: 12/31/1993
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: Penalty Recommended
UST Trust: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 12/31/1993
Remediation Phase: 0
Date Entered In Computer: 5/17/1993
Spill Record Last Update: 1/9/1995
Spiller Name: Not reported
Spiller Company: LABARGE BROTHERS
Spiller Address: 5947 E. MOLLOY ROAD

ARMSTRONG ROAD (Continued) **S103567400**

Spiller City,St,Zip:	SYRACUSE, NY 13211
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	224443
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" 05/07/93: MR. POLIFRONI HAD A FILL WANTED SIGN OUT NEAR THE ROAD, LABARGE UNLOAD APPROX. 60CUYDS. OF PETROLEUM CONTAMINATED SOIL, ORIGINATING FROM 300 BRIDGE STREET IN SOLVAY,(BALLARD CONSTRUCTION). 09/28/95: This is additional information about material spilled from the translation of the old spill file: PETRO-CONTAM. SOIL.
Remarks:	HIRED LABARGE BROS. FOR FILL WHICH THEY DELIVERED YEASTERDAY. THERE IS A VERY STRONG PETROLEUM ODOR TO IT. SOME ONE WILL BE HOME AFTER 2:30. REFER TO SPILL NO. 9301737 FOR MORE INFO.

Material:

Site ID:	276064
Operable Unit ID:	983736
Operable Unit:	01
Material ID:	398871
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	9301705
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	05/05/1993 12:00
Reported to Dept Date/Time:	05/06/93 11:30
SWIS:	31

ARMSTRONG ROAD (Continued) **S103567400**

Spiller Name: LABARGE BROTHERS
Spiller Contact: Not reported
Spiller Phone: (315) 454-4441
Spiller Address: 5947 E. MOLLOY ROAD
Spiller City,St,Zip: SYRACUSE, NY 13211
Spill Cause: Other
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: 12/31/93
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Recommended
Spiller Cleanup Dt: 05/08/93
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 12/31/93
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 05/17/93
Date Spill Entered In Computer Data File: Not reported
Update Date: 01/09/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 05/07/93: MR. POLIFRONI HAD A FILL WANTED SIGN OUT NEAR THE ROAD, LABARGE UNLOAD APPROX. 60CUYDS. OF PETROLEUM CONTAMINATED SOIL, ORIGINATING FROM 300 BRIDGE STREET IN SOLVAY, BALLARD CONSTRUCTION). 09/28/95: This is additional information about material spilled from the translation of the old spill file: PETRO-CONTAM. SOIL.
Remark: HIRED LABARGE BROS. FOR FILL WHICH THEY DELIVERED YEASTERDAY. THERE IS A VERY STRONG PETROLEUM ODOR TO IT. SOME ONE WILL BE HOME AFTER 2:30. REFER TO SPILL NO. 9301737 FOR MORE INFO.

23
SSE
> 1
1.108 mi.
5852 ft.

HORNADY DR
306 HORNADY DR
CAMILLUS, NY

NY Spills **S102168141**
NY Hist Spills **N/A**

Relative:
Higher

Actual:
479 ft.

NY Spills:

Site ID:	140552
Facility Addr2:	Not reported
Facility ID:	9509090
Spill Number:	9509090
Facility Type:	ER
SWIS:	3400
Investigator:	HDWARNER
Referred To:	Not reported
Spill Date:	10/23/1995
Reported to Dept:	10/23/1995
CID:	349
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	10/23/1995
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	10/30/1995
Remediation Phase:	0
Date Entered In Computer:	10/23/1995
Spill Record Last Update:	12/12/1995
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	120030
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "HW" 10-30-95: SITE VISIT UNCOVERED SLIGHT PETROLEUM ODOR AT STORM WATER OUTFALL. HEAVY RAINS MUST HAVE WASHED SOME RESIDUAL OUT OF SYSTEM. NO RECOVERABLE CONTAMINATION, PROPERTY OWNER WILL MONITOR.
Remarks:	IN REAR OF HOUSES - SMELLS LIKE PAINT THINNER

Material:

Site ID:	140552
Operable Unit ID:	1019658
Operable Unit:	01
Material ID:	360056
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Gallons

HORNADY DR (Continued) **S102168141**

Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9509090
Investigator: HW
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 10/23/1995 18:00
Reported to Dept Date/Time: 10/23/95 18:30
SWIS: 31
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Fire Department
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: 10/23/95
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt: 10/30/95
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 10/23/95

HORNADY DR (Continued) **S102168141**

Date Spill Entered In Computer Data File: Not reported
Update Date: 12/12/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN MATERIAL
Class Type: UNKNOWN MATERIAL
Times Material Entry In File: 9140
CAS Number: Not reported
Last Date: 19941109
DEC Remarks: 10-30-95: SITE VISIT UNCOVERED SLIGHT PETROLEUM ODOR AT STORM WATER OUTFALL. HEAVY RAINS MUST HAVE WASHED SOME RESIDUAL OUT OF SYSTEM. NO RECOVERABLE CONTAMINATION, PROPERTY OWNER WILL MONITOR.
Remark: IN REAR OF HOUSES - SMELLS LIKE PAINT THINNER

24
East
> 1
1.113 mi.
5877 ft.

Relative:
Lower

Actual:
379 ft.

ALLIED CHEMICAL WASTE BEDS 12-15 **SWF/LF** **S105842431**
BELLE ISLE ROAD **N/A**
GEDDES, NY 13209

SWF/LF:
Flag: INACTIVE
Region Code: 7
Phone Number: 3154314443
Owner Name: Not reported
Owner Type: Not reported
Owner Address: Not reported
Owner Addr2: Not reported
Owner City,St,Zip: Not reported
Owner Email: Not reported
Owner Phone: Not reported
Contact Name: Not reported
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: Landfill - industrial/commercial
Activity Number: 34N21
Active: No
East Coordinate: 400045
North Coordinate: 4769269
Accuracy Code: Not reported
Regulatory Status: None

ALLIED CHEMICAL WASTE BEDS 12-15 (Continued) **S105842431**

Waste Type: Construction & Demolition Debris;Sewage Treatment Plant Sludge;Ash (Coal-Bottom);Ash (Coal-Fly);Brine (Calcium Chloride);Water (Waste);Solvay process waste
Authorization #: Not reported
Authorization Date: Not reported
Expiration Date: 8/19/1985

G25 **GUY SALVATERRA** **NY Spills** **S103275642**
WSW **3475 WARNERS RD** **NY Hist Spills** **N/A**
> 1 **CAMILLUS, NY**
1.120 mi.
5911 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
404 ft.

NY Spills:
Site ID: 257279
Facility Addr2: Not reported
Facility ID: 9804100
Spill Number: 9804100
Facility Type: ER
SWIS: 3420
Investigator: CFMANNES
Referred To: Not reported
Spill Date: 7/1/1998
Reported to Dept: 7/1/1998
CID: 384
Spill Cause: Housekeeping
Water Affected: Not reported
Spill Source: Gasoline Station
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: 8/15/1998
Recommended Penalty: Penalty Not Recommended
UST Trust: True
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 9/21/2000
Remediation Phase: 0
Date Entered In Computer: 7/1/1998
Spill Record Last Update: 9/22/2000
Spiller Name: GUY SALVATERRA
Spiller Company: GUY SALVATERRA
Spiller Address: 3475 WARNERS RD
Spiller City,St,Zip: CAMILLUS, NY 13031-
Spiller Company: 001
Contact Name: GUY SALVATERRA
Contact Phone: (315) 487-7427
DEC Region: 7
DER Facility ID: 210657
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks: WHILE REMOVING OLD TANKS CALLER DISCOVERED GROUND CONTAMINATION. CALLER IS NOW DIGGING UP TANKS AND WILL BE DOING CLEAN UP.

Material:
Site ID: Not reported
Operable Unit ID: Not reported
Operable Unit: Not reported

GUY SALVATERRA (Continued) **S103275642**

Material ID:	Not reported
Material Code:	Not reported
Material Name:	Not reported
Case No.:	Not reported
Material FA:	Not reported
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	9804100
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	07/01/1998 09:00
Reported to Dept Date/Time:	07/01/98 09:07
SWIS:	31
Spiller Name:	GUY SALVATERRA
Spiller Contact:	GUY SALVATERRA
Spiller Phone:	(315) 487-7427
Spiller Contact:	GUY SALVATERRA
Spiller Phone:	(315) 487-7427
Spiller Address:	3475 WARNERS RD
Spiller City,St,Zip:	CAMILLUS, NY 13031-
Spill Cause:	Housekeeping
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	05
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	08/15/98
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /

GUY SALVATERRA (Continued) **S103275642**

Invstgn Complete: / /
UST Involvement: True
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 09/21/00
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 07/01/98
Date Spill Entered In Computer Data File: Not reported
Update Date: 09/22/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Not reported
Quantity Spilled: Not reported
Unkonwn Quantity Spilled: Not reported
Units: Not reported
Quantity Recovered: Not reported
Unkonwn Quantity Recovered: Not reported
Material: Not reported
Class Type: Not reported
Times Material Entry In File: Not reported
CAS Number: Not reported
Last Date: Not reported
DEC Remarks: Not reported
Remark: WHILE REMOVING OLD TANKS CALLER DISCOVERED GROUND CONTAMINATION. CALLER IS NOW DIGGING UP TANKS AND WILL BE DOING CLEAN UP.

G26 **NY Spills** **S105234848**
WSW **3475 WARNERS RD** **NY Hist Spills** **N/A**
> 1 **WARNERS, NY**
1.120 mi.
5913 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
404 ft.

NY Spills:
Site ID: 257278
Facility Addr2: Not reported
Facility ID: 0107809
Spill Number: 0107809
Facility Type: ER
SWIS: 3400
Investigator: CFMANNES
Referred To: Not reported
Spill Date: 10/31/2001
Reported to Dept: 10/31/2001
CID: 396
Spill Cause: Unknown
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Other
Cleanup Ceased: Not reported

(Continued) **S105234848**

Cleanup Meets Std:	False
Last Inspection:	11/2/2001
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	12/7/2001
Remediation Phase:	0
Date Entered In Computer:	10/31/2001
Spill Record Last Update:	12/7/2001
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	CHRIS READ
Contact Phone:	(315) 428-3631
DEC Region:	7
DER Facility ID:	281854
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks:	found underground pipe that poss was for fuel dispencing...they are working at an old gas station. local dec office has been notified.

Material:

Site ID:	257278
Operable Unit ID:	845843
Operable Unit:	01
Material ID:	529071
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	0107809
Investigator:	CM

(Continued) **S105234848**

Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 10/31/2001 10:30
Reported to Dept Date/Time: 10/31/01 11:03
SWIS: 31
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: ( ) -
Spiller Contact: CHRIS READ
Spiller Phone: (315) 428-3631
Spiller Address: Not reported
Spiller City,St,Zip: -
Spill Cause: Unknown
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Other
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: 11/02/01
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt: 12/07/01
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 10/31/01
Date Spill Entered In Computer Data File: Not reported
Update Date: 12/07/01
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Raw Sewage
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN MATERIAL
Class Type: UNKNOWN MATERIAL

(Continued) **S105234848**

Times Material Entry In File: 9140
CAS Number: Not reported
Last Date: 19941109
DEC Remarks: Not reported
Remark: found underground pipe that poss was for fuel dispencing...they are working at an old gas station. local dec office has been notified.

H27 **BOCHINO RESIDENCE** **NY Spills** **S102126149**
NNE **157 ARMSTRONG ROAD** **NY Hist Spills** **N/A**
> 1 **LAKELAND, NY**
1.131 mi.
5974 ft. **Site 1 of 4 in cluster H**

Relative:
Higher

Actual:
422 ft.

NY Spills:
Site ID: 108203
Facility Addr2: Not reported
Facility ID: 9502916
Spill Number: 9502916
Facility Type: ER
SWIS: 3400
Investigator: CFMANNES
Referred To: Not reported
Spill Date: 6/5/1995
Reported to Dept: 6/5/1995
CID: Not reported
Spill Cause: Housekeeping
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Affected Persons
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: 6/5/1995
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/31/1995
Remediation Phase: 0
Date Entered In Computer: 6/8/1995
Spill Record Last Update: 11/28/1997
Spiller Name: Not reported
Spiller Company: NEIGHBOR
Spiller Address: ARMSTRONG RD
Spiller City,St,Zip: LAKELAND, ZZ
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 7
DER Facility ID: 95116
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" 06/05/95: I INFORMED MR. BOCHINO TO HAVE HIM OR HIS ATTORNY CALL ME ONCE A SURVEY OR DOCUMENT THAT INDICATES PROPERTY BOUNDRIES. 09/28/95: This is additional information about material spilled from the translation of the old spill file: STAINING OF SOIL.
Remarks: REVISTED SITE THERE IS A PRIOR SPILL COMPLAINT. DUMPING OF WASTE OIL ON PROPERTY. THERE IS A QUESTION OF WHERE PROPERTY LINES ARE LOCATED.

Material:

BOCHINO RESIDENCE (Continued) **S102126149**

Site ID: 108203
Operable Unit ID: 1014150
Operable Unit: 01
Material ID: 553805
Material Code: 0022
Material Name: Waste Oil/Used Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9502916
Investigator: CM
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 06/05/1995 11:00
Reported to Dept Date/Time: 06/05/95 11:00
SWIS: 31
Spiller Name: NEIGHBOR
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: ARMSTRONG RD
Spiller City,St,Zip: LAKELAND
Spill Cause: Housekeeping
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 09
Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: 06/05/95
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /

BOCHINO RESIDENCE (Continued) **S102126149**

Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 10/31/95
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 06/08/95
Date Spill Entered In Computer Data File: Not reported
Update Date: 11/28/97
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: WASTE OIL
Class Type: WASTE OIL
Times Material Entry In File: 9509
CAS Number: Not reported
Last Date: 19940927
DEC Remarks: 06/05/95: I INFORMED MR. BOCHINO TO HAVE HIM OR HIS ATTORNY CALL ME ONCE A SURVEY OR DOCUMENT THAT INDICATES PROPERTY BOUNDRIES. 09/28/95: This is additional information about material spilled from the translation of the old spill file: STAININGOF SOIL.
Remark: REVISTED SITE THERE IS A PRIOR SPILL COMPLAINT. DUMPING OF WASTE OIL ON PROPERTY. THERE IS A QUESTION OF WHERE PROPERTY LINES ARE LOCATED.

H28 **ARMSTRONG ROAD** **NY Spills** **S102125637**
NNE **157 ARMSTRONG RD** **NY Hist Spills** **N/A**
> 1 **LAKELAND, NY**
1.131 mi.
5974 ft. **Site 2 of 4 in cluster H**

Relative:
Higher

Actual:
422 ft.

NY Spills:
Site ID: 92926
Facility Addr2: Not reported
Facility ID: 9401666
Spill Number: 9401666
Facility Type: ER
SWIS: 3400
Investigator: MENASH
Referred To: Not reported
Spill Date: 5/4/1994
Reported to Dept: 5/4/1994
CID: Not reported
Spill Cause: Unknown

ARMSTRONG ROAD (Continued) **S102125637**

Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	5/5/1994
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	5/5/1994
Remediation Phase:	0
Date Entered In Computer:	5/5/1994
Spill Record Last Update:	8/19/1994
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	83328
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MN"
Remarks:	WHILE MOWING LAWN CALLER DISCOVERED OIL ON PROPERTY.

Material:

Site ID:	92926
Operable Unit ID:	995344
Operable Unit:	01
Material ID:	385418
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7

ARMSTRONG ROAD (Continued) **S102125637**

Spill Number:	9401666
Investigator:	MN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	05/04/1994 12:00
Reported to Dept Date/Time:	05/04/94 14:10
SWIS:	31
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	12
Spill Notifier:	Affected Persons
PBS Number:	Not reported
Cleanup Ceased:	05/05/94
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	05/05/94
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	05/05/94
Date Spill Entered In Computer Data File:	Not reported
Update Date:	08/19/94
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	UNKNOWN PETROLEUM
Class Type:	UNKNOWN PETROLEUM
Times Material Entry In File:	16414

ARMSTRONG ROAD (Continued) **S102125637**

CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: WHILE MOWING LAWN CALLER DISCOVERED OIL ON PROPERTY.

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29 **NIAGARA MOHAWK** **LTANKS** **S106972628**
SE **101 GEMINI PLACE** **N/A**
> 1 **SYRACUSE, NY**
1.133 mi.
5982 ft.

Relative:
Higher

Actual:
449 ft.

LTANKS:

Site ID:	346372
Spill No:	0502078
Spill Date:	5/20/2005
Spill Cause:	Tank Failure
Spill Source:	Non Major Facility > 1,100 gal
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/8/2005
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	3415
Investigator:	HDWARNER
Referred To:	Not reported
Reported to Dept:	5/20/2005
CID:	409
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/20/2005
Spill Record Last Update:	8/8/2005
Spiller Name:	D PHILLIPS
Spiller Company:	PADMOUNT TRANSFORMER
Spiller Address:	101 GEMINI PLACE
Spiller City,St,Zip:	SYRACUSE, NY
Spiller County:	001
Spiller Contact:	D PHILLIPS
Spiller Phone:	(315) 452-7533
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	292629
DEC Memo:	Not reported
Remarks:	CLEANED IT UP AND REPLACED THE SOIL WITH TOPSOIL.

Material:

Site ID:	346372
Operable Unit ID:	1104143
Operable Unit:	01
Material ID:	584304
Material Code:	0020A
Material Name:	TRANSFORMER OIL

NIAGARA MOHAWK (Continued) **S106972628**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	2
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

H30 **O'BRIEN RESIDENCE** **NY Spills** **S104503038**
NNE **155 ARMSTRONG ROAD** **NY Hist Spills** **N/A**
> 1 **GEDDES, NY**
1.133 mi.
5985 ft. **Site 3 of 4 in cluster H**

Relative:
Higher

Actual:
422 ft.

NY Spills:

Site ID:	247353
Facility Addr2:	Not reported
Facility ID:	9700711
Spill Number:	9700711
Facility Type:	ER
SWIS:	3432
Investigator:	CFMANNES
Referred To:	Not reported
Spill Date:	4/6/1997
Reported to Dept:	4/16/1997
CID:	205
Spill Cause:	Deliberate
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	8/31/1997
Remediation Phase:	0
Date Entered In Computer:	4/16/1997
Spill Record Last Update:	4/16/1997
Spiller Name:	PHYLLIS & TERRY O'BRIEN
Spiller Company:	O'BRIEN RESIDENCE

O'BRIEN RESIDENCE (Continued) **S104503038**

Spiller Address:	155 ARMSTRONG ROAD
Spiller City,St,Zip:	GEDDES, NY
Spiller Company:	001
Contact Name:	PHYLLIS & TERRY O'BRIEN
Contact Phone:	(315) 487-7456
DEC Region:	7
DER Facility ID:	203099
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks:	CALLER STATED THAT HE OWNS PART OF PROPERTY THAT O'BRIEN HAS THIER RESIDENCE ON.CALLER WITNESSED MR.O'BRIEN DUMPING MOTOR OIL ON DRIVEWAY.CALLER STATES THAT HE OWNS THAT LAND. PICTURES HAVE BEEN TAKEN. **FAXED FROM REGION.

Material:

Site ID:	Not reported
Operable Unit ID:	Not reported
Operable Unit:	Not reported
Material ID:	Not reported
Material Code:	Not reported
Material Name:	Not reported
Case No.:	Not reported
Material FA:	Not reported
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	9700711
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	04/06/1997 12:00
Reported to Dept Date/Time:	04/16/97 13:06
SWIS:	31
Spiller Name:	O'BRIEN RESIDENCE
Spiller Contact:	PHYLLIS & TERRY O'BRIEN

O'BRIEN RESIDENCE (Continued) **S104503038**

Spiller Phone: (315) 487-7456
Spiller Contact: PHYLLIS & TERRY O'BRIEN
Spiller Phone: (315) 487-7456
Spiller Address: 155 ARMSTRONG ROAD
Spiller City,St,Zip: GEDDES, NY
Spill Cause: Deliberate
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 05
Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt: 08/31/97
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 04/16/97
Date Spill Entered In Computer Data File: Not reported
Update Date: 04/16/97
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Not reported
Quantity Spilled: Not reported
Unkonwn Quantity Spilled: Not reported
Units: Not reported
Quantity Recovered: Not reported
Unkonwn Quantity Recovered: Not reported
Material: Not reported
Class Type: Not reported
Times Material Entry In File: Not reported
CAS Number: Not reported
Last Date: Not reported
DEC Remarks: Not reported
Remark: CALLER STATED THAT HE OWNS PART OF PROPERTY THAT O BRIEN HAS THIER RESIDENCE ON.CALLER WITNESSED MR.O BRIEN DUMPING MOTOR OIL ON DRIVEWAY.CALLER STATES THAT HE OWNS THAT LAND. PICTURES HAVE BEEN TAKEN. **FAXED FROM REGION.

H31 **155 ARMSTRONG RD** **NY Spills** **S102125647**
NNE **155/157 ARMSTRONG RD** **NY Hist Spills** **N/A**
> 1 **GEDDES, NY**
1.133 mi.
5985 ft. **Site 4 of 4 in cluster H**

Relative:
Higher

Actual:
422 ft.

NY Spills:

Site ID:	204929
Facility Addr2:	Not reported
Facility ID:	9402081
Spill Number:	9402081
Facility Type:	ER
SWIS:	3432
Investigator:	CFMANNES
Referred To:	Not reported
Spill Date:	5/5/1994
Reported to Dept:	5/5/1994
CID:	Not reported
Spill Cause:	Housekeeping
Water Affected:	Not reported
Spill Source:	Passenger Vehicle
Spill Notifier:	Affected Persons
Cleanup Ceased:	5/30/1994
Cleanup Meets Std:	True
Last Inspection:	5/5/1994
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	5/30/1994
Remediation Phase:	0
Date Entered In Computer:	5/13/1994
Spill Record Last Update:	1/11/1995
Spiller Name:	Not reported
Spiller Company:	OBRIEN RESIDENCE
Spiller Address:	155 ARMSTRONG RD
Spiller City,St,Zip:	LAKELAND, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	170244
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" 05/05/94: MR.BOCCHINO CLAIMS HE OWNS PROPERTY WHERE THE PROBLEMS ARE. I ASKED HIM IF HE HAS NOTIFIED THE CODE ENFORCEMENT. THERE IS A QUESTION WHERE PROP. BOUNDRIES EXIST.I SPOKE W/CODE ENC. A PROPER SURVEY NOT. 09/28/95: This is additional information about material spilled from the translation of the old spill file: FROM A LEAKY OILPAN.
Remarks:	CLAIMS NEIGHBOR IS DUMPING OIL AND OTHER DEBRIS(IE STONE,BRICK,COMPOST/ORGANICS) ONTO HIS PROPERTY.

Material:

Site ID:	204929
Operable Unit ID:	999149
Operable Unit:	01
Material ID:	385822
Material Code:	0022
Material Name:	Waste Oil/Used Oil

155 ARMSTRONG RD (Continued) **S102125647**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	9402081
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	05/05/1994 14:00
Reported to Dept Date/Time:	05/05/94 14:30
SWIS:	31
Spiller Name:	OBRIEN RESIDENCE
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	155 ARMSTRONG RD
Spiller City,St,Zip:	LAKELAND, NY
Spill Cause:	Housekeeping
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	06
Spill Notifier:	Affected Persons
PBS Number:	Not reported
Cleanup Ceased:	05/30/94
Cleanup Meets Std:	True
Last Inspection:	05/05/94
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.

155 ARMSTRONG RD (Continued) **S102125647**

Spill Closed Dt: 05/30/94
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 05/13/94
Date Spill Entered In Computer Data File: Not reported
Update Date: 01/11/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 2
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: WASTE OIL
Class Type: WASTE OIL
Times Material Entry In File: 9509
CAS Number: Not reported
Last Date: 19940927
DEC Remarks: 05/05/94: MR.BOCCHINO CLAIMS HE OWNS PROPERTY WHERE THE PROBLEMS ARE. I ASKED HIM IF HE HAS NOTIFIED THE CODE ENFORCEMENT. THERE IS A QUESTION WHERE PROP. BOUNDRIES EXIST.I SPOKE W/CODE ENC. A PROPER SURVEY NOT. 09/28/95: This is additional information about material spilled from the translation of the old spill file: FROM A LEAKY OILPAN.
Remark: CLAIMS NEIGHBOR IS DUMPING OIL AND OTHER DEBRIS IE STONE,BRICK,COMPOST/ORGANICS) ONTO HIS PROPERTY.

32
SSW
> 1
1.139 mi.
6015 ft.

Relative:
Higher

Actual:
496 ft.

3703 WARNERS RD
CAMILLUS, NY

NY Spills **S104787139**
NY Hist Spills **N/A**

NY Spills:
Site ID: 225418
Facility Addr2: Not reported
Facility ID: 0004385
Spill Number: 0004385
Facility Type: ER
SWIS: 3420
Investigator: CFMANNES
Referred To: Not reported
Spill Date: 7/12/2000
Reported to Dept: 7/12/2000
CID: 396
Spill Cause: Equipment Failure
Water Affected: Not reported
Spill Source: Commercial Vehicle
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported

(Continued) **S104787139**

Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	7/12/2000
Remediation Phase:	0
Date Entered In Computer:	7/12/2000
Spill Record Last Update:	7/27/2000
Spiller Name:	Not reported
Spiller Company:	NIAGARA MOHAWK
Spiller Address:	ERIE BLVD
Spiller City,St,Zip:	SYRACUSE, NY -
Spiller Company:	001
Contact Name:	CHARLES LORENZ
Contact Phone:	(315) 460-2421
DEC Region:	7
DER Facility ID:	186083
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks:	hyd. line on line truck broke...spill cleaned up.

Material:

Site ID:	225418
Operable Unit ID:	825619
Operable Unit:	01
Material ID:	552912
Material Code:	0010
Material Name:	Hydraulic Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	5
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	0004385
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported

(Continued) **S104787139**

Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 07/12/2000 10:30
Reported to Dept Date/Time: 07/12/00 12:22
SWIS: 31
Spiller Name: NIAGARA MOHAWK
Spiller Contact: Not reported
Spiller Phone: ( ) -
Spiller Contact: CHARLES LORENZ
Spiller Phone: (315) 460-2421
Spiller Address: ERIE BLVD
Spiller City,St,Zip: SYRACUSE, NY -
Spill Cause: Equipment Failure
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 07
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 07/12/00
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 07/12/00
Date Spill Entered In Computer Data File: Not reported
Update Date: 07/27/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 5
Unkonwn Quantity Recovered: False
Material: HYDRAULIC OIL
Class Type: HYDRAULIC OIL
Times Material Entry In File: 1846
CAS Number: Not reported
Last Date: 19940728

(Continued) **S104787139**

DEC Remarks: Not reported
Remark: hyd. line on line truck broke...spill cleaned up.

I33 **PARCEL A--MATHEWS AVENUE LANDFILL SITE** **BROWNFIELDS** **S109321476**
ESE **303 BELLE ISLE ROAD** **N/A**
> 1 **GEDDES, NY 13209**
1.142 mi.
6032 ft. **Site 1 of 6 in cluster I**

Relative:
Lower

Actual:
398 ft.

BROWNFIELDS:
Program: BCP
Site Code: 402026
Site Description: The 37.1-acre Parcel A - Mathews Avenue Landfill site is located in the Towns of Geddes and Camillus, New York. The site includes the 20-acre former Mathews Ave. Landfill (formerly a construction and demolition debris landfill), a portion of the former Erie Canal to the north, and a drainage swale which runs south of, and parallel to the canal. Immediately west of the site is Parcel B (BCP Site No. C734073) and the former Village of Solvay Landfill, an 18-acre facility that received construction and demolition debris from the 1950s to 1991. The site was capped in accordance with Part 360 requirements in 2007. Upgradient (south) of the site is the Pass & Seymour facility. Historic operations included steel milling and porcelain manufacturing. The western third of the site had been used from the early 1900s through the early 1980s as a disposal area for manufacturing waste. The facility is now used for office space and product development and testing. The site is currently being investigated under the Brownfield Cleanup Program (BCP Site No. C734102). The former Mathews Ave. Landfill was owned and operated by the Solvay Process Company and Allied Chemical Corp., predecessors to Honeywell International, Inc., the current owner. As early as 1925, the Solvay Process Company utilized the landfill to dispose of unburned sandstone and limestone rock (spalls) from the Solvay soda ash lime kiln operation. The spalls were transported by dump truck and leveled by periodic spreading with a bulldozer. Other waste materials disposed at the landfill included office paper, bricks, wood and other demolition debris, and an occasional load of material from the plant s manufacturing areas. In addition, during a 2002-2003 investigation, Allen-Moore diaphragm cells (and possibly mercury cells) were observed in the landfill. These cells were associated with the Chlor-Alkali process employed at the company s LCP/Bridge Street and Willis Avenue plants. Operation of the landfill was terminated with the closure and demolition of the Syracuse Works between 1985 and 1988. A Preliminary Site Assessment (PSA) was completed in 2003 and a supplemental PSA was completed in 2007. The results of these investigations confirmed the presence of elevated levels of VOCs, SVOCs, PCBs, and metals in various media including soil (surface and subsurface), groundwater, sediment, surface water, and soil vapor. The site was accepted into the Brownfield Cleanup Program (BCP) in February 2009, and a Brownfield Cleanup Agreement is being negotiated with the property owner. A Remedial Action Work Plan (RAWP) is also in the process of being finalized.
Env Problem: A series of investigations was begun in 1989, and concluded with a Preliminary Site Assessment (PSA) in 2003 and a supplemental PSA in 2007. The results of these investigations confirmed the presence of elevated levels of VOCs, SVOCs, PCBs, and metals in various media including soil (surface and subsurface), groundwater, sediment, surface water, and soil vapor.

PARCEL A--MATHEWS AVENUE LANDFILL SITE (Continued) **S109321476**

Health Problem: Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available.

I34 **WPS SYRACUSE GENERATION LLC** **AIRS** **S106534562**
ESE **300 BELLE ISLE ROAD** **N/A**
> 1 **SOLVAY, NY 13209**
1.146 mi.
6051 ft. **Site 2 of 6 in cluster I**

Relative:
Lower

Actual:
398 ft.

AIRS:

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00007
Process Id:	701FP
Contaminant Name/cas:	PM25-PRI
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00601593
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00001
Process Id:	104FP
Contaminant Name/cas:	PM25-PRI
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	2.995
Unit:	TON

Permit Type:	Air Title V Facility
Permit Status:	Issued
Issue Date:	2007-09-26
Expiration Date:	2012-09-25
County Fips:	Not reported
DEC Id:	7313200035
Emission Unit Id:	Not reported
Process Id:	Not reported
Contaminant Name/cas:	Not reported
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	Not reported
Unit:	Not reported

Detail:

Year:	2006
DECID:	7313200035
Facility Name:	WPS SYRACUSE GENERATION LLC
CAS #:	000630080

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Contaminant: CARBON MONOXIDE
Amount (Lbs/Yr): 44391.4365648

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000129000
Contaminant: PYRENE
Amount (Lbs/Yr): 2.3396520172054E-04

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000107028
Contaminant: ACROLEIN
Amount (Lbs/Yr): 3.443517781

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440473
Contaminant: CHROMIUM
Amount (Lbs/Yr): 7.14663030900428

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439976
Contaminant: MERCURY
Amount (Lbs/Yr): 3.56398899886846

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000100414
Contaminant: ETHYLBENZENE
Amount (Lbs/Yr): 17.2095752448

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440417
Contaminant: BERYLLIUM
Amount (Lbs/Yr): 3.46008086081286E-05

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440622
Contaminant: VANADIUM
Amount (Lbs/Yr): 6.63182164989131E-03

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440666
Contaminant: ZINC

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Amount (Lbs/Yr): 8.36186208029774E-02

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440393
Contaminant: BARIUM
Amount (Lbs/Yr): 1.26869631563138E-02

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074840
Contaminant: ETHANE
Amount (Lbs/Yr): 8.99

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440439
Contaminant: CADMIUM
Amount (Lbs/Yr): 3.72495205078908

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount (Lbs/Yr): 0.706880320329577

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount (Lbs/Yr): 2.12797846311935E-03

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000110543
Contaminant: HEXANE
Amount (Lbs/Yr): 3.50877844793151

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007782492
Contaminant: SELENIUM
Amount (Lbs/Yr): 6.92016172162572E-05

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount (Lbs/Yr): 0.645209934597089

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY075025
Contaminant: PM 2.5
Amount (Lbs/Yr): 3577.90310816657

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000075569
Contaminant: PROPANE, 1,2-EPOXY-
Amount (Lbs/Yr): 0.0259064656

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440382
Contaminant: ARSENIC
Amount (Lbs/Yr): 5.7668014346881E-04

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000115071
Contaminant: PROPYLENE
Amount (Lbs/Yr): 0.15111

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074828
Contaminant: METHANE
Amount (Lbs/Yr): 4677.69734704

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount (Lbs/Yr): 61.6505607815064

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount (Lbs/Yr): 1.55733856319543E-05

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439965
Contaminant: MANGANESE
Amount (Lbs/Yr): 43.1038799322726

Year: 2006

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount (Lbs/Yr): 6.38

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount (Lbs/Yr): 6.92016172162572E-05

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount (Lbs/Yr): 3.3225678117599E-05

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007664417
Contaminant: AMMONIA
Amount (Lbs/Yr): 1.421

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000106978
Contaminant: BUTANE
Amount (Lbs/Yr): 4.0935748559201

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000120127
Contaminant: ANTHRACENE
Amount (Lbs/Yr): 8.36443271003376E-05

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount (Lbs/Yr): 3.17174078907845E-03

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440508
Contaminant: COPPER
Amount (Lbs/Yr): 37.1933819306098

Year: 2006
DECID: 7313200035

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount (Lbs/Yr): 1.61237604357845

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 001330207
Contaminant: XYLENE, M, O & P MIXT.
Amount (Lbs/Yr): 34.4310736896

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000071432
Contaminant: BENZENE
Amount (Lbs/Yr): 6.50268609165592

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000108883
Contaminant: TOLUENE
Amount (Lbs/Yr): 69.9378047246239

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439921
Contaminant: LEAD
Amount (Lbs/Yr): 1.44170035867202E-03

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000109660
Contaminant: PENTANE
Amount (Lbs/Yr): 5.06823553590107

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount (Lbs/Yr): 412.0141

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 3252.8788790521

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount (Lbs/Yr): 2.33918563195434E-03

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount (Lbs/Yr): 17083.338

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000108952
Contaminant: PHENOL
Amount (Lbs/Yr): 6.82550324

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount (Lbs/Yr): 59514954.904

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074986
Contaminant: PROPANE
Amount (Lbs/Yr): 3.11891417593912

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount (Lbs/Yr): 1.46729784479315E-05

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount (Lbs/Yr): 2.1853520943976E-04

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount (Lbs/Yr): 382.003200305997

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000075070

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Contaminant: ACETALDEHYDE
Amount (Lbs/Yr): 21.523596936

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000106990
Contaminant: 1,3-BUTADIENE
Amount (Lbs/Yr): 0.2317932474

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000218019
Contaminant: CHRYSENE
Amount (Lbs/Yr): 7.17221784479315E-05

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440484
Contaminant: COBALT
Amount (Lbs/Yr): 2.422056602569E-04

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 621.6204023836

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000086737
Contaminant: FLUORENE
Amount (Lbs/Yr): 9.40893644499679E-04

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount (Lbs/Yr): 5.25115180738251E-05

Year: 2006
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount (Lbs/Yr): 2.47089856319543E-05

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000110543
Contaminant: HEXANE

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Amount (Lbs/Yr): 5.08167913148702

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007782492
Contaminant: SELENIUM
Amount (Lbs/Yr): 1.00223031830441E-04

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074840
Contaminant: ETHANE
Amount (Lbs/Yr): 13.02

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000108883
Contaminant: TOLUENE
Amount (Lbs/Yr): 69.8378441272484

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount (Lbs/Yr): 0.644398310273916

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount (Lbs/Yr): 427.645

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440393
Contaminant: BARIUM
Amount (Lbs/Yr): 1.83742225022476E-02

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 864.765050198

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000106978
Contaminant: BUTANE
Amount (Lbs/Yr): 5.92862565340152

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440382
Contaminant: ARSENIC
Amount (Lbs/Yr): 8.35191931920345E-04

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount (Lbs/Yr): 8.84863488483082E-05

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440484
Contaminant: COBALT
Amount (Lbs/Yr): 3.50780611406545E-04

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000129000
Contaminant: PYRENE
Amount (Lbs/Yr): 5.98813996431828E-04

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount (Lbs/Yr): 4.5935556255619E-03

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount (Lbs/Yr): 1.00223031830441E-04

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000108952
Contaminant: PHENOL
Amount (Lbs/Yr): 6.81275244

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000075070
Contaminant: ACETALDEHYDE
Amount (Lbs/Yr): 21.4860078

Year: 2007

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439976
Contaminant: MERCURY
Amount (Lbs/Yr): 3.55766854419345

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY075025
Contaminant: PM 2.5
Amount (Lbs/Yr): 3586.40768588773

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount (Lbs/Yr): 5.9181186087658E-05

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount (Lbs/Yr): 6.08411363624182E-03

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount (Lbs/Yr): 1.62064124169889E-04

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000218019
Contaminant: CHRYSENE
Amount (Lbs/Yr): 2.21093079131487E-04

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount (Lbs/Yr): 61.5381163552852

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount (Lbs/Yr): 9.24

Year: 2007
DECID: 7313200035

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439921
Contaminant: LEAD
Amount (Lbs/Yr): 2.08797982980086E-03

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount (Lbs/Yr): 381.365943230479

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount (Lbs/Yr): 3.38778608765801E-03

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000071432
Contaminant: BENZENE
Amount (Lbs/Yr): 6.5674757056534

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount (Lbs/Yr): 59576710.4

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000120127
Contaminant: ANTHRACENE
Amount (Lbs/Yr): 2.05564468561756E-04

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000075569
Contaminant: PROPANE, 1,2-EPOXY-
Amount (Lbs/Yr): 0.02597646

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount (Lbs/Yr): 0.718670596594559

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

CAS #: 007664417
Contaminant: AMMONIA
Amount (Lbs/Yr): 2.058

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000115071
Contaminant: PROPYLENE
Amount (Lbs/Yr): 0.420624

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount (Lbs/Yr): 20722.458

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 001330207
Contaminant: XYLENE, M, O & P MIXT.
Amount (Lbs/Yr): 34.38567996

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount (Lbs/Yr): 3.7304679131487E-05

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount (Lbs/Yr): 1.60942570167913

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount (Lbs/Yr): 6.72949815535824E-04

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000107028
Contaminant: ACROLEIN
Amount (Lbs/Yr): 3.437875236

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000106990

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Contaminant: 1,3-BUTADIENE
Amount (Lbs/Yr): 0.2313629952

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440417
Contaminant: BERYLLIUM
Amount (Lbs/Yr): 5.01115159152207E-05

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440508
Contaminant: COPPER
Amount (Lbs/Yr): 37.1250038057107

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000109660
Contaminant: PENTANE
Amount (Lbs/Yr): 7.34020318992569

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440473
Contaminant: CHROMIUM
Amount (Lbs/Yr): 7.13509673152344

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount (Lbs/Yr): 4.1448186087658E-05

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000086737
Contaminant: FLUORENE
Amount (Lbs/Yr): 0.002180992809538

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440439
Contaminant: CADMIUM
Amount (Lbs/Yr): 3.71942116562556

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439965
Contaminant: MANGANESE

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Amount (Lbs/Yr): 43.0238503046707

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440666
Contaminant: ZINC
Amount (Lbs/Yr): 0.12110283012845

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074986
Contaminant: PROPANE
Amount (Lbs/Yr): 4.51704811687735

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074828
Contaminant: METHANE
Amount (Lbs/Yr): 4779.308304

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440622
Contaminant: VANADIUM
Amount (Lbs/Yr): 9.60470721708397E-03

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount (Lbs/Yr): 44500.69848

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000100414
Contaminant: ETHYLBENZENE
Amount (Lbs/Yr): 17.17755648

Year: 2007
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 3468.3134182486

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440417
Contaminant: BERYLLIUM
Amount (Lbs/Yr): 6.68153545536276E-05

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000129000
Contaminant: PYRENE
Amount (Lbs/Yr): 2.98585929197831E-04

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount (Lbs/Yr): 7.266169996565E-05

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS
Amount (Lbs/Yr): 25.2775334070469

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000109660
Contaminant: PENTANE
Amount (Lbs/Yr): 9.78693758656759

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount (Lbs/Yr): 25315837.6

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000086737
Contaminant: FLUORENE
Amount (Lbs/Yr): 1.12505037188696E-03

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount (Lbs/Yr): 4.51704811687735E-03

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440508
Contaminant: COPPER
Amount (Lbs/Yr): 15.2479426742809

Year: 2008

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount (Lbs/Yr): 115.7248

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007664417
Contaminant: AMMONIA
Amount (Lbs/Yr): 2.744

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074828
Contaminant: METHANE
Amount (Lbs/Yr): 1999.968576

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount (Lbs/Yr): 6.12474083408253E-03

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000100414
Contaminant: ETHYLBENZENE
Amount (Lbs/Yr): 7.16582912

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount (Lbs/Yr): 0.660897093972175

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000106978
Contaminant: BUTANE
Amount (Lbs/Yr): 7.90483420453536

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440393
Contaminant: BARIUM
Amount (Lbs/Yr): 2.44989633363301E-02

Year: 2008
DECID: 7313200035

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440473
Contaminant: CHROMIUM
Amount (Lbs/Yr): 2.93528442869792

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount (Lbs/Yr): 3.16616481168773E-05

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000110543
Contaminant: HEXANE
Amount (Lbs/Yr): 6.77557217531602

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000071432
Contaminant: BENZENE
Amount (Lbs/Yr): 2.75080135420454

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount (Lbs/Yr): 0.301754214126079

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440666
Contaminant: ZINC
Amount (Lbs/Yr): 0.161470440171267

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount (Lbs/Yr): 0.264677282233575

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000108952
Contaminant: PHENOL
Amount (Lbs/Yr): 2.79752552

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

CAS #: 000074986
Contaminant: PROPANE
Amount (Lbs/Yr): 6.02273082250313

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount (Lbs/Yr): 2.12978481168773E-05

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440622
Contaminant: VANADIUM
Amount (Lbs/Yr): 1.28062762894453E-02

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440382
Contaminant: ARSENIC
Amount (Lbs/Yr): 1.11358924256046E-03

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 001330207
Contaminant: XYLENE, M, O & P MIXT.
Amount (Lbs/Yr): 14.34624484

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount (Lbs/Yr): 159.294788387305

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount (Lbs/Yr): 2.87951391331585E-04

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440439
Contaminant: CADMIUM
Amount (Lbs/Yr): 1.53154712083408

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074840

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Contaminant: ETHANE
Amount (Lbs/Yr): 17.36

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount (Lbs/Yr): 15597.498

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000120127
Contaminant: ANTHRACENE
Amount (Lbs/Yr): 1.07061236289437E-04

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439965
Contaminant: MANGANESE
Amount (Lbs/Yr): 17.6683793395609

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000075569
Contaminant: PROPANE, 1,2-EPOXY-
Amount (Lbs/Yr): 0.11234484

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount (Lbs/Yr): 12.32

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000107028
Contaminant: ACROLEIN
Amount (Lbs/Yr): 1.4348773

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000075070
Contaminant: ACETALDEHYDE
Amount (Lbs/Yr): 8.96926204

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000630080
Contaminant: CARBON MONOXIDE

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Amount (Lbs/Yr): 18892.86712

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount (Lbs/Yr): 2.7218715149891E-03

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount (Lbs/Yr): 1.33630709107255E-04

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000207089
Contaminant: BENZO[K]FLUORANTHENE
Amount (Lbs/Yr): 2.0948172175316E-05

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440484
Contaminant: COBALT
Amount (Lbs/Yr): 4.67707481875393E-04

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 1313.4846146594

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000218019
Contaminant: CHRYSENE
Amount (Lbs/Yr): 9.6102972175316E-05

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 181.8361525448

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000115071
Contaminant: PROPYLENE
Amount (Lbs/Yr): 0.189612

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007782492
Contaminant: SELENIUM
Amount (Lbs/Yr): 1.33630709107255E-04

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY075025
Contaminant: PM 2.5
Amount (Lbs/Yr): 1527.53801569205

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000108883
Contaminant: TOLUENE
Amount (Lbs/Yr): 29.1451345029978

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439976
Contaminant: MERCURY
Amount (Lbs/Yr): 1.46189231269728

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount (Lbs/Yr): 4.41199327121489E-05

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000106990
Contaminant: 1,3-BUTADIENE
Amount (Lbs/Yr): 0.0968304088

Year: 2008
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439921
Contaminant: LEAD
Amount (Lbs/Yr): 2.78397310640115E-03

Permit Type: Air Title V Facility
Permit Status: Issued
Issue Date: 2007-09-26
Expiration Date: 2012-09-25
County Fips: Not reported
DEC Id: 7313200035
Emission Unit Id: Not reported

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Process Id: Not reported
Contaminant Name/cas: Not reported
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: Not reported
Unit: Not reported

Detail:
Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY998100
Contaminant: UNSPECIATED VOC (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 1351.840555965

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY210000
Contaminant: OXIDES OF NITROGEN
Amount (Lbs/Yr): 18009.137

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000050328
Contaminant: BENZO(A)PYRENE
Amount (Lbs/Yr): 3.3404631926017E-05

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000053703
Contaminant: DIBENZ[A,H]ANTHRACENE
Amount (Lbs/Yr): 4.8570531926017E-05

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000056553
Contaminant: BENZO(A)ANTHRACENE
Amount (Lbs/Yr): 0.591127579947889

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000071432
Contaminant: BENZENE
Amount (Lbs/Yr): 2.67978152387053

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074828
Contaminant: METHANE
Amount (Lbs/Yr): 1908.9694224

Year: 2009

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074840
Contaminant: ETHANE
Amount (Lbs/Yr): 10.23

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000074986
Contaminant: PROPANE
Amount (Lbs/Yr): 3.54910923468935

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000075070
Contaminant: ACETALDEHYDE
Amount (Lbs/Yr): 8.29105318

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000075569
Contaminant: PROPANE, 1,2-EPOXY-
Amount (Lbs/Yr): 0.293844936

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000083329
Contaminant: ACENAPHTHENE
Amount (Lbs/Yr): 5.38285130283074E-04

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000085018
Contaminant: PHENANTHRENE
Amount (Lbs/Yr): 4.91216928561857E-03

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000086737
Contaminant: FLUORENE
Amount (Lbs/Yr): 1.81204809831981E-03

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000091203
Contaminant: NAPHTHALENE
Amount (Lbs/Yr): 0.345581387095725

Year: 2009
DECID: 7313200035

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000091576
Contaminant: 2-METHYL NAPHTHALENE
Amount (Lbs/Yr): 7.87466678667754E-05

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000100414
Contaminant: ETHYLBENZENE
Amount (Lbs/Yr): 6.622226688

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000106978
Contaminant: BUTANE
Amount (Lbs/Yr): 4.65820587052976

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000106990
Contaminant: 1,3-BUTADIENE
Amount (Lbs/Yr): 0.1168546731

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000107028
Contaminant: ACROLEIN
Amount (Lbs/Yr): 1.3265762356

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000108883
Contaminant: TOLUENE
Amount (Lbs/Yr): 26.9467386771237

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000108952
Contaminant: PHENOL
Amount (Lbs/Yr): 2.50203716

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000109660
Contaminant: PENTANE
Amount (Lbs/Yr): 5.76730250637019

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

CAS #: 000110543
Contaminant: HEXANE
Amount (Lbs/Yr): 3.99274788902551

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000115071
Contaminant: PROPYLENE
Amount (Lbs/Yr): 0.34113

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000120127
Contaminant: ANTHRACENE
Amount (Lbs/Yr): 1.68297887533884E-04

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000124389
Contaminant: CARBON DIOXIDE
Amount (Lbs/Yr): 23448447.654

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000129000
Contaminant: PYRENE
Amount (Lbs/Yr): 4.88497895469562E-04

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000191242
Contaminant: BENZO[G,H,I]PERYLENE
Amount (Lbs/Yr): 7.15732451288383E-05

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000205992
Contaminant: BENZO[B]FLUORANTHENE
Amount (Lbs/Yr): 1.28919499805394E-04

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000206440
Contaminant: FLUORANTHENE
Amount (Lbs/Yr): 0.236968732953743

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000207089

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Contaminant: BENZO[K]FLUORANTHENE
Amount (Lbs/Yr): 3.00090478890255E-05

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000218019
Contaminant: CHRYSENE
Amount (Lbs/Yr): 1.76516847889026E-04

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000630080
Contaminant: CARBON MONOXIDE
Amount (Lbs/Yr): 6597.3499166

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 001330207
Contaminant: XYLENE, M, O & P MIXT.
Amount (Lbs/Yr): 13.269510676

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439921
Contaminant: LEAD
Amount (Lbs/Yr): 2.55567835805578E-02

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439965
Contaminant: MANGANESE
Amount (Lbs/Yr): 17.1510715622412

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439976
Contaminant: MERCURY
Amount (Lbs/Yr): 1.30858380979276

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007439987
Contaminant: MOLYBDENUM
Amount (Lbs/Yr): 3.6092222772272E-03

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440020
Contaminant: NICKEL METAL AND INSOLUBLE COMPOUNDS

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Amount (Lbs/Yr): 22.6118872826383

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440382
Contaminant: ARSENIC
Amount (Lbs/Yr): 1.94475442322231E-02

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440393
Contaminant: BARIUM
Amount (Lbs/Yr): 1.44368891089088E-02

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440417
Contaminant: BERYLLIUM
Amount (Lbs/Yr): 5.68946933933388E-04

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440439
Contaminant: CADMIUM
Amount (Lbs/Yr): 1.37610886187723

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440473
Contaminant: CHROMIUM
Amount (Lbs/Yr): 2.64165840962556

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440484
Contaminant: COBALT
Amount (Lbs/Yr): 2.75613337533714E-04

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440508
Contaminant: COPPER
Amount (Lbs/Yr): 13.6359363044869

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440622
Contaminant: VANADIUM
Amount (Lbs/Yr): 7.54655567056597E-03

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007440666
Contaminant: ZINC
Amount (Lbs/Yr): 9.51522236723535E-02

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007446095
Contaminant: SULFUR DIOXIDE
Amount (Lbs/Yr): 203.953

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007664417
Contaminant: AMMONIA
Amount (Lbs/Yr): 1.617

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 007782492
Contaminant: SELENIUM
Amount (Lbs/Yr): 4.27862966678668E-02

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 010024972
Contaminant: NITROUS OXIDE
Amount (Lbs/Yr): 7.26

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 025321226
Contaminant: DICHLOROBENZENE
Amount (Lbs/Yr): 2.66183192601701E-03

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY075025
Contaminant: PM 2.5
Amount (Lbs/Yr): 1401.19710780478

Year: 2009
DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 0NY075105
Contaminant: UNSPECIATED PM-10 (EMISSION STATEMENT USE ONLY)
Amount (Lbs/Yr): 290.7377147877

Year: 2009

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

DECID: 7313200035
Facility Name: WPS SYRACUSE GENERATION LLC
CAS #: 000050000
Contaminant: FORMALDEHYDE
Amount (Lbs/Yr): 147.600157135376

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00001
Process Id: 103FP
Contaminant Name/cas: PM25-PRI
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 2.567
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00005
Process Id: 501FP
Contaminant Name/cas: PM25-PRI
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.00033277
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: PM25-PRI
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.00831189
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00007
Process Id: 701FP

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Contaminant Name/cas:	SO2
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.006
Unit:	TON
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	86737
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	7439976
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0006
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	91203
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0009
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	83329

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: CO
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0924
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: 85018
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: 7440484
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0002
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: 7440020
Epa Control Code: Not reported

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Contol Eff: Not reported
Emissions: 0.0046
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: Not reported
DEC Id: 7313200035
Emission Unit Id: Not reported
Process Id: Not reported
Contaminant Name/cas: Not reported
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: Not reported
Unit: Not reported

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00007
Process Id: 701FP
Contaminant Name/cas: VOC
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.00744999
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00001
Process Id: 103FP
Contaminant Name/cas: VOC
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 2.246
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: 129000
Epa Control Code: Not reported
Contol Eff: Not reported

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Emissions:	0
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00001
Process Id:	103FP
Contaminant Name/cas:	PM10-PRI
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	2.567
Unit:	TON
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	NOX
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.11
Unit:	TON
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	7440439
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0024
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	7440473
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0031

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	110543
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	2.66000008
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	7440382
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0004
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	SO2
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00066
Unit:	TON
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	7440417
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00007
Process Id:	701FP
Contaminant Name/cas:	CO
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.019665
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	218019
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00001
Process Id:	103FP
Contaminant Name/cas:	SO2
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	1.0125
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00001
Process Id:	103FP
Contaminant Name/cas:	NOX
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	7.425
Unit:	TON

Permit Type:	Not reported

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	7439921
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0011
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00007
Process Id:	701FP
Contaminant Name/cas:	PM10-PRI
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00641499
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00007
Process Id:	701FP
Contaminant Name/cas:	NOX
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.091285
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	PM10-PRI
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00831
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	7782492
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0001
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00005
Process Id:	501FP
Contaminant Name/cas:	NOX
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.02189999
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00005
Process Id:	501FP
Contaminant Name/cas:	VOC
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.000685
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00001
Process Id:	104FP
Contaminant Name/cas:	CO
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.632
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	7439965
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0008
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	50328
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	205992
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00001
Process Id:	104FP
Contaminant Name/cas:	NOX
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	5.775
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	50000
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.10999999
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00001
Process Id:	104FP
Contaminant Name/cas:	VOC
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	4.2425
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00001
Process Id:	103FP
Contaminant Name/cas:	CO
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.8125
Unit:	TON

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	207089
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: 71432
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0031
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: 191242
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: 120127
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: 108883
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.005
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Emission Unit Id: U00001
Process Id: 104FP
Contaminant Name/cas: PM10-PRI
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 2.995
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00006
Process Id: 601FP
Contaminant Name/cas: 56553
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00005
Process Id: 501FP
Contaminant Name/cas: SO2
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.001125
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00005
Process Id: 501FP
Contaminant Name/cas: PM10-PRI
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.00038999
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36067
DEC Id: 7313200035
Emission Unit Id: U00001

WPS SYRACUSE GENERATION LLC (Continued) **S106534562**

Process Id:	104FP
Contaminant Name/cas:	SO2
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.7875
Unit:	TON
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00006
Process Id:	601FP
Contaminant Name/cas:	206440
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36067
DEC Id:	7313200035
Emission Unit Id:	U00005
Process Id:	501FP
Contaminant Name/cas:	CO
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0058
Unit:	TON

I35 **SYRACUSE GENERATING FACILITY** **CBS AST** **S103559613**
ESE **300 BELLE ISLE ROAD** **HIST AST** **N/A**
> 1 **SOLVAY, NY 13209** **CBS**
1.146 mi.
6051 ft. **Site 3 of 6 in cluster I**

Relative:
Lower

Actual:
398 ft.

CBS AST:

CBS Number:	7-000244
Region:	STATE
ICS Number:	Not reported
PBS Number:	7-600165
MOSF Number:	Not reported
Telephone:	(315) 487-8399
Facility Town:	GEDDES
Operator:	SHAWN MALLOY
Emrgncy Contact:	SHAWN MALLOY
Emrgncy Phone:	(315) 673-4752
Expiration Date:	12/18/2002
Owner Name:	CH RESOURCES
Owner Address:	110 MAIN STREET
Owner City,St,Zip:	POUGHKEEPSIE, NY 12601
Owner Telephone:	(914) 485-5772
Owner type:	Corporate/Commercial

SYRACUSE GENERATING FACILITY (Continued) **S103559613**

Facility Type:	UTILITY
Mail Name:	CH RESOURCES
Mail Contact Addr:	110 MAIN STREET
Mail Contact Addr2:	Not reported
Mail Contact Contact:	GARY THORN, P.E.
Mail Contact City,St,Zip:	POUGHKEEPSIE, NY 12601
Mail Phone:	(914) 485-5772
SPDES Number:	0-231681
Facility Status:	ACTIVE FACILITY
Owner Sub Type:	Not reported

Tank Id:	AST #1
Date Entered:	12/31/1992
Capacity (Gal):	5000
Chemical:	Sulfuric acid
Tank Closed:	Not reported
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Install Date:	12/92
Certified Date:	10/11/2000
CAS Number:	7664939
Substance:	Single Hazardous Substance on DEC List
Tank Location:	ABOVEGROUND
Intrnl Protection:	Other
Extrnl Protection:	Painted/Asphalt Coating,Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	11
Pipe Containment:	Diking,Painted/Asphalt Coating
Tank Containment:	Diking,Painted/Asphalt Coating
Leak Detection:	None,None
Overfill Protection:	High Level Alarm,Jacketed
Haz Percent:	93
Total Tanks:	4
Tank Secret:	False
Last Test:	Not reported
Due Date:	Not reported
Tank Error Status:	No Missing Data
SWIS Code:	3132
Lat/Long:	43|03|58 / 76|13|30
Pipe Flag:	False
Federal ID:	Not reported
Is Updated:	F
Renew Date:	/ /
Is it There:	F
Deliquent:	F
Date Expired:	12/31/94
Owner Mark:	2
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	09/07/2000
Total Capacity of All Active Tanks(gal):	20980

Tank Id:	CST #1

SYRACUSE GENERATING FACILITY (Continued) **S103559613**

Date Entered:	12/31/1992
Capacity (Gal):	5000
Chemical:	Sodium hydroxide
Tank Closed:	Not reported
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Install Date:	12/92
Certified Date:	10/11/2000
CAS Number:	1310732
Substance:	Single Hazardous Substance on DEC List
Tank Location:	ABOVEGROUND
Intrnl Protection:	Epoxy Liner
Extrnl Protection:	Painted/Asphalt Coating,Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	11
Pipe Containment:	Diking,Painted/Asphalt Coating
Tank Containment:	Diking,Painted/Asphalt Coating
Leak Detection:	None,None
Overfill Protection:	High Level Alarm,Jacketed
Haz Percent:	50
Total Tanks:	4
Tank Secret:	False
Last Test:	Not reported
Due Date:	Not reported
Tank Error Status:	No Missing Data
SWIS Code:	3132
Lat/Long:	43|03|58 / 76|13|30
Pipe Flag:	False
Federal ID:	Not reported
Is Updated:	F
Renew Date:	/ /
Is it There:	F
Deliquent:	F
Date Expired:	12/31/94
Owner Mark:	2
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	09/07/2000
Total Capacity of All Active Tanks(gal):	20980

Tank Id:	AST #3
Date Entered:	11/21/1996
Capacity (Gal):	1000
Chemical:	Sulfuric acid
Tank Closed:	Not reported
Tank Status:	In Service
Tank Type:	Fiberglass reinforced plastic [FRP]
Install Date:	10/95
Certified Date:	10/11/2000
CAS Number:	7664939
Substance:	Single Hazardous Substance on DEC List
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Intrnl Protection:	None

SYRACUSE GENERATING FACILITY (Continued) **S103559613**

Extrnl Protection:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	0
Pipe Containment:	Diking,Jacketed
Tank Containment:	Diking,Jacketed
Leak Detection:	Other
Overfill Protection:	Product Level Gauge
Haz Percent:	98
Total Tanks:	4
Tank Secret:	False
Last Test:	Not reported
Due Date:	Not reported
Tank Error Status:	No Missing Data
SWIS Code:	3132
Lat/Long:	43|03|58 / 76|13|30
Pipe Flag:	False
Federal ID:	Not reported
Is Updated:	F
Renew Date:	/ /
Is it There:	F
Deliquent:	F
Date Expired:	12/31/94
Owner Mark:	2
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	09/07/2000
Total Capacity of All Active Tanks(gal):	20980

Tank Id:	AST #2
Date Entered:	04/18/1996
Capacity (Gal):	9980
Chemical:	Ammonium hydroxide
Tank Closed:	Not reported
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Install Date:	05/96
Certified Date:	10/11/2000
CAS Number:	1336216
Substance:	Single Hazardous Substance on DEC List
Tank Location:	ABOVEGROUND
Intrnl Protection:	None
Extrnl Protection:	Painted/Asphalt Coating
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	0
Pipe Containment:	None
Tank Containment:	Diking
Leak Detection:	Electronic
Overfill Protection:	High Level Alarm
Haz Percent:	29
Total Tanks:	4
Tank Secret:	False

SYRACUSE GENERATING FACILITY (Continued) **S103559613**

Last Test: Not reported
Due Date: Not reported
Tank Error Status: No Missing Data
SWIS Code: 3132
Lat/Long: 43|03|58 / 76|13|30
Pipe Flag: False
Federal ID: Not reported
Is Updated: F
Renew Date: / /
Is it There: F
Deliquent: F
Date Expired: 12/31/94
Owner Mark: 2
Certificate Needs to be Printed: False
Fiscal Amt for Registration Fee Correct: True
Renewal Has Been Printed for Facility: True
Pre-Printed Renewal App Last Printed: 09/07/2000
Total Capacity of All Active Tanks(gal): 20980

HIST AST:
PBS Number: 7-600165
SWIS Code: 3132
Operator: SHAWN MALLOY
Facility Phone: (315) 487-8399
Facility Addr2: Not reported
Facility Type: OTHER
Emergency: SHAWN MALLOY
Emergency Tel: (315) 673-4752
Old PBSNO: Not reported
Date Inspected: Not reported
Inspector: Not reported
Result of Inspection: Not reported
Owner Name: CH RESOURCES, C/O CENTRAL HUDSON ENTERPRISES
Owner Address: 110 MAIN ST.
Owner City,St,Zip: POUGHKEEPSIE, NY 12601
Federal ID: Not reported
Owner Tel: (914) 485-5772
Owner Type: Corporate/Commercial
Owner Subtype: Not reported
Mailing Contact: GARY THORN, P.E.
Mailing Name: CH RESOURCES, C/O CENTRAL HUDSON ENTERPRISES
Mailing Address: 110 MAIN ST.
Mailing Address 2: Not reported
Mailing City,St,Zip: POUGHKEEPSIE, NY 12601
Mailing Telephone: (914) 485-5772
Owner Mark: Second Owner
Facility Status: 1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag: False
Certification Date: 03/05/1999
Expiration: 02/04/2004
Renew Flag: False
Renew Date: Not reported
Total Capacity: 390934
FAMT: True
Facility Screen: No Missing Data

SYRACUSE GENERATING FACILITY (Continued) **S103559613**

Owner Screen: No Missing Data
Tank Screen: No Missing Data
Dead Letter: False
CBS Number: 7-000244
Town or City: GEDDES
County Code: 31
Town or City Code: 32
Region: 7

Tank ID: F83-AA004
Tank Location: ABOVEGROUND
Tank Status: In Service
Install Date: 19930301
Capacity (Gal): 250
Product Stored: NOS 1,2, OR 4 FUEL OIL
Tank Type: Steel/carbon steel
Tank Internal: 0
Tank External: 01
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: 01
Tank Containment: 89
Leak Detection: 09
Overfill Protection: 24
Dispenser Method: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
SPDES Number: 0-231681
Lat/Long: 43|03|58 / 76|13|30

Tank ID: F83-AA005
Tank Location: ABOVEGROUND
Tank Status: In Service
Install Date: 19930301
Capacity (Gal): 250
Product Stored: NOS 1,2, OR 4 FUEL OIL
Tank Type: Steel/carbon steel
Tank Internal: 0
Tank External: 01
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: 01
Tank Containment: 89
Leak Detection: 09
Overfill Protection: 24
Dispenser Method: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data

SYRACUSE GENERATING FACILITY (Continued) **S103559613**

Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	0-231681
Lat/Long:	43|03|58 / 76|13|30

Tank ID:	F83-AA006
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19930301
Capacity (Gal):	700
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	01
Tank Containment:	89
Leak Detection:	09
Overfill Protection:	24
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	0-231681
Lat/Long:	43|03|58 / 76|13|30

Tank ID:	F83-AD001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19930101
Capacity (Gal):	350000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	13
Tank Containment:	29
Leak Detection:	59
Overfill Protection:	24
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported

SYRACUSE GENERATING FACILITY (Continued) **S103559613**

Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	0-231681
Lat/Long:	43|03|58 / 76|13|30

Tank ID:	N21-CL009A
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19930301
Capacity (Gal):	30
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	11
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	11
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	04
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	0-231681
Lat/Long:	43|03|58 / 76|13|30

Tank ID:	N21-CL009B
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19930301
Capacity (Gal):	30
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	11
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	11
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	04
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported

SYRACUSE GENERATING FACILITY (Continued) **S103559613**

Deleted:	False
Updated:	True
SPDES Number:	0-231681
Lat/Long:	43|03|58 / 76|13|30

Tank ID:	N31-AA001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19930301
Capacity (Gal):	4624
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	01
Tank Containment:	79
Leak Detection:	09
Overfill Protection:	24
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	0-231681
Lat/Long:	43|03|58 / 76|13|30

Tank ID:	N59-AA003
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19930301
Capacity (Gal):	18000
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	01
Tank Containment:	79
Leak Detection:	09
Overfill Protection:	04
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False

SYRACUSE GENERATING FACILITY (Continued) **S103559613**

Updated: True
SPDES Number: 0-231681
Lat/Long: 43|03|58 / 76|13|30

Tank ID: N59-AA004
Tank Location: ABOVEGROUND
Tank Status: In Service
Install Date: 19930301
Capacity (Gal): 8600
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: 0
Tank External: 01
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: 01
Tank Containment: 79
Leak Detection: 09
Overfill Protection: 04
Dispenser Method: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
SPDES Number: 0-231681
Lat/Long: 43|03|58 / 76|13|30

Tank ID: T43-AA001
Tank Location: ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status: In Service
Install Date: 19930301
Capacity (Gal): 250
Product Stored: DIESEL
Tank Type: Steel/carbon steel
Tank Internal: 0
Tank External: 11
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: 11
Tank Containment: 79
Leak Detection: 00
Overfill Protection: 04
Dispenser Method: Gravity
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True

SYRACUSE GENERATING FACILITY (Continued) **S103559613**

SPDES Number: 0-231681
Lat/Long: 43|03|58 / 76|13|30

Tank ID: TK-601
Tank Location: ABOVEGROUND
Tank Status: In Service
Install Date: 19930301
Capacity (Gal): 8200
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: 0
Tank External: 01
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: 01
Tank Containment: 89
Leak Detection: 09
Overfill Protection: 24
Dispenser Method: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
SPDES Number: 0-231681
Lat/Long: 43|03|58 / 76|13|30

CBS:
CBS Number: 7-000244
Program Type: CBS
Dec Region: 7
Expiration Date: 2011/10/02
Facility Status: Active
UTMX: 400343.82653000
UTMY: 4768974.3533300

I36 **WPS SYRACUSE GENERATION LLC** **RCRA-NonGen** **1000872456**
ESE **300 BELLE ISLE ROAD** **FINDS** **NYD987036696**
> 1 **SOLVAY, NY 13209**
1.146 mi.
6051 ft. **Site 4 of 6 in cluster I**

Relative:
Lower

Actual:
398 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: WPS SYRACUSE GENERATION LLC
Facility address: 300 BELLE ISLE RD
SYRACUSE GENERATING FAC
SOLVAY, NY 13209
EPA ID: NYD987036696
Mailing address: BELLE ISLE RD
SYRACUSE GENERATING FAC
SOLVAY, NY 13209
Contact: RANDAL OSWALD

WPS SYRACUSE GENERATION LLC (Continued) **1000872456**

Contact address: BELLE ISLE RD
SOLVAY, NY 13209
Contact country: US
Contact telephone: (920) 433-1395
Contact email: Not reported
EPA Region: 02
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: WPS SYRACUSE GENERATION LLC
Owner/operator address: 300 BELLE ISLE RD SYRACUSE GENERATING FAC
SOLVAY, NY 13209
Owner/operator country: US
Owner/operator telephone: (920) 433-1395
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2001
Owner/Op end date: Not reported

Owner/operator name: WPS SYRACUSE GENERATION LLC
Owner/operator address: 300 BELLE ISLE RD SYRACUSE GENERATING FAC
SOLVAY, NY 13209
Owner/operator country: US
Owner/operator telephone: (920) 433-1395
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2001
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: WPS SYRACUSE GENERATION LLC
Classification: Not a generator, verified

Date form received by agency: 11/07/2002

WPS SYRACUSE GENERATION LLC (Continued) **1000872456**

Facility name: WPS SYRACUSE GENERATION LLC
Classification: Small Quantity Generator

Date form received by agency: 02/20/2002
Facility name: WPS SYRACUSE GENERATION LLC
Classification: Small Quantity Generator

Date form received by agency: 04/08/1999
Facility name: WPS SYRACUSE GENERATION LLC
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/06/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110001600189

Environmental Interest/Information System
Not reported

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

CAMDBS (Clean Air Markets Division Business System) is a national information system that supports the implementation of market-based air pollution control programs administered by the Clean Air Markets Division, within the Office of Air and Radiation. These programs include the Acid Rain Program, established by Title IV of the Clean Air Act Amendments of 1990, and regional programs designed reduce the transport of ozone. These emissions trading programs allows regulated facilities (primarily electric utilities) to adopt the most cost-effective strategies to reduce emissions at their units. Units that reduce their emissions below the number of allowances they hold -- each allowance is equivalent to one ton of sulfur dioxide or nitrogen oxides -- may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. CAMDBS functions include registering responsible officials, establishing allowance accounts, reporting hourly emissions data, and transferring allowances between accounts.

WPS SYRACUSE GENERATION LLC (Continued) **1000872456**

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company that generates electricity in the United States.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

US EPA RACT/BACT/LAER Clearinghouse (RBLC) database contains case-specific information on the "Best Available" air pollution technologies that have been required to reduce the emission of air pollutants from stationary sources (e.g., power plants, steel mills, chemical plants, etc.). RACT, or Reasonably Available Control Technology, is required on existing sources in areas that are not meeting national ambient air quality standards. BACT, or Best Available Control Technology, is required on major new or modified sources in clean areas. LAER, or Lowest Achievable Emission Rate, is required on major new or modified sources in non-attainment areas.

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

I37 **KAMINE/BESICORP SYRACUSE COGEN** **TSCA** **1005929760**
ESE **300 BELLE ISLE RD** **N/A**
> 1 **SOLVAY, NY 13209**
1.146 mi.
6051 ft. **Site 5 of 6 in cluster I**

Relative:
Lower

Click this hyperlink while viewing on your computer to access additional TSCA detail in the EDR Site Report.

Actual:
398 ft.

I38 **WPS SYRACUSE GENERATION** **NPDES** **S108160751**
ESE **300 BELLE ISLE ROAD** **N/A**
> 1 **SOLVAY, NY 13209**
1.146 mi.
6051 ft. **Site 6 of 6 in cluster I**

Relative:
Lower

Actual:
398 ft.

SPDES:

Permit Number:	NY0231681
State-Region:	07
Expiration Date:	11/30/2011
Current Major Minor Status:	Minor
Primary Facility SIC Code:	4911
State Water Body Name:	GEDDES BK
Limit Set Status Flag:	A
Total Actual Average Flow(MGD):	0.165
Total App Design Flow(MGD):	Not reported
UDF1:	DMR
Lat/Long:	43.067639 / -76.226806
DMR Cognizant Official:	STEVEN G NANN, ENV ENG
UDF2:	000702
UDF3:	D
FIPS County Code:	NY067
Supplemental Address:	Not reported
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	WPS SYRACUSE GENERATION
Non-Gov Permit Street Address:	1716 LAWRENCE DRIVE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	DEPERE
Non-Gov Permit State Code:	WI
Non-Gov Permit Zip Code:	54115
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	WPS SYRACUSE GENERATION LLC
Non-Gov Facility Street Address:	WPS SYRACUSE GENERATION
Non-Gov Facility Supplemental Location:	1716 LAWRENCE DRIVE
Non-Gov Facility City:	DEPERE
Non-Gov Facility State Code:	WI
Non-Gov Facility Zip Code:	54115
State Water Body:	04140201360
UDF2:	000702
UDF3:	D
FIPS County Code:	NY067
Supplemental Address:	Not reported
Non-Gov Permit Affiliation Type Desc:	Permittee
Non-Gov Permit Org Formal Name:	WPS SYRACUSE GENERATION
Non-Gov Permit Street Address:	1716 LAWRENCE DRIVE
Non-Gov Permit Supplemental Location:	Not reported
Non-Gov Permit City:	DEPERE

WPS SYRACUSE GENERATION (Continued) **S108160751**

Non-Gov Permit State Code:	WI
Non-Gov Permit Zip Code:	54115
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	WPS SYRACUSE GENERATION LLC
Non-Gov Facility Street Address:	WPS SYRACUSE GENERATION
Non-Gov Facility Supplemental Location:	300 BELLE ISLE ROAD
Non-Gov Facility City:	SOLVAY
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	13209
State Water Body:	04140201360
UDF2:	000702
UDF3:	D
FIPS County Code:	NY067
Supplemental Address:	Not reported
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	WPS SYRACUSE GENERATION LLC
Non-Gov Permit Street Address:	WPS SYRACUSE GENERATION
Non-Gov Permit Supplemental Location:	300 BELLE ISLE ROAD
Non-Gov Permit City:	SOLVAY
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	13209
Non-Gov Facility Affiliation Type Desc:	Mailing Address
Non-Gov Facility Org Formal Name:	WPS SYRACUSE GENERATION LLC
Non-Gov Facility Street Address:	WPS SYRACUSE GENERATION
Non-Gov Facility Supplemental Location:	300 BELLE ISLE ROAD
Non-Gov Facility City:	SOLVAY
Non-Gov Facility State Code:	NY
Non-Gov Facility Zip Code:	13209
State Water Body:	04140201360
UDF2:	000702
UDF3:	D
FIPS County Code:	NY067
Supplemental Address:	Not reported
Non-Gov Permit Affiliation Type Desc:	DMR Mailing Address
Non-Gov Permit Org Formal Name:	WPS SYRACUSE GENERATION LLC
Non-Gov Permit Street Address:	WPS SYRACUSE GENERATION
Non-Gov Permit Supplemental Location:	300 BELLE ISLE ROAD
Non-Gov Permit City:	SOLVAY
Non-Gov Permit State Code:	NY
Non-Gov Permit Zip Code:	13209
Non-Gov Facility Affiliation Type Desc:	Owner
Non-Gov Facility Org Formal Name:	WPS SYRACUSE GENERATION LLC
Non-Gov Facility Street Address:	WPS SYRACUSE GENERATION
Non-Gov Facility Supplemental Location:	1716 LAWRENCE DRIVE
Non-Gov Facility City:	DEPERE
Non-Gov Facility State Code:	WI
Non-Gov Facility Zip Code:	54115
State Water Body:	04140201360

J39 **FINGERLAKES COLLISION** **NY Spills** **S102125938**
West **6171 AIRPORT ROAD** **NY Hist Spills** **N/A**
> 1 **CAMILLUS, NY**
1.148 mi.
6060 ft. **Site 1 of 3 in cluster J**

Relative:
Higher

Actual:
400 ft.

NY Spills:

Site ID:	119347
Facility Addr2:	Not reported
Facility ID:	9412426
Spill Number:	9412426
Facility Type:	ER
SWIS:	3420
Investigator:	CFMANNES
Referred To:	Not reported
Spill Date:	12/13/1994
Reported to Dept:	12/14/1994
CID:	Not reported
Spill Cause:	Traffic Accident
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Police Department
Cleanup Ceased:	12/14/1994
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	12/14/1994
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	NOBEL & PITTS TRUCKING
Spiller Address:	Not reported
Spiller City,St,Zip:	SCOTTS BORO, AL
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	103670
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" 12/13/94: REFER TO SPILL NO. 9412272, FOUND THE SPILLER. 09/28/95: This is additional information about material spilled from the translation of the old spill file: SADDLE TANK PUNC.
Remarks:	TRACTOR TRAILER SPILLED 40 GAL. DIESEL IN PARKING LOT. MET WITH JIM CARLTON OF FINGER LAKES- INFORM ME THAT TRAC.TRL. HIT A STONE(LARGE) PUNTURE SADDLE TANK. LEFT PATH OF DIESEL IN STONE DRIVEWAY TO R

Material:

Site ID:	119347
Operable Unit ID:	1010071
Operable Unit:	01
Material ID:	374737
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	60

FINGERLAKES COLLISION (Continued) **S102125938**

Units: Gallons
Recovered: 60
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9412426
Investigator: CM
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 12/13/1994 20:00
Reported to Dept Date/Time: 12/14/94 11:15
SWIS: 31
Spiller Name: NOBEL & PITTS TRUCKING
Spiller Contact: Not reported
Spiller Phone: (800) 219-4131
Spiller Address: Not reported
Spiller City,St,Zip: SCOTTS BORO,ALABAMA
Spill Cause: Traffic Accident
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 07
Spill Notifier: Police Department
PBS Number: Not reported
Cleanup Ceased: 12/14/94
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: 12/13/94
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 12/14/94
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 12/19/94

FINGERLAKES COLLISION (Continued) **S102125938**

Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 60
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 60
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 12/13/94: REFER TO SPILL NO. 9412272, FOUND THE SPILLER. 09/28/95: This is additional information about material spilled from the translation of the old spill file: SADDLE TANK PUNC.
Remark: TRACTOR TRAILER SPILLED 40 GAL. DIESEL IN PARKING LOT. MET WITH JIM CARLTON OF FINGER LAKES- INFORM ME THAT TRAC.TRL. HIT A STONE LARGE) PUNTURE SADDLE TANK. LEFT PATH OF DIESEL IN STONE DRIVEWAY TO R

J40 **NYSDOT BRIDGE BIN 1039280** **RCRA-NonGen** **1000552978**
West **RTE 174 OVER NINE MILE CREEK** **FINDS** **NYD986953842**
> 1 **CAMILLUS, NY 13031** **MANIFEST**
1.154 mi.
6091 ft. **Site 2 of 3 in cluster J**

Relative:
Higher

Actual:
401 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: NYSDOT BRIDGE BIN 1039280
Facility address: RTE 174 OVER NINE MILE CREEK
DOWNTOWN
CAMILLUS, NY 13031
EPA ID: NYD986953842
Mailing address: S WARREN ST
SYRACUSE, NY 13202
Contact: DAVID BEITER
Contact address: S WARREN ST
SYRACUSE, NY 13202
Contact country: US
Contact telephone: (315) 448-7342
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NYSDOT

NYSDOT BRIDGE BIN 1039280 (Continued) **1000552978**

Owner/operator address: 109 S WARREN ST
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 448-7342
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYSDOT
Owner/operator address: 333 E WASHINGTON ST
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 428-4400
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYSDOT BRIDGE BIN 1039280
Classification: Not a generator, verified

Date form received by agency: 11/25/1997
Facility name: NYSDOT BRIDGE BIN 1039280
Classification: Not a generator, verified

Date form received by agency: 12/10/1991
Facility name: NYSDOT BRIDGE BIN 1039280
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110008051712

NYSDOT BRIDGE BIN 1039280 (Continued) **1000552978**

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD986953842
Country:	USA
Mailing Name:	NYSDOT
Mailing Contact:	KEVIN BAILEY
Mailing Address:	877 STATE FAIR BOULEVARD
Mailing Address 2:	Not reported
Mailing City:	SYRACUSE
Mailing State:	NY
Mailing Zip:	13201
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-488-1879

Document ID:	NYG0377172
Manifest Status:	Not reported
Trans1 State ID:	NYD986903904
Trans2 State ID:	NYD986903904
Generator Ship Date:	07/24/1998
Trans1 Recv Date:	07/24/1998
Trans2 Recv Date:	07/24/1998
TSD Site Recv Date:	07/29/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986953842
Trans1 EPA ID:	OHD055522429
Trans2 EPA ID:	Not reported
TSDF ID:	86044DNY
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	01378
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	98

Document ID:	MIA2374932
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	911127
Trans1 Recv Date:	911127
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	911204
Part A Recv Date:	Not reported

NYSDOT BRIDGE BIN 1039280 (Continued) **1000552978**

Part B Recv Date:	911230
Generator EPA ID:	NYD986953842
Trans1 EPA ID:	NYD046765574
Trans2 EPA ID:	Not reported
TSDF ID:	MID000724831
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00700
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	91

J41 **NY Spills** **S106005635**
West **WARNERS RD & AIRPORT RD** **N/A**
> 1 **AMBOY, NY**
1.166 mi.
6158 ft. **Site 3 of 3 in cluster J**

Relative:
Higher

Actual:
400 ft.

NY Spills:

Site ID:	170597
Facility Addr2:	Not reported
Facility ID:	0203960
Spill Number:	0203960
Facility Type:	ER
SWIS:	3400
Investigator:	CFMANNES
Referred To:	Not reported
Spill Date:	7/16/2002
Reported to Dept:	7/16/2002
CID:	207
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	7/18/2002
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	6/21/2003
Remediation Phase:	0
Date Entered In Computer:	7/16/2002
Spill Record Last Update:	10/6/2003
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	STEVE BINCI
Contact Phone:	(315) 455-2000
DEC Region:	7
DER Facility ID:	143555
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"

(Continued) **S106005635**

Remarks: soil contamination found on right of way for road construction project

Material:
Site ID: 170597
Operable Unit ID: 856753
Operable Unit: 01
Material ID: 521770
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 170597
Spill Tank Test: 1527284
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

K42 **VALERINO PROPERTY** **FINDS** **1007771407**
NE **730 STATE FAIR BOULEVARD** **N/A**
> 1 **GEDDES, NY 13209**
1.188 mi.
6275 ft. **Site 1 of 3 in cluster K**

Relative: Lower

Actual: 380 ft.

FINDS:

Registry ID: 110019338457

Environmental Interest/Information System
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

K43 **BACOLA RESIDENCE** **NY Spills** **S104500131**
NE **740 STATE FAIR BLVD** **NY Hist Spills** **N/A**
> 1 **GEDDES, NY**
1.191 mi.
6287 ft. **Site 2 of 3 in cluster K**

Relative: Lower

Actual: 375 ft.

NY Spills:
Site ID: 235322
Facility Addr2: Not reported
Facility ID: 8903136

BACOLA RESIDENCE (Continued) **S104500131**

Spill Number:	8903136
Facility Type:	ER
SWIS:	3432
Investigator:	GREGG
Referred To:	Not reported
Spill Date:	6/26/1989
Reported to Dept:	6/26/1989
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	6/26/1989
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	6/26/1989
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	193826
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TG" 06/26/89: RENEE OF ONONDAGA CO. HEALTH DEPT. WILL HANDLE.
Remarks:	RAW SEWAGE OR SEPTIC TANK RUN OFF IS SUSPECTED OF LEAKING INTO DITCH THAT GOES INTO BACOLA PROPERTY. VERY STRONG ODOR. WENT THROUGH LEGAL MEANS 10 YEARS AGO TO HAVE TOWN CORRECT PROBLEM.

Material:

Site ID:	235322
Operable Unit ID:	928588
Operable Unit:	01
Material ID:	447252
Material Code:	0062A
Material Name:	RAW SEWAGE
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported

BACOLA RESIDENCE (Continued) **S104500131**

Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	8903136
Investigator:	TG
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	06/26/1989 11:00
Reported to Dept Date/Time:	06/26/89 11:43
SWIS:	31
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	12
Spill Notifier:	Affected Persons
PBS Number:	Not reported
Cleanup Ceased:	06/26/89
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	06/26/89
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	07/13/89
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

BACOLA RESIDENCE (Continued) **S104500131**

Material:
Material Class Type: Hazardous Material
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: RAW SEWAGE
Class Type: RAW SEWAGE
Times Material Entry In File: 1993
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 06/26/89: RENEE OF ONONDAGA CO. HEALTH DEPT. WILL HANDLE.
Remark: RAW SEWAGE OR SEPTIC TANK RUN OFF IS SUSPECTED OF LEAKING INTO DITCH THAT GOES INTO BACOLA PROPERTY. VERY STRONG ODOR. WENT THROUGH LEGAL MEANS 10 YEARS AGO TO HAVE TOWN CORRECT PROBLEM.

K44 **DESTEFANO PROPERTY** **FINDS** **1007768681**
NE **740 STATE FAIR BLVD** **N/A**
> 1 **GEDDES, NY 13209**
1.192 mi.
6294 ft. **Site 3 of 3 in cluster K**

Relative: Lower

Actual: 375 ft.

FINDS:

Registry ID: 110019311136

Environmental Interest/Information System
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

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45 **VAL'S MOTORS** **RCRA-NonGen** **1000137970**
NE **743 STATE FAIR BLVD** **FINDS** **NYD982720922**
> 1 **SYRACUSE, NY 13209**
1.200 mi.
6338 ft.

Relative: Lower

Actual: 381 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: VAL'S MOTORS
Facility address: 743 STATE FAIR BLVD
SYRACUSE, NY 13209
EPA ID: NYD982720922
Mailing address: STATE FAIR BLVD
SYRACUSE, NY 13209
Contact: GARY VALERINO
Contact address: STATE FAIR BLVD
SYRACUSE, NY 13209
Contact country: US
Contact telephone: (315) 487-6211
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

VAL'S MOTORS (Continued) **1000137970**

Owner/Operator Summary:
Owner/operator name: UNKNOWN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: UNKNOWN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: VAL'S MOTORS
Classification: Not a generator, verified

Date form received by agency: 01/05/1989
Facility name: VAL'S MOTORS
Site name: VAL'S MOTORS
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110004426719

VAL'S MOTORS (Continued) **1000137970**

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

46
East
> 1
1.229 mi.
6491 ft.

Relative:
Lower

Actual:
377 ft.

NYSDOT BIN 1093320 **RCRA-NonGen** **1000556565**
695N OVER RTE 931B & CONRAIL **FINDS** **NYD986991354**
SYRACUSE, NY 13209

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	NYSDOT BIN 1093320
Facility address:	695N OVER RTE 931B & CONRAIL SYRACUSE, NY 13209
EPA ID:	NYD986991354
Mailing address:	OVER RTE 931B & CONRAIL SYRACUSE, NY 13209
Contact:	Not reported
Contact address:	OVER RTE 931B & CONRAIL SYRACUSE, NY 13209
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYSDOT
Owner/operator address:	333 E WASHINGTON ST SYRACUSE, NY 13202
Owner/operator country:	US
Owner/operator telephone:	(315) 428-4400
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NYSDOT
Owner/operator address:	333 E WASHINGTON ST SYRACUSE, NY 13202
Owner/operator country:	US
Owner/operator telephone:	(315) 428-4400
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown

NYSDOT BIN 1093320 (Continued) **1000556565**

Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYSDOT BIN 1093320
Classification: Not a generator, verified

Date form received by agency: 09/08/1992
Facility name: NYSDOT BIN 1093320
Classification: Not a generator, verified

Date form received by agency: 01/21/1992
Facility name: NYSDOT BIN 1093320
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110008072165

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

L47 **LAKELAND GARAGE** **NY Spills** **S102165936**
NNE **759 STATE FAIR BLVD.** **NY Hist Spills** **N/A**
> 1 **SYRACUSE (GEDDES), NY**
1.234 mi.
6514 ft. **Site 1 of 13 in cluster L**

Relative:
Lower

Actual:
392 ft.

NY Spills:
Site ID: 110273
Facility Addr2: Not reported
Facility ID: 8709511
Spill Number: 8709511
Facility Type: ER
SWIS: 3400
Investigator: CSCUIPLY

LAKELAND GARAGE (Continued) **S102165936**

Referred To:	Not reported
Spill Date:	2/9/1988
Reported to Dept:	2/9/1988
CID:	Not reported
Spill Cause:	Deliberate
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Citizen
Cleanup Ceased:	2/11/1988
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	2/11/1988
Remediation Phase:	0
Date Entered In Computer:	2/22/1988
Spill Record Last Update:	3/8/1988
Spiller Name:	Not reported
Spiller Company:	LAKELAND GARAGE
Spiller Address:	759 STATE FAIR BLVD.
Spiller City,St,Zip:	SYRACUSE, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	96671
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CC" 02/09/88: NO SPILL. DISGRUNTLED EMPLOYEE REPORTED SPILL. NO PBS REGISTRATIONSENT PBS FORMS. 02/11/88: NO APPARENT PROBLEM. CASE CLOSED.
Remarks:	FUEL TANKS OUT BACK (ABOVE GROUND) REPORTED TO BE LEAKING. OPEN DRAIN INSIDE BLDG. WHERE OIL DRIPS FROM CARS. LAKELAND COMMUNITY WATCH IS CONCERNED. CHILDREN PLAY IN BACK.

Material:

Site ID:	110273
Operable Unit ID:	914941
Operable Unit:	01
Material ID:	464838
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported

LAKELAND GARAGE (Continued) **S102165936**

Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 8709511
Investigator: CC
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 02/09/1988 12:10
Reported to Dept Date/Time: 02/09/88 12:00
SWIS: 31
Spiller Name: LAKELAND GARAGE
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: 759 STATE FAIR BLVD.
Spiller City,St,Zip: SYRACUSE, NY
Spill Cause: Deliberate
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Citizen
PBS Number: Not reported
Cleanup Ceased: 02/11/88
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 02/11/88
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 02/22/88
Date Spill Entered In Computer Data File: Not reported
Update Date: 03/08/88
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0

LAKELAND GARAGE (Continued) **S102165936**

Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 02/09/88: NO SPILL. DISGRUNTLED EMPLOYEE REPORTED SPILL. NO PBS REGISTRATIONSENT PBS FORMS. 02/11/88: NO APPARENT PROBLEM. CASE CLOSED.
Remark: FUEL TANKS OUT BACK ABOVE GROUND) REPORTED TO BE LEAKING. OPEN DRAIN INSIDE BLDG. WHERE OIL DRIPS FROM CARS. LAKELAND COMMUNITY WATCH IS CONCERNED. CHILDREN PLAY IN BACK.

L48 **FAIR DELI MART** **NY Spills** **S108957400**
NNE **757 STATE FAIR BLVD** **N/A**
> 1 **SOLVEY, NY 13209**
1.234 mi.
6514 ft. **Site 2 of 13 in cluster L**

Relative:
Lower

Actual:
392 ft.

NY Spills:
Site ID: 388383
Facility Addr2: Not reported
Facility ID: 0750960
Spill Number: 0750960
Facility Type: ER
SWIS: 3432
Investigator: menash
Referred To: Not reported
Spill Date: 10/10/2007
Reported to Dept: 10/10/2007
CID: Not reported
Spill Cause: Traffic Accident
Water Affected: Not reported
Spill Source: Vessel
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 7/23/2008
Remediation Phase: 0
Date Entered In Computer: 10/11/2007
Spill Record Last Update: 7/23/2008
Spiller Name: Not reported
Spiller Company: ONONDAGA BEVERAGE CORP
Spiller Address: EDGECOMB DR
Spiller City,St,Zip: LIVERPOOL, NY
Spiller Company: 999
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 7
DER Facility ID: 337897
DEC Memo: Dumpster containing cooking oil knocked over by delivery truck.

FAIR DELI MART (Continued) **S108957400**

Contents spilled onto parking lot and Lakeland Ave. Environmental Products and Services did spill cleanup. No further remediation required.

Remarks: Not reported

Material:

Site ID:	388383
Operable Unit ID:	1145558
Operable Unit:	01
Material ID:	2135893
Material Code:	0820A
Material Name:	COOKING OIL
Case No.:	Not reported
Material FA:	Other
Quantity:	75
Units:	Gallons
Recovered:	70
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

L49 **LAKE LAND GARAGE** **NY Spills** **S107409427**
NNE **759 STATE FAIR BLVD** **N/A**
> 1 **GEDDIES, NY**
1.235 mi.
6522 ft. **Site 3 of 13 in cluster L**

Relative:
Lower

Actual:
392 ft.

NY Spills:

Site ID:	353570
Facility Addr2:	Not reported
Facility ID:	0508050
Spill Number:	0508050
Facility Type:	ER
SWIS:	3432
Investigator:	HDWARNER
Referred To:	Not reported
Spill Date:	9/8/2005
Reported to Dept:	10/5/2005
CID:	444
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	10/25/2005

LAKE LAND GARAGE (Continued) **S107409427**

Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	5/10/2006
Remediation Phase:	0
Date Entered In Computer:	10/5/2005
Spill Record Last Update:	5/11/2006
Spiller Name:	CLAYTON THIESMAN
Spiller Company:	LAKE LAND GARAGE
Spiller Address:	759 STATE FAIR BLVD
Spiller City,St,Zip:	GEDDIES, NY
Spiller Company:	001
Contact Name:	CLAYTON THIESMAN
Contact Phone:	(315) 685-6591
DEC Region:	7
DER Facility ID:	300916
DEC Memo:	Not reported
Remarks:	TEST PITS FOUND CONTAIMNATION:

Material:

Site ID:	353570
Operable Unit ID:	1111026
Operable Unit:	01
Material ID:	2101068
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

L50 **THE LAKELAND GARAGE** **NY Spills** **S107788491**
NNE **759 STATE FAIR BLVD** **N/A**
> 1 **GEDDES, NY**
1.235 mi.
6522 ft. **Site 4 of 13 in cluster L**

Relative:
Lower

Actual:
392 ft.

NY Spills:

Site ID:	364537
Facility Addr2:	Not reported
Facility ID:	0602130
Spill Number:	0602130
Facility Type:	ER
SWIS:	3432
Investigator:	HDWARNER
Referred To:	Not reported
Spill Date:	5/26/2006
Reported to Dept:	5/26/2006
CID:	408
Spill Cause:	Housekeeping
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	9/5/2006
Remediation Phase:	0
Date Entered In Computer:	5/26/2006
Spill Record Last Update:	9/5/2006
Spiller Name:	Not reported
Spiller Company:	CLAYTON THEISEN
Spiller Address:	759 STATE FAIR BLVD
Spiller City,St,Zip:	GEDDES, NY
Spiller Company:	001
Contact Name:	CHRISTIAN BRUNELLE
Contact Phone:	(315) 214-6455
DEC Region:	7
DER Facility ID:	121977
DEC Memo:	Not reported
Remarks:	CALLER AHS SPOKEN TO HARRY WARNER AT DEC. FOUND CONTAMINATED SOIL DURING DEMOLITION OF THE BUILDING. HAS NOT BEEN CLEANED UP

Material:

Site ID:	364537
Operable Unit ID:	1122560
Operable Unit:	01
Material ID:	2112026
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

THE LAKELAND GARAGE (Continued) **S107788491**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

L51 **MYERS CAMPERS** **NY Spills S104653426**
NNE **759 STATE FAIR BLVD** **NY Hist Spills N/A**
> 1 **GEDDES, NY**
1.235 mi.
6522 ft. **Site 5 of 13 in cluster L**

Relative:
Lower

Actual:
392 ft.

NY Spills:

Site ID:	142969
Facility Addr2:	Not reported
Facility ID:	0002848
Spill Number:	0002848
Facility Type:	ER
SWIS:	3432
Investigator:	CFMANNES
Referred To:	Not reported
Spill Date:	6/7/2000
Reported to Dept:	6/7/2000
CID:	397
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	6/7/2000
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/5/2002
Remediation Phase:	0
Date Entered In Computer:	6/7/2000
Spill Record Last Update:	8/5/2002
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	121977
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" ONON. CO. DOT REMOVED AND DISPOSED OF CONTAMINATED SOIL

MYERS CAMPERS (Continued) **S104653426**

Remarks: CALLERS COMPANY WAS EXCAVATING AND DISCOVERED CONTAMINATED SOIL. COMPANY HAS STOPPED EXCAVATION UNTIL DEC IS CONTACTED

Material:
Site ID: 142969
Operable Unit ID: 824944
Operable Unit: 01
Material ID: 551189
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 0002848
Investigator: CM
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 06/07/2000 08:00
Reported to Dept Date/Time: 06/07/00 09:42
SWIS: 31
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: ( ) -
Spiller Contact: CALLER
Spiller Phone: ( ) -
Spiller Address: Not reported
Spiller City,St,Zip: -
Spill Cause: Unknown
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Affected Persons
PBS Number: Not reported

MYERS CAMPERS (Continued) **S104653426**

Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: 06/07/00
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 06/07/00
Date Spill Entered In Computer Data File: Not reported
Update Date: 06/19/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: CALLERS COMPANY WAS EXCAVATING AND DISCOVERED CONTAMINATED SOIL. COMPANY HAS STOPPED EXCAVATION UNTIL DEC IS CONTACTED

L52 **GAS STATION** **LTANKS** **S104621802**
NNE **756 STATE FAIR BLVD** **HIST LTANKS** **N/A**
> 1 **GEDDES, NY**
1.235 mi.
6522 ft. **Site 6 of 13 in cluster L**

Relative:
Lower

Actual:
392 ft.

LTANKS:
Site ID: 197040
Spill No: 0003262
Spill Date: 6/15/2000
Spill Cause: Tank Failure
Spill Source: Gasoline Station
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 8/5/2002
Facility Addr2: Not reported
Cleanup Ceased: Not reported

GAS STATION (Continued) **S104621802**

Cleanup Meets Standard:	False
SWIS:	3432
Investigator:	CFMANNES
Referred To:	Not reported
Reported to Dept:	6/15/2000
CID:	389
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	6/15/2000
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	6/15/2000
Spill Record Last Update:	8/5/2002
Spiller Name:	UNKNOWN
Spiller Company:	UNKNOWN
Spiller Address:	UNKNOWN
Spiller City,St,Zip:	UNKNOWN, NY
Spiller County:	999
Spiller Contact:	CALLER
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	164015
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" ONON. CO. DOT REMOVED AND DISPOSED OF CONTAMINATED SOIL
Remarks:	spill engineer on scene from region 7 chris manhus spill from a tank failure no clean up and no callback necessary. SEE SPILL NO. 00-02848. Not reported

Material:

Site ID:	197040
Operable Unit ID:	824699
Operable Unit:	01
Material ID:	551585
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

GAS STATION (Continued) **S104621802**

HIST LTANKS:

Region of Spill:	7
Spill Number:	0003262
Spill Date:	06/15/2000
Spill Time:	12:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	06/15/00
Reported to Department Time:	14:02
SWIS:	31
Spiller Contact:	CALLER
Spiller Phone:	( ) -
Spiller Extention:	Not reported
Spiller Name:	UNK
Spiller Address:	UNK
Spiller City,St,Zip:	UNK
Spiller Cleanup Date:	/ /
Facility Contact:	UNK
Facility Phone:	(000) 000-0000
Facility Extention:	Not reported
Spill Notifier:	Other
PBS Number:	Not reported
Last Inspection:	06/15/00
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	06/15/00
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	06/29/00
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported

GAS STATION (Continued) **S104621802**

Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: spill engineer on scene from region 7 chris manhus spill from a tank failure no clean up and no callback necessary. SEE SPILL NO. 00-02848.

L53 **VAL'S MOTORS, INC.** **RCRA-CESQG** **1000137968**
NNE **756 STATE FAIR BLVD** **FINDS** **NYD013222575**
> 1 **SYRACUSE, NY 13209** **MANIFEST**
1.236 mi. **NY Spills**
6524 ft. **Site 7 of 13 in cluster L** **NY Hist Spills**

Relative:
Lower

Actual:
392 ft.

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: VAL'S MOTORS, INC.
Facility address: 756 STATE FAIR BLVD
SYRACUSE, NY 13209
EPA ID: NYD013222575
Mailing address: STATE FAIR BLVD
SYRACUSE, NY 13209
Contact: Not reported
Contact address: STATE FAIR BLVD
SYRACUSE, NY 13209
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: MARGARET VALERINO

VAL'S MOTORS, INC. (Continued) **1000137968**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MARGARET VALERINO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: VAL'S MOTORS, INC.
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/14/1999
Facility name: VAL'S MOTORS, INC.
Site name: VAL'S MOTORS, INC.
Classification: Small Quantity Generator

Date form received by agency: 05/27/1986
Facility name: VAL'S MOTORS, INC.
Site name: VAL'S MOTORS, INC.
Classification: Large Quantity Generator

Violation Status: No violations found

VAL'S MOTORS, INC. (Continued) **1000137968**

Evaluation Action Summary:
Evaluation date: 04/18/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004347519

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD013222575
Country: USA
Mailing Name: VAL'S MOTORS INCORPORATED
Mailing Contact: VAL'S MOTORS INCORPORATED
Mailing Address: P.O. BOX 1156
Mailing Address 2: Not reported
Mailing City: ELBRIDGE
Mailing State: NY
Mailing Zip: 13060
Mailing Zip4: 1156
Mailing Country: USA
Mailing Phone: 315-487-6211

Document ID: NYA3295833
Manifest Status: Completed copy
Trans1 State ID: NYSDECVA0
Trans2 State ID: Not reported
Generator Ship Date: 870121
Trans1 Recv Date: 870121
Trans2 Recv Date: Not reported
TSD Site Recv Date: 870123
Part A Recv Date: 870210
Part B Recv Date: 870210
Generator EPA ID: NYD013222575
Trans1 EPA ID: VAD980831580
Trans2 EPA ID: Not reported
TSDF ID: NYD043815703
Waste Code: F003 - UNKNOWN
Quantity: 00130
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 086
Year: 87

VAL'S MOTORS, INC. (Continued) **1000137968**

Document ID:	NYC4867806
Manifest Status:	Completed copy
Trans1 State ID:	NYLJ5601
Trans2 State ID:	Not reported
Generator Ship Date:	970922
Trans1 Recv Date:	970922
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970923
Part A Recv Date:	971020
Part B Recv Date:	971007
Generator EPA ID:	NYD013222575
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD982743312
Waste Code:	F005 - UNKNOWN
Quantity:	00224
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97

Document ID:	NYC4724741
Manifest Status:	Completed copy
Trans1 State ID:	NYNS7862
Trans2 State ID:	Not reported
Generator Ship Date:	970602
Trans1 Recv Date:	970602
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970603
Part A Recv Date:	970617
Part B Recv Date:	970610
Generator EPA ID:	NYD013222575
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD982743312
Waste Code:	F005 - UNKNOWN
Quantity:	00112
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97

Document ID:	NYA3571852
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYSDECVA0
Trans2 State ID:	Not reported
Generator Ship Date:	870623
Trans1 Recv Date:	870623
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870625
Part A Recv Date:	870731

VAL'S MOTORS, INC. (Continued) **1000137968**

Part B Recv Date: 870702
Generator EPA ID: NYD013222575
Trans1 EPA ID: VAD980831580
Trans2 EPA ID: Not reported
TSDF ID: NYD043815703
Waste Code: F003 - UNKNOWN
Quantity: 00050
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 086
Year: 87

Document ID: NYA5154687
Manifest Status: Completed copy
Trans1 State ID: YB34314
Trans2 State ID: Not reported
Generator Ship Date: 871210
Trans1 Recv Date: 871210
Trans2 Recv Date: Not reported
TSD Site Recv Date: 871215
Part A Recv Date: 871230
Part B Recv Date: 871222
Generator EPA ID: NYD013222575
Trans1 EPA ID: VAD980831580
Trans2 EPA ID: Not reported
TSDF ID: NYD043815703
Waste Code: F003 - UNKNOWN
Quantity: 00080
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 87

Document ID: NYB5038641
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: P22295IL
Trans2 State ID: Not reported
Generator Ship Date: 920716
Trans1 Recv Date: 920716
Trans2 Recv Date: Not reported
TSD Site Recv Date: 920724
Part A Recv Date: Not reported
Part B Recv Date: 920811
Generator EPA ID: NYD013222575
Trans1 EPA ID: ILD099202681
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: F005 - UNKNOWN
Quantity: 00050
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001

VAL'S MOTORS, INC. (Continued) **1000137968**

Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 92

Document ID: NYC4339901
Manifest Status: Completed copy
Trans1 State ID: NYNS7862
Trans2 State ID: Not reported
Generator Ship Date: 970210
Trans1 Recv Date: 970210
Trans2 Recv Date: Not reported
TSD Site Recv Date: 970211
Part A Recv Date: 970221
Part B Recv Date: 970219
Generator EPA ID: NYD013222575
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NYD982743312
Waste Code: F005 - UNKNOWN
Quantity: 00224
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 97

Document ID: NYC4691226
Manifest Status: Completed copy
Trans1 State ID: NYLJ5601
Trans2 State ID: Not reported
Generator Ship Date: 970410
Trans1 Recv Date: 970410
Trans2 Recv Date: Not reported
TSD Site Recv Date: 970411
Part A Recv Date: 970424
Part B Recv Date: 970421
Generator EPA ID: NYD013222575
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NYD982743312
Waste Code: F005 - UNKNOWN
Quantity: 00224
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 97

Document ID: NYB5546772
Manifest Status: Completed copy
Trans1 State ID: P22295IL

VAL'S MOTORS, INC. (Continued) **1000137968**

Trans2 State ID:	Not reported
Generator Ship Date:	930223
Trans1 Recv Date:	930223
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930225
Part A Recv Date:	930310
Part B Recv Date:	930305
Generator EPA ID:	NYD013222575
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	F005 - UNKNOWN
Quantity:	00095
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	NYC4902546
Manifest Status:	Completed copy
Trans1 State ID:	NYLJ5601
Trans2 State ID:	Not reported
Generator Ship Date:	971208
Trans1 Recv Date:	971208
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	971209
Part A Recv Date:	980115
Part B Recv Date:	971223
Generator EPA ID:	NYD013222575
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD982743312
Waste Code:	F005 - UNKNOWN
Quantity:	00224
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97

Document ID:	NYC4815112
Manifest Status:	Completed copy
Trans1 State ID:	NYNS7862
Trans2 State ID:	Not reported
Generator Ship Date:	970729
Trans1 Recv Date:	970729
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	970730
Part A Recv Date:	970818
Part B Recv Date:	970819
Generator EPA ID:	NYD013222575
Trans1 EPA ID:	ILD984908202

VAL'S MOTORS, INC. (Continued) **1000137968**

Trans2 EPA ID:	Not reported
TSDF ID:	NYD982743312
Waste Code:	F005 - UNKNOWN
Quantity:	00224
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	97

Document ID:	NYB4156884
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	P52019IL
Trans2 State ID:	Not reported
Generator Ship Date:	930810
Trans1 Recv Date:	930810
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930813
Part A Recv Date:	930819
Part B Recv Date:	930923
Generator EPA ID:	NYD013222575
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	F005 - UNKNOWN
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	93

Document ID:	PAC9922216
Manifest Status:	Completed copy
Trans1 State ID:	PAAH0172
Trans2 State ID:	Not reported
Generator Ship Date:	930607
Trans1 Recv Date:	930607
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	930611
Part A Recv Date:	930618
Part B Recv Date:	930621
Generator EPA ID:	NYD013222575
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	PAD981737109
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00150
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100

VAL'S MOTORS, INC. (Continued) **1000137968**

Year: 93

Document ID: NYC4958267
Manifest Status: Not reported
Trans1 State ID: ILD984908202
Trans2 State ID: Not reported
Generator Ship Date: 01/15/1998
Trans1 Recv Date: 01/15/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/16/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD013222575
Trans1 EPA ID: NYD982743312
Trans2 EPA ID: Not reported
TSDF ID: NYLW1771
Waste Code: F005 - UNKNOWN
Quantity: 00224
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 98

Document ID: NYB4291443
Manifest Status: Completed copy
Trans1 State ID: P52019IL
Trans2 State ID: Not reported
Generator Ship Date: 931215
Trans1 Recv Date: 931215
Trans2 Recv Date: Not reported
TSD Site Recv Date: 931217
Part A Recv Date: 931223
Part B Recv Date: 931230
Generator EPA ID: NYD013222575
Trans1 EPA ID: ILD099202681
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: F005 - UNKNOWN
Quantity: 00087
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 93

Document ID: NYC5007126
Manifest Status: Not reported
Trans1 State ID: ILD984908202
Trans2 State ID: Not reported
Generator Ship Date: 03/26/1998
Trans1 Recv Date: 03/26/1998

VAL'S MOTORS, INC. (Continued) **1000137968**

Trans2 Recv Date: Not reported
TSD Site Recv Date: 03/27/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD013222575
Trans1 EPA ID: NYD982743312
Trans2 EPA ID: Not reported
TSDF ID: NYLW1771
Waste Code: F005 - UNKNOWN
Quantity: 00224
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 98

Document ID: NYC5378602
Manifest Status: Not reported
Trans1 State ID: ILD984908202
Trans2 State ID: Not reported
Generator Ship Date: 09/08/1998
Trans1 Recv Date: 09/08/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 09/09/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD013222575
Trans1 EPA ID: NYD982743312
Trans2 EPA ID: Not reported
TSDF ID: NYLW1771
Waste Code: F005 - UNKNOWN
Quantity: 00224
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 98

Document ID: NYC5246493
Manifest Status: Not reported
Trans1 State ID: ILD984908202
Trans2 State ID: Not reported
Generator Ship Date: 05/21/1998
Trans1 Recv Date: 05/21/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/21/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD013222575
Trans1 EPA ID: NYD982743312
Trans2 EPA ID: Not reported
TSDF ID: NYLW1771
Waste Code: F005 - UNKNOWN

VAL'S MOTORS, INC. (Continued) **1000137968**

Quantity: 00112
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 98

Document ID: NYC5436202
Manifest Status: Not reported
Trans1 State ID: ILD984908202
Trans2 State ID: Not reported
Generator Ship Date: 11/06/1998
Trans1 Recv Date: 11/06/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/06/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD013222575
Trans1 EPA ID: NYD982743312
Trans2 EPA ID: Not reported
TSDF ID: NYLW1771
Waste Code: F005 - UNKNOWN
Quantity: 00224
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 98

Document ID: NYC5315286
Manifest Status: Not reported
Trans1 State ID: ILD984908202
Trans2 State ID: Not reported
Generator Ship Date: 07/15/1998
Trans1 Recv Date: 07/15/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/16/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD013222575
Trans1 EPA ID: NYD982743312
Trans2 EPA ID: Not reported
TSDF ID: NYLW1771
Waste Code: F005 - UNKNOWN
Quantity: 00112
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 98

VAL'S MOTORS, INC. (Continued) **1000137968**

Click this hyperlink while viewing on your computer to access
23 additional NY_MANIFEST: record(s) in the EDR Site Report.

NY Spills:

Site ID:	246312
Facility Addr2:	Not reported
Facility ID:	9110296
Spill Number:	9110296
Facility Type:	ER
SWIS:	3415
Investigator:	ROMOCKI
Referred To:	Not reported
Spill Date:	12/31/1991
Reported to Dept:	12/31/1991
CID:	Not reported
Spill Cause:	Housekeeping
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	8/25/1995
Cleanup Meets Std:	True
Last Inspection:	8/28/1995
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/25/1995
Remediation Phase:	0
Date Entered In Computer:	12/31/1991
Spill Record Last Update:	8/28/1995
Spiller Name:	Not reported
Spiller Company:	VAL'S MOTORS INC.
Spiller Address:	756 STATE FAIR BLVD.
Spiller City,St,Zip:	SYRACUSE, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	202290
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MR" 12/31/91: MET WITH L. VALERINO AND ART BAGOZZI. REQUESTED THAT CONTAMINATED SOIL BE EXCAVATED AND DISPOSED OF. NOTIFIED VALERINO THAT SEWER DISCHARGE WAS ILLEGAL MUST BE MODIFIED. 05/15/92: REC'D NOTICE THAT REQUIRED SAMPLING HAS BEEN COMPLETED. WAITING FOR RESULTS. 11/20/92: CONSULTANT HIRED TO REMEDIATE SITE. 02/10/93: WORK PROPOSAL TO INVESTIGATE SITE WAS APPROVED BY R.BRAZELL 12/27/92. 09/28/95: This is additional information about material spilled from the translation of the old spill file: ANTI-FREEZE.
Remarks:	SHEEN NOTICED WHEN EXCAVATING DRAIN FROM CAR DEALERSHIP.

Material:

Site ID:	246312
Operable Unit ID:	963889
Operable Unit:	01
Material ID:	418844
Material Code:	0022

VAL'S MOTORS, INC. (Continued) **1000137968**

Material Name: Waste Oil/Used Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 50
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9110296
Investigator: MR
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 12/31/1991 01:00
Reported to Dept Date/Time: 12/31/91 10:00
SWIS: 31
Spiller Name: VAL'S MOTORS INC.
Spiller Contact: Not reported
Spiller Phone: (315) 487-6211
Spiller Address: 756 STATE FAIR BLVD.
Spiller City,St,Zip: SYRACUSE, NY
Spill Cause: Housekeeping
Reported to Dept: In Sewer
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: 08/25/95
Cleanup Meets Std: True
Last Inspection: 08/28/95
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

VAL'S MOTORS, INC. (Continued) **1000137968**

Spill Closed Dt: 08/25/95
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 12/31/91
Date Spill Entered In Computer Data File: Not reported
Update Date: 08/28/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 50
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: WASTE OIL
Class Type: WASTE OIL
Times Material Entry In File: 9509
CAS Number: Not reported
Last Date: 19940927
DEC Remarks: 12/31/91: MET WITH L. VALERINO AND ART BAGOZZI. REQUESTED THAT CONTAMINATED SOIL BE EXCAVATED AND DISPOSED OF. NOTIFIED VALERINO THAT SEWER DISCHARGE WAS ILLEGAL MUST BE MODIFIED. 05/15/92: REC D NOTICE THAT REQUIRED SAMPLING HAS BEEN COMPLETED.WAITING FOR RESULTS. 11/20/92: CONSULTANT HIRED TO REMEDIATE SITE. 02/10/93: WORK PROPOSAL TO INVESTIGATE SITE WAS APPROVED BY R.BRAZELL 12/27/92. 09/28/95: This is additional information about material spilled from the translation of the oldspill file: ANTI-FREEZE.
Remark: SHEEN NOTICED WHEN EXCAVATING DRAIN FROM CAR DEALERSHIP.

L54 **VAL'S DODGE** **HSWDS** **S108146410**
NNE **756 STATE FAIR BLVD** **N/A**
> 1 **SOLVAY, NY 13209**
1.236 mi.
6524 ft. **Site 8 of 13 in cluster L**

Relative:
Lower

Actual:
392 ft.

HSWDS:
Facility ID: Not reported
Region: 7
Facility Status: Unknown
Owner Type: Puplic
Owner: Louis Valerino
Owner Address: 756 State Fair Blvd.
Owner Phone: Unknown
Operator Type: Puplic
Operator: Same
Operator: Same
Operator Phone: Same
EPA ID: Not reported
Registry: Is or was on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID: 734040
RCRA Permitted: Unknown

VAL'S DODGE (Continued) **S108146410**

Site Code:	Municipal Landfill
Owner City State:	Lakeland
Operator City State:	Not reported
Quadrange:	Unknown
Latitude:	43 05 07 N
Longitude:	76 14 08 W
Acres:	0.00
Operator Date:	1927
Close Date:	Unknown
Completed:	Phase 2
Active:	Unknown
PCB's Disposed:	Yes
Pesticides Disposed:	No
Metals Disposed:	No
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	Unknown
Semi Volatile Organic Compounds Disposed:	Unknown
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	Not reported
Analytical Info Exists for Surface:	Surface Water
Analytical Info Exists for Sediments:	Sediment
Analytical Info Exists for Surface:	Surface Soil
Analytical Info Exists for Substance:	SubSoil
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental/Public
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Yes
Site Has Controlled Acess:	No
Ambient Air Contamination:	Unknown
Direct Contact:	Yes
EPA Hazardous Ranking System Score:	Not reported
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported

VAL'S DODGE (Continued) **S108146410**

Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

L55 **VAL'S MOTORS INC.** **UST** **U003313871**
NNE **756 STATE FAIR BLVD** **HIST UST** **N/A**
> 1 **SYRACUSE, NY 13209**
1.236 mi.
6524 ft. **Site 9 of 13 in cluster L**

Relative:
Lower

Actual:
392 ft.

UST:

Facility Id:	7-464651
Region:	STATE
DEC Region:	7
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	399323.46122
UTM Y:	4771139.1631300002

Affiliation Records:

Site Id:	46206
Affiliation Type:	Mail Contact
Company Name:	MOBIL OIL CORP;ATT:A.J.PRINGLE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	3225 GALLOWS RD.; ENV.ENGINEER
Address2:	Not reported
City:	FAIRFAX
State:	VA
Zip Code:	22037
Country Code:	001
Phone:	(703) 849-5862
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/10/2010

Site Id:	46206
Affiliation Type:	On-Site Operator
Company Name:	VALS MOTORS INC.
Contact Type:	Not reported
Contact Name:	VAL'S MOTORS INC.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-6211

VAL'S MOTORS INC. (Continued) **U003313871**

Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	46206
Affiliation Type:	Emergency Contact
Company Name:	MOBIL OIL CORP;ATT:A.J.PRINGLE
Contact Type:	Not reported
Contact Name:	GARY J. VALERINO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-8117
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	46206
Affiliation Type:	Owner
Company Name:	MOBIL OIL CORP;ATT:A.J.PRINGLE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	3225 GALLOWS RD.; ENV.ENGINEER
Address2:	Not reported
City:	FAIRFAX
State:	VA
Zip Code:	22037
Country Code:	001
Phone:	(703) 849-5862
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/10/2010

Equipment Records:

G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
D00 - Pipe Type - No Piping
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None

VAL'S MOTORS INC. (Continued) **U003313871**

B00 - Tank External Protection - None
I00 - Overfill - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping

Tank Info:

Site ID:	46206
Tank Number:	001
Tank ID:	134535
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	46206
Tank Number:	002
Tank ID:	134536
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	3000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	7-464651
SPDES Number:	Not reported
Emergency Contact:	GARY J. VALERINO
Emergency Telephone:	(315) 487-8117
Operator:	VAL'S MOTORS INC.
Operator Telephone:	(315) 487-6211
Owner Name:	MOBIL OIL CORP;ATT:A.J.PRINGLE
Owner Address:	3225 GALLOWS RD.; ENV.ENGINEER
Owner City,St,Zip:	FAIRFAX, VA 22037
Owner Telephone:	(703) 849-5862
Owner Type:	Not reported
Owner Subtype:	Mobil Oil Company

VAL'S MOTORS INC. (Continued) **U003313871**

Mailing Name:	MOBIL OIL CORP;ATT:A.J.PRINGLE
Mailing Address:	3225 GALLOWS RD.; ENV.ENGINEER
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FAIRFAX, VA 22037
Mailing Contact:	Not reported
Mailing Telephone:	(703) 849-5862
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	3115
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	01/18/1989
Expiration Date:	01/18/1994
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	SYRACUSE (C)
County Code:	31
Town or City:	15
Region:	7

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	2000
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False

VAL'S MOTORS INC. (Continued) **U003313871**

Updated:	False
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

L56 **VAL'S DODGE (2)** **HSWDS** **S108146824**
NNE **756 STATE FAIR BLVD** **N/A**
> 1 **SOLVAY, NY 13209**
1.236 mi.
6524 ft. **Site 10 of 13 in cluster L**

Relative:
Lower

Actual:
392 ft.

HSWDS:

Facility ID:	Not reported
Region:	7
Facility Status:	Unknown
Owner Type:	Puplic
Owner:	Louis Valerino
Owner Address:	756 State Fair Blvd.
Owner Phone:	Unknown
Operator Type:	Puplic
Operator:	Same
Operator:	Same
Operator Phone:	Same
EPA ID:	NYD980530075
Registry:	Is or was on NYS Registry of Inactive Haz Waste Disposal Sites
Registry Site ID:	734040
RCRA Permitted:	Unknown
Site Code:	Municipal Landfill
Owner City State:	Lakeland
Operator City State:	Not reported
Quadrange:	Syracuse West
Latitude:	43 05 07 N
Longitude:	76 14 08 W

VAL'S DODGE (2) (Continued) **S108146824**

Acres:	16.50
Operator Date:	1927
Close Date:	Unknown
Completed:	Phase 2
Active:	Unknown
PCB's Disposed:	Yes
Pesticides Disposed:	No
Metals Disposed:	No
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	Unknown
Semi Volatile Organic Compounds Disposed:	Unknown
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	Groundwater
Analytical Info Exists for Surface:	Surface Water
Analytical Info Exists for Sediments:	Sediment
Analytical Info Exists for Surface:	Surface Soil
Analytical Info Exists for Substance:	Subsurface
Analytical Info Exists for Waste:	Waste
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	EPTox
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental/Public
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	Unknown
Hazardous Exposure:	Yes
Site Has Controlled Acess:	No
Ambient Air Contamination:	Unknown
Direct Contact:	Yes
EPA Hazardous Ranking System Score:	Not reported
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported

VAL'S DODGE (2) (Continued) **S108146824**

Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

L57 **BYRNE DAIRY STORE** **NY Spills** **S109371454**
NNE **759 STATE FAIR BLVD** **N/A**
> 1 **SYRACUSE, NY**
1.235 mi.
6523 ft. **Site 11 of 13 in cluster L**

Relative:
Lower

Actual:
393 ft.

NY Spills:

Site ID:	404022
Facility Addr2:	Not reported
Facility ID:	0806729
Spill Number:	0806729
Facility Type:	ER
SWIS:	3415
Investigator:	hdwarner
Referred To:	Not reported
Spill Date:	9/15/2008
Reported to Dept:	9/15/2008
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	9/15/2008
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/27/2008
Remediation Phase:	0
Date Entered In Computer:	9/15/2008
Spill Record Last Update:	10/27/2008
Spiller Name:	PAUL SEABROOK
Spiller Company:	BYRNE DAIRY
Spiller Address:	759 STATE FAIR BLVD
Spiller City,St,Zip:	SYRACUSE, NY
Spiller Company:	999
Contact Name:	PAUL SEABROOK
Contact Phone:	(315) 468-0743
DEC Region:	7
DER Facility ID:	353248
DEC Memo:	Minor surface spill probably less than 5 gallons. Small amount entered surface drain that discharged to retention pond on site. Absorbants applied to pavement and discharge point into storm water retention pond.
Remarks:	caller states that there is a massive gas spill at the above location. caller states that the fumes are overwhelming. there is a lot of gasoline in the storm drain.

Material:

Site ID:	404022

BYRNE DAIRY STORE (Continued) **S109371454**

Operable Unit ID:	1160701
Operable Unit:	01
Material ID:	2151875
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

L58 **BYRNE DAIRY LAKELAND** **UST** **U004053206**
NNE **759 - 763 STATE FAIR BLVD** **N/A**
> 1 **SYRACUSE, NY 13209**
1.235 mi.
6523 ft. **Site 12 of 13 in cluster L**

Relative:
Lower

Actual:
393 ft.

UST:

Facility Id:	7-601090
Region:	STATE
DEC Region:	7
Site Status:	Active
Program Type:	PBS
Expiration Date:	2011/06/06
UTM X:	399305.41978
UTM Y:	4771146.8713400001

Affiliation Records:

Site Id:	365003
Affiliation Type:	Owner
Company Name:	SONBYRNE SALES, INC.
Contact Type:	DIRECTOR OF FACILITIES
Contact Name:	CHRISTIAN BRUNELLE
Address1:	171 NY-5
Address2:	Not reported
City:	WEEDSPORT
State:	NY
Zip Code:	13166
Country Code:	001
Phone:	(315) 214-6455
Phone Ext:	502
Email:	Not reported
Fax Number:	Not reported

BYRNE DAIRY LAKELAND (Continued) **U004053206**

Modified By:	KCKemp
Date Last Modified:	7/13/2007
Site Id:	365003
Affiliation Type:	On-Site Operator
Company Name:	BYRNE DAIRY LAKELAND
Contact Type:	Not reported
Contact Name:	SONBYRNE SALES, INC.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	Not reported
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKemp
Date Last Modified:	6/6/2006
Site Id:	365003
Affiliation Type:	Mail Contact
Company Name:	SONBYRNE SALES, INC.
Contact Type:	DIRECTOR OF FACILITIES
Contact Name:	CHRISTIAN BRUNELLE
Address1:	171 NY-5
Address2:	Not reported
City:	WEEDSPORT
State:	NY
Zip Code:	13166
Country Code:	001
Phone:	(315) 214-6455
Phone Ext:	502
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKemp
Date Last Modified:	7/13/2007
Site Id:	365003
Affiliation Type:	Emergency Contact
Company Name:	SONBYRNE SALES, INC.
Contact Type:	Not reported
Contact Name:	CHRISTIAN BRUNELLE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(315) 420-7575
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKemp
Date Last Modified:	7/13/2007

BYRNE DAIRY LAKELAND (Continued) **U004053206**

Equipment Records:

E04 - Piping Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve
I03 - Overfill - Automatic Shut-Off
D11 - Pipe Type - Flexible Piping
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
L08 - Piping Leak Detection - Tank Top Sump
G04 - Tank Secondary Containment - Double-Walled (Underground)
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
J01 - Dispenser - Submersible
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
K01 - Spill Prevention - Catch Basin
J01 - Dispenser - Submersible
J01 - Dispenser - Submersible
F00 - Pipe External Protection - None
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
I01 - Overfill - Float Vent Valve
G04 - Tank Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
B04 - Tank External Protection - Fiberglass
L08 - Piping Leak Detection - Tank Top Sump
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
G04 - Tank Secondary Containment - Double-Walled (Underground)
C02 - Pipe Location - Underground/On-ground
D11 - Pipe Type - Flexible Piping
B04 - Tank External Protection - Fiberglass
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
D11 - Pipe Type - Flexible Piping
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I03 - Overfill - Automatic Shut-Off
L08 - Piping Leak Detection - Tank Top Sump
E04 - Piping Secondary Containment - Double-Walled (Underground)
K01 - Spill Prevention - Catch Basin
A03 - Tank Internal Protection - Fiberglass Liner (FRP)
I01 - Overfill - Float Vent Valve
E04 - Piping Secondary Containment - Double-Walled (Underground)
F00 - Pipe External Protection - None
I03 - Overfill - Automatic Shut-Off

Tank Info:

Site ID:	365003
Tank Number:	001
Tank ID:	212127
Tank Status:	In Service
Tank Model:	104
Pipe Model:	Not reported
Install Date:	6/14/2006
Capacity Gallons:	15000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported

BYRNE DAIRY LAKELAND (Continued) **U004053206**

Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	3/26/2010
Site ID:	365003
Tank Number:	002A
Tank ID:	212128
Tank Status:	In Service
Tank Model:	104
Pipe Model:	Not reported
Install Date:	6/14/2006
Capacity Gallons:	5000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	3/26/2010
Site ID:	365003
Tank Number:	002B
Tank ID:	212129
Tank Status:	In Service
Tank Model:	104
Pipe Model:	Not reported
Install Date:	6/14/2006
Capacity Gallons:	5000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	3/26/2010

M59 **FRED SPICER PROPERTY** **FINDS** **1007794554**
SE **515 HORAN ROAD** **N/A**
> 1 **CAMILLUS, NY 13031**
1.238 mi.
6538 ft. **Site 1 of 5 in cluster M**

Relative:
Higher

Actual:
418 ft.

FINDS:

Registry ID: 110019570604

Environmental Interest/Information System
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking

FRED SPICER PROPERTY (Continued) **1007794554**

environmental facility information found across the State.

60
WSW
> 1
1.242 mi.
6559 ft.

ONONDAGA CO GREENFIELD VILLAGE STP **FINDS** **1007802569**
BRIARHURST LN **N/A**
CAMILLUS, NY 13031

Relative: Higher

Actual: 407 ft.

FINDS:

Registry ID: 110019650965

Environmental Interest/Information System
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

M61
SE
> 1
1.244 mi.
6566 ft.

SLAVIC FULL GOSPEL CHURCH **FINDS** **1008003746**
519 HORAN RD **N/A**
CAMILLUS, NY 13031

Site 2 of 5 in cluster M

Relative: Higher

Actual: 418 ft.

FINDS:

Registry ID: 110020763823

Environmental Interest/Information System
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

M62
SE
> 1
1.246 mi.
6579 ft.

ROTELLA BODY SHOP **NY Spills** **S102122940**
521 HORAN RD **NY Hist Spills** **N/A**
CAMILLUS, NY

Site 3 of 5 in cluster M

Relative: Higher

Actual: 418 ft.

NY Spills:

Site ID:	223676
Facility Addr2:	Not reported
Facility ID:	9203408
Spill Number:	9203408
Facility Type:	ER
SWIS:	3420
Investigator:	MENASH
Referred To:	Not reported
Spill Date:	6/9/1992
Reported to Dept:	6/19/1992
CID:	Not reported
Spill Cause:	Deliberate
Water Affected:	4

ROTELLA BODY SHOP (Continued) **S102122940**

Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	1/12/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	1/12/1993
Remediation Phase:	0
Date Entered In Computer:	7/14/1992
Spill Record Last Update:	1/12/1993
Spiller Name:	Not reported
Spiller Company:	TONY ROTELLA
Spiller Address:	521 HORAN RD
Spiller City,St,Zip:	CAMILLUS, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	184916
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MN"
Remarks:	ANONYMOUS CALLER CLAIMS ROTELLA BODY SHOP DUMPING PAINT SOLVENTS BEHIND BLDG.

Material:

Site ID:	223676
Operable Unit ID:	967222
Operable Unit:	01
Material ID:	411203
Material Code:	1139A
Material Name:	PAINT SOLVENTS
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

ROTELLA BODY SHOP (Continued) **S102122940**

NY Hist Spills:

Region of Spill:	7
Spill Number:	9203408
Investigator:	MN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	06/09/1992 12:00
Reported to Dept Date/Time:	06/19/92 15:35
SWIS:	31
Spiller Name:	TONY ROTELLA
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	521 HORAN RD
Spiller City,St,Zip:	CAMILLUS, NY
Spill Cause:	Deliberate
Reported to Dept:	On Land
Water Affected:	4
Spill Source:	01
Spill Notifier:	Other
PBS Number:	Not reported
Cleanup Ceased:	01/12/93
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	01/12/93
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	07/14/92
Date Spill Entered In Computer Data File:	Not reported
Update Date:	01/12/93
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Hazardous Material
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False

ROTELLA BODY SHOP (Continued) **S102122940**

Material: PAINT SOLVENTS
Class Type: PAINT SOLVENTS
Times Material Entry In File: 1
CAS Number: Not reported
Last Date: Not reported
DEC Remarks: Not reported
Remark: ANONYMOUS CALLER CLAIMS ROTELLA BODY SHOP DUMPING PAINT SOLVENTS BE- HIND BLDG.

M63 **TONY ROTELLAS BODY SHOP INC.** **RCRA-NonGen** **1000440691**
SE **521 HORAN RD** **FINDS** **NYD982540122**
> 1 **SYRACUSE, NY 13219** **MANIFEST**
1.248 mi.
6588 ft. **Site 4 of 5 in cluster M**

Relative:
Higher

Actual:
419 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: TONY ROTELLAS BODY SHOP INC.
Facility address: 521 HORAN RD
SYRACUSE, NY 132191300
EPA ID: NYD982540122
Mailing address: HORAN RD
SYRACUSE, NY 13219
Contact: Not reported
Contact address: HORAN RD
SYRACUSE, NY 13219
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ROTELLA, TONY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: ROTELLA, TONY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown

TONY ROTELLAS BODY SHOP INC. (Continued) **1000440691**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	Unknown
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	TONY ROTELLAS BODY SHOP INC.
Classification:	Not a generator, verified
Date form received by agency:	07/08/1999
Facility name:	TONY ROTELLAS BODY SHOP INC.
Classification:	Not a generator, verified
Date form received by agency:	08/05/1988
Facility name:	TONY ROTELLAS BODY SHOP INC.
Classification:	Small Quantity Generator
Violation Status:	No violations found

FINDS:

Registry ID: 110004424506

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD982540122
Country:	USA
Mailing Name:	TONY ROTELLAS BODY SHOP
Mailing Contact:	TONY ROTELLAS BODY SHOP
Mailing Address:	521 HORAN ROAD
Mailing Address 2:	Not reported
Mailing City:	SYRACUSE
Mailing State:	NY
Mailing Zip:	13219
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-488-6587

TONY ROTELLAS BODY SHOP INC. (Continued) **1000440691**

Document ID:	NYA7421013
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	881216
Trans1 Recv Date:	881216
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881216
Part A Recv Date:	881221
Part B Recv Date:	881222
Generator EPA ID:	NYD982540122
Trans1 EPA ID:	VAD980831580
Trans2 EPA ID:	Not reported
TSDF ID:	NYD043815703
Waste Code:	F005 - UNKNOWN
Quantity:	00315
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	88

Document ID:	NYA8240868
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	890706
Trans1 Recv Date:	890706
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	890710
Part A Recv Date:	890712
Part B Recv Date:	890720
Generator EPA ID:	NYD982540122
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	F005 - UNKNOWN
Quantity:	00095
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	89

Document ID:	NYB1914723
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	900202
Trans1 Recv Date:	900202
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900205
Part A Recv Date:	900416

TONY ROTELLAS BODY SHOP INC. (Continued) **1000440691**

Part B Recv Date:	900214
Generator EPA ID:	NYD982540122
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	F005 - UNKNOWN
Quantity:	00075
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NYB4865067
Manifest Status:	Completed copy
Trans1 State ID:	P52019IL
Trans2 State ID:	Not reported
Generator Ship Date:	941012
Trans1 Recv Date:	941012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	941017
Part A Recv Date:	941019
Part B Recv Date:	941028
Generator EPA ID:	NYD982540122
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	F005 - UNKNOWN
Quantity:	00330
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94

Document ID:	NYB1414665
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	P48760IL
Trans2 State ID:	Not reported
Generator Ship Date:	900913
Trans1 Recv Date:	900913
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	900917
Part A Recv Date:	901004
Part B Recv Date:	901010
Generator EPA ID:	NYD982540122
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	F005 - UNKNOWN
Quantity:	00185
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001

TONY ROTELLAS BODY SHOP INC. (Continued) **1000440691**

Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	90

Document ID:	NYB2387358
Manifest Status:	Completed copy
Trans1 State ID:	P14005
Trans2 State ID:	Not reported
Generator Ship Date:	910409
Trans1 Recv Date:	910409
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910411
Part A Recv Date:	910426
Part B Recv Date:	910418
Generator EPA ID:	NYD982540122
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	F005 - UNKNOWN
Quantity:	00310
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

Document ID:	NYG2374722
Manifest Status:	Not reported
Trans1 State ID:	NYD057770109
Trans2 State ID:	Not reported
Generator Ship Date:	06/29/2000
Trans1 Recv Date:	06/29/2000
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/05/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD982540122
Trans1 EPA ID:	NYD057770109
Trans2 EPA ID:	Not reported
TSDF ID:	202331ANY
Waste Code:	F005 - UNKNOWN
Quantity:	00660
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	012
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	00

Document ID:	NYB2497230
Manifest Status:	Completed copy
Trans1 State ID:	P14005IL

TONY ROTELLAS BODY SHOP INC. (Continued) **1000440691**

Trans2 State ID:	Not reported
Generator Ship Date:	911108
Trans1 Recv Date:	911108
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	911119
Part A Recv Date:	Not reported
Part B Recv Date:	911203
Generator EPA ID:	NYD982540122
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	F005 - UNKNOWN
Quantity:	00220
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	91

Document ID:	NYB5037039
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	P22295IL
Trans2 State ID:	Not reported
Generator Ship Date:	920512
Trans1 Recv Date:	920512
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920518
Part A Recv Date:	Not reported
Part B Recv Date:	920611
Generator EPA ID:	NYD982540122
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	F005 - UNKNOWN
Quantity:	00135
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

N64 **FRANK G. POPE** **UST** **U003314008**
NE **691 STATE FAIR BLVD** **HIST UST** **N/A**
> 1 **SYRACUSE, NY 13209**
1.250 mi.
6601 ft. **Site 1 of 4 in cluster N**

Relative:
Lower

Actual:
380 ft.

UST:

Facility Id:	7-600603
Region:	STATE
DEC Region:	7
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	400115.17758999998

FRANK G. POPE (Continued) **U003314008**

UTM Y: 4770536.4995999997

Affiliation Records:

Site Id: 47040
Affiliation Type: On-Site Operator
Company Name: FRANK G. POPE
Contact Type: Not reported
Contact Name: FRANK POPE
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 487-9075
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 47040
Affiliation Type: Owner
Company Name: FRANK G. POPE
Contact Type: Not reported
Contact Name: Not reported
Address1: 693 STATE FAIR BLVD.
Address2: Not reported
City: SYRACUSE
State: NY
Zip Code: 13209
Country Code: 001
Phone: (315) 487-9075
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 47040
Affiliation Type: Mail Contact
Company Name: FRANK G. POPE
Contact Type: Not reported
Contact Name: Not reported
Address1: 695 STATE FAIR BLVD.
Address2: Not reported
City: SYRACUSE
State: NY
Zip Code: 13209
Country Code: 001
Phone: (315) 487-9075
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 47040

FRANK G. POPE (Continued) **U003314008**

Affiliation Type:	Emergency Contact
Company Name:	FRANK G. POPE
Contact Type:	Not reported
Contact Name:	FRANK POPE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-9075
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
I00 - Overfill - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None

Tank Info:

Site ID:	47040
Tank Number:	1
Tank ID:	138581
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	4000
Tightness Test Method:	NN

FRANK G. POPE (Continued) **U003314008**

Next Test Date:	Not reported
Date Tank Closed:	6/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	47040
Tank Number:	2
Tank ID:	138582
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	3000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	6/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	47040
Tank Number:	3
Tank ID:	138583
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	3000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	6/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	7-600603
SPDES Number:	Not reported
Emergency Contact:	FRANK POPE
Emergency Telephone:	(315) 487-9075
Operator:	FRANK POPE
Operator Telephone:	(315) 487-9075
Owner Name:	FRANK G. POPE
Owner Address:	693 STATE FAIR BLVD.
Owner City,St,Zip:	SYRACUSE, NY 13209

FRANK G. POPE (Continued) **U003314008**

Owner Telephone:	(315) 487-9075
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	FRANK G. POPE
Mailing Address:	695 STATE FAIR BLVD.
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYRACUSE, NY 13209
Mailing Contact:	Not reported
Mailing Telephone:	(315) 487-9075
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	3132
Old PBS Number:	Not reported
Facility Type:	RETAIL GASOLINE SALES
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	Not reported
Expiration Date:	06/12/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	GEDDES
County Code:	31
Town or City:	32
Region:	7

Tank Id:	1
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	4000
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data

FRANK G. POPE (Continued) **U003314008**

Date Closed:	06/01/1998
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	2
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	06/01/1998
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	3
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	06/01/1998
Test Method:	Not reported
Deleted:	False

FRANK G. POPE (Continued) **U003314008**

Updated: True
Lat/long: Not reported

N65 **LUBER INC** **RCRA-NonGen** **1000555973**
NE **690 STATE FAIR BLVD** **FINDS** **NYD986985224**
> 1 **SYRACUSE, NY 13209** **LTANKS**
1.259 mi. **MANIFEST**
6647 ft. **Site 2 of 4 in cluster N**

Relative: Lower

Actual: 380 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: LUBER INC
Facility address: 690 STATE FAIR BLVD
SYRACUSE, NY 132091308
EPA ID: NYD986985224
Mailing address: STATE FAIR BLVD
SYRACUSE, NY 13209
Contact: Not reported
Contact address: STATE FAIR BLVD
SYRACUSE, NY 13209
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: LUBER INC
Owner/operator address: 690 STATE FAIR BLVD
SYRACUSE, NY 13209
Owner/operator country: US
Owner/operator telephone: (315) 487-8787
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: LUBER INC
Owner/operator address: 690 STATE FAIR BLVD
SYRACUSE, NY 13209
Owner/operator country: US
Owner/operator telephone: (315) 487-8787
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No

LUBER INC (Continued) **1000555973**

On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: LUBER INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: LUBER INC
Classification: Not a generator, verified

Date form received by agency: 12/09/1991
Facility name: LUBER INC
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 06/13/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004482168

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LTANKS:
Site ID: 203936
Spill No: 0200904
Spill Date: 4/24/2002
Spill Cause: Tank Failure
Spill Source: Private Dwelling
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 7/21/2003
Facility Addr2: Not reported

LUBER INC (Continued) **1000555973**

Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	3415
Investigator:	CFMANNES
Referred To:	Not reported
Reported to Dept:	4/24/2002
CID:	270
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	4/25/2002
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/24/2002
Spill Record Last Update:	10/6/2003
Spiller Name:	CALLER
Spiller Company:	LUBER INC
Spiller Address:	690 STATE FAIR BLVD
Spiller City,St,Zip:	SYRACUSE, NY
Spiller County:	001
Spiller Contact:	CALLER
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	169580
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks:	tank at location developed a leak. clean up in progress

Material:

Site ID:	203936
Operable Unit ID:	854352
Operable Unit:	01
Material ID:	555497
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	203936
Spill Tank Test:	1527073
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

LUBER INC (Continued) **1000555973**

NY MANIFEST:

EPA ID:	NYD986985224
Country:	USA
Mailing Name:	LUBER HOMES
Mailing Contact:	RAY LUBER
Mailing Address:	690 STATE FAIR BOULEVARD
Mailing Address 2:	Not reported
Mailing City:	SYRACUSE
Mailing State:	NY
Mailing Zip:	13209
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-487-8787

Document ID:	NYB1721043
Manifest Status:	Completed copy
Trans1 State ID:	NXJA1589
Trans2 State ID:	Not reported
Generator Ship Date:	920117
Trans1 Recv Date:	920117
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920117
Part A Recv Date:	Not reported
Part B Recv Date:	920129
Generator EPA ID:	NYD986985224
Trans1 EPA ID:	NYD986941607
Trans2 EPA ID:	Not reported
TSDF ID:	NYD095577342
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00211
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	92

N66 **LUBER INC.** **HIST UST** **U003078247**
NE **690 STATE FAIR BLVD.** **AST** **N/A**
> 1 **SYRACUSE, NY 13209** **HIST AST**
1.259 mi.
6647 ft. **Site 3 of 4 in cluster N**

Relative:
Lower

Actual:
380 ft.

HIST UST:

PBS Number:	7-600076
SPDES Number:	Not reported
Emergency Contact:	RAY LUBER
Emergency Telephone:	(315) 487-8787
Operator:	LUBER INC.
Operator Telephone:	(315) 487-8787
Owner Name:	LUBER INC.
Owner Address:	690 STATE FAIR BLVD.
Owner City,St,Zip:	SYRACUSE, NY 13209
Owner Telephone:	(315) 487-8787
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported

LUBER INC. (Continued) **U003078247**

Mailing Name:	LUBER INC.
Mailing Address:	690 STATE FAIR BLVD.
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYRACUSE, NY 13209
Mailing Contact:	RAYMOND G. LUBER
Mailing Telephone:	(315) 487-8787
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	3132
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	12/20/1996
Expiration Date:	12/16/2001
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	1975
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	GEDDES
County Code:	31
Town or City:	32
Region:	7

Tank Id:	1
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	19751201
Capacity (gals):	2000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	0
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported

LUBER INC. (Continued) **U003078247**

Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 2
Tank Location: UNDERGROUND
Tank Status: Closed-In Place
Install Date: 19751201
Capacity (gals): 2000
Product Stored: EMPTY
Tank Type: Steel/carbon steel
Tank Internal: None
Tank External: Painted/Asphalt Coating
Pipe Location: Underground
Pipe Type: GALVANIZED STEEL
Pipe Internal: None
Pipe External: None
Second Containment: None
Leak Detection: None
Overfill Prot: None
Dispenser: 0
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

AST:
Region: STATE
DEC Region: 7
Site Status: Active
Facility Id: 7-600076
Program Type: PBS
UTM X: 400176.71878
UTM Y: 4770513.38442
Expiration Date: 2011/12/16

Affiliation Records:
Site Id: 46517
Affiliation Type: Mail Contact
Company Name: LUBER INC.
Contact Type: Not reported
Contact Name: RAYMOND G. LUBER
Address1: 690 STATE FAIR BLVD.
Address2: Not reported
City: SYRACUSE
State: NY
Zip Code: 13209
Country Code: 001
Phone: (315) 487-8787
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported

LUBER INC. (Continued) **U003078247**

Modified By:	TRANSLAT
Date Last Modified:	3/4/2004
Site Id:	46517
Affiliation Type:	On-Site Operator
Company Name:	LUBER INC.
Contact Type:	Not reported
Contact Name:	LUBER INC.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-8787
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004
Site Id:	46517
Affiliation Type:	Emergency Contact
Company Name:	LUBER INC.
Contact Type:	Not reported
Contact Name:	RAY LUBER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-8787
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004
Site Id:	46517
Affiliation Type:	Owner
Company Name:	LUBER INC.
Contact Type:	PRESIDENT
Contact Name:	RAYMOND LUBER
Address1:	690 STATE FAIR BLVD.
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-8787
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKemp
Date Last Modified:	11/2/2006

LUBER INC. (Continued) **U003078247**

Equipment Records:

D00 - Pipe Type - No Piping
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction
G01 - Tank Secondary Containment - Diking (Aboveground)
L09 - Piping Leak Detection - Exempt Suction Piping
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
C01 - Pipe Location - Aboveground
F00 - Pipe External Protection - None
I00 - Overfill - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I00 - Overfill - None
H00 - Tank Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction
G01 - Tank Secondary Containment - Diking (Aboveground)
B01 - Tank External Protection - Painted/Asphalt Coating
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D00 - Pipe Type - No Piping
I00 - Overfill - None
I00 - Overfill - None
I00 - Overfill - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
H00 - Tank Leak Detection - None
D10 - Pipe Type - Copper
A00 - Tank Internal Protection - None

LUBER INC. (Continued) **U003078247**

H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
L09 - Piping Leak Detection - Exempt Suction Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction
C01 - Pipe Location - Aboveground
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
C01 - Pipe Location - Aboveground
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
D00 - Pipe Type - No Piping
J02 - Dispenser - Suction
I00 - Overfill - None
J02 - Dispenser - Suction
I00 - Overfill - None
L09 - Piping Leak Detection - Exempt Suction Piping
C01 - Pipe Location - Aboveground
I00 - Overfill - None
D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
D10 - Pipe Type - Copper
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
H00 - Tank Leak Detection - None
I00 - Overfill - None
C01 - Pipe Location - Aboveground
I00 - Overfill - None

LUBER INC. (Continued) **U003078247**

B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Info:

Tank Number:	10
Tank Id:	139947
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/2002
Capacity Gallons:	300
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	11/2/2006

Tank Number:	11
Tank Id:	139948
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/2002
Capacity Gallons:	300
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	11/2/2006

Tank Number:	12
Tank Id:	139949
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/2002
Capacity Gallons:	300
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	11/2/2006

LUBER INC. (Continued) **U003078247**

Tank Number:	3K
Tank Id:	135029
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1982
Capacity Gallons:	300
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	11/2/2006

Tank Number:	4
Tank Id:	135030
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1989
Capacity Gallons:	300
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	11/2/2006

Tank Number:	5
Tank Id:	135031
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1989
Capacity Gallons:	300
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	11/2/2006

Tank Number:	6
Tank Id:	135032
Tank Location:	3

LUBER INC. (Continued) **U003078247**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1989
Capacity Gallons:	300
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	11/2/2006

Tank Number:	7
Tank Id:	135033
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	10/1/1991
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	11/2/2006

Tank Number:	8
Tank Id:	135034
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	10/1/1991
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	11/2/2006

Tank Number:	9
Tank Id:	139946
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported

LUBER INC. (Continued) **U003078247**

Pipe Model:	Not reported
Install Date:	1/1/2002
Capacity Gallons:	500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	11/2/2006

HIST AST:

PBS Number:	7-600076
SWIS Code:	3132
Operator:	LUBER INC.
Facility Phone:	(315) 487-8787
Facility Addr2:	Not reported
Facility Type:	OTHER
Emergency:	RAY LUBER
Emergency Tel:	(315) 487-8787
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	LUBER INC.
Owner Address:	690 STATE FAIR BLVD.
Owner City,St,Zip:	SYRACUSE, NY 13209
Federal ID:	Not reported
Owner Tel:	(315) 487-8787
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	RAYMOND G. LUBER
Mailing Name:	LUBER INC.
Mailing Address:	690 STATE FAIR BLVD.
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYRACUSE, NY 13209
Mailing Telephone:	(315) 487-8787
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	12/20/1996
Expiration:	12/16/2001
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	1975
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	GEDDES
County Code:	31
Town or City Code:	32
Region:	7

LUBER INC. (Continued) **U003078247**

Tank ID:	3K
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	19821201
Capacity (Gal):	300
Product Stored:	KEROSENE
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	4
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	19891201
Capacity (Gal):	300
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID: 5

LUBER INC. (Continued) **U003078247**

Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	19891201
Capacity (Gal):	300
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	6
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	19891201
Capacity (Gal):	300
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	7
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE

LUBER INC. (Continued) **U003078247**

Tank Status:	In Service
Install Date:	19911001
Capacity (Gal):	275
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	FIBERGLASS COATED STEEL
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	8
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	19911001
Capacity (Gal):	500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

N67 **LUBER INC.** **UST** **U004082212**
NE **690 STATE FAIR BLVD** **N/A**
> 1 **SYRACUSE, NY 13209**
1.259 mi.
6647 ft. **Site 4 of 4 in cluster N**

Relative:
Lower

Actual:
380 ft.

UST:

Facility Id:	7-600076
Region:	STATE
DEC Region:	7
Site Status:	Active
Program Type:	PBS
Expiration Date:	2011/12/16
UTM X:	400176.71878
UTM Y:	4770513.38442

Affiliation Records:

Site Id:	46517
Affiliation Type:	Mail Contact
Company Name:	LUBER INC.
Contact Type:	Not reported
Contact Name:	RAYMOND G. LUBER
Address1:	690 STATE FAIR BLVD.
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-8787
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	46517
Affiliation Type:	On-Site Operator
Company Name:	LUBER INC.
Contact Type:	Not reported
Contact Name:	LUBER INC.
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-8787
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	46517
Affiliation Type:	Emergency Contact
Company Name:	LUBER INC.
Contact Type:	Not reported
Contact Name:	RAY LUBER
Address1:	Not reported
Address2:	Not reported

LUBER INC. (Continued) **U004082212**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-8787
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	46517
Affiliation Type:	Owner
Company Name:	LUBER INC.
Contact Type:	PRESIDENT
Contact Name:	RAYMOND LUBER
Address1:	690 STATE FAIR BLVD.
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-8787
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKemp
Date Last Modified:	11/2/2006

Equipment Records:

D00 - Pipe Type - No Piping
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction
G01 - Tank Secondary Containment - Diking (Aboveground)
L09 - Piping Leak Detection - Exempt Suction Piping
L09 - Piping Leak Detection - Exempt Suction Piping
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
C01 - Pipe Location - Aboveground
F00 - Pipe External Protection - None
I00 - Overfill - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I00 - Overfill - None
H00 - Tank Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None

LUBER INC. (Continued) **U004082212**

L09 - Piping Leak Detection - Exempt Suction Piping
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction
G01 - Tank Secondary Containment - Diking (Aboveground)
B01 - Tank External Protection - Painted/Asphalt Coating
D00 - Pipe Type - No Piping
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
J02 - Dispenser - Suction
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
D00 - Pipe Type - No Piping
I00 - Overfill - None
I00 - Overfill - None
I00 - Overfill - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
H00 - Tank Leak Detection - None
D10 - Pipe Type - Copper
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
L09 - Piping Leak Detection - Exempt Suction Piping
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction
C01 - Pipe Location - Aboveground
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
H00 - Tank Leak Detection - None
L09 - Piping Leak Detection - Exempt Suction Piping
C01 - Pipe Location - Aboveground
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
G01 - Tank Secondary Containment - Diking (Aboveground)

LUBER INC. (Continued) **U004082212**

D00 - Pipe Type - No Piping
J02 - Dispenser - Suction
I00 - Overfill - None
J02 - Dispenser - Suction
I00 - Overfill - None
L09 - Piping Leak Detection - Exempt Suction Piping
C01 - Pipe Location - Aboveground
I00 - Overfill - None
D00 - Pipe Type - No Piping
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
D10 - Pipe Type - Copper
A00 - Tank Internal Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
H00 - Tank Leak Detection - None
I00 - Overfill - None
C01 - Pipe Location - Aboveground
I00 - Overfill - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Info:

Site ID:	46517
Tank Number:	1
Tank ID:	135027
Tank Status:	Closed - In Place
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1975
Capacity Gallons:	2000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	46517
Tank Number:	2
Tank ID:	135028
Tank Status:	Closed - In Place
Tank Model:	Not reported

LUBER INC. (Continued) **U004082212**

Pipe Model:	Not reported
Install Date:	12/1/1975
Capacity Gallons:	2000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

L68 **ONONDAGA COUNTY OF DEPT DRAINAGE & SANI** **RCRA-NonGen** **1001028928**
NNE **STATE FAIR BLVD & RTE 5 BYPASS** **FINDS** **NYR000011601**
> 1 **SYRACUSE, NY 13209** **MANIFEST**
1.265 mi.
6681 ft. **Site 13 of 13 in cluster L**

Relative:
Equal

Actual:
399 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	ONONDAGA COUNTY OF DEPT DRAINAGE & SANI
Facility address:	STATE FAIR BLVD & RTE 5 BYPASS LAKE SIDE PUMP STATION SYRACUSE, NY 13209
EPA ID:	NYR000011601
Mailing address:	HIAWATHA BLVD SYRACUSE, NY 132041194
Contact:	Not reported
Contact address:	HIAWATHA BLVD SYRACUSE, NY 132041194
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	County
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	COUNTY OF ONONDAGA DEPT DRAINAGE & SANI
Owner/operator address:	650 HIAWATHA BLVD SYRACUSE, NY 13204
Owner/operator country:	US
Owner/operator telephone:	(315) 435-2260
Legal status:	County
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	COUNTY OF ONONDAGA DEPT DRAINAGE & SANI
Owner/operator address:	650 HIAWATHA BLVD SYRACUSE, NY 13204
Owner/operator country:	US
Owner/operator telephone:	(315) 435-2260
Legal status:	County
Owner/Operator Type:	Operator

ONONDAGA COUNTY OF DEPT DRAINAGE & SANI (Continued) **1001028928**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: ONONDAGA COUNTY OF DEPT DRAINAGE & SANI
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: ONONDAGA COUNTY OF DEPT DRAINAGE & SANI
Classification: Not a generator, verified

Date form received by agency: 08/16/1995
Facility name: ONONDAGA COUNTY OF DEPT DRAINAGE & SANI
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 10/22/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110008091876

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ONONDAGA COUNTY OF DEPT DRAINAGE & SANI (Continued) **1001028928**

NY MANIFEST:

EPA ID:	NYR000011601
Country:	USA
Mailing Name:	ONONDAGA CO DEPT OF DRAINAGE/SANITATION
Mailing Contact:	GARY C SCHAUS
Mailing Address:	650 HIAWATHA BLVD
Mailing Address 2:	Not reported
Mailing City:	SYRACUSE
Mailing State:	NY
Mailing Zip:	13204
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-435-2260

Document ID:	NYB7839054
Manifest Status:	Completed copy
Trans1 State ID:	98114FNY
Trans2 State ID:	Not reported
Generator Ship Date:	950821
Trans1 Recv Date:	950821
Trans2 Recv Date:	950824
TSD Site Recv Date:	950825
Part A Recv Date:	950906
Part B Recv Date:	950913
Generator EPA ID:	NYR000011601
Trans1 EPA ID:	NJD054126164
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980681571
Waste Code:	D018 - BENZENE 0.5 MG/L TCLP
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95

M69 **ALLIED INDUSTRIAL LAUNDRIES** **DRYCLEANERS** **S110245872**
SE **537 HORAN RD** **N/A**
> 1 **CAMILLUS, NY 13031**
1.267 mi.
6689 ft. **Site 5 of 5 in cluster M**

Relative:
Higher

Actual:
418 ft.

DRYCLEANERS:

Facility ID:	7-3120-00075
Owner:	Not reported
Phone Number:	Not reported
Region:	7
Registration Effective Date:	Not reported
Inspection Date:	Not reported
Drop Shop:	Not reported
Shutdown:	Not reported
Alternate Solvent:	Not reported
Current Business:	???

70
NW
> 1
1.294 mi.
6833 ft.

RUNOFF CREEK
3576 KIRK RD
WARNERS, NY

NY Spills **S103573690**
NY Hist Spills **N/A**

Relative:
Lower

Actual:
393 ft.

NY Spills:

Site ID:	194648
Facility Addr2:	Not reported
Facility ID:	9809595
Spill Number:	9809595
Facility Type:	ER
SWIS:	3400
Investigator:	CFMANNES
Referred To:	Not reported
Spill Date:	10/30/1998
Reported to Dept:	10/30/1998
CID:	323
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	11/4/1998
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	11/4/1998
Remediation Phase:	0
Date Entered In Computer:	10/30/1998
Spill Record Last Update:	1/19/1999
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	TRACY MASI
Contact Phone:	(315) 487-8960
DEC Region:	7
DER Facility ID:	162201
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" INSPECTION REVEALED SHEEN WAS OF ORGANIC NATURE
Remarks:	RUN OFF CREEK NEXT TO THE RESIDENCE APPEARS TO HAVE SOME TYPE OF SHEEN ON IT. UNKNOWN WHERE IT IS COMING FROM.

Material:

Site ID:	Not reported
Operable Unit ID:	Not reported
Operable Unit:	Not reported
Material ID:	Not reported
Material Code:	Not reported
Material Name:	Not reported
Case No.:	Not reported
Material FA:	Not reported
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported

RUNOFF CREEK (Continued) **S103573690**

Resource Affected: Not reported
Oxygenate: Not reported

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9809595
Investigator: CM
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 10/30/1998 12:00
Reported to Dept Date/Time: 10/30/98 14:38
SWIS: 31
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Contact: TRACY MASI
Spiller Phone: (315) 487-8960
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Citizen
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: 11/04/98
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt: 11/04/98
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /

RUNOFF CREEK (Continued) **S103573690**

Date Spill Entered In Computer Data File: 10/30/98
Date Spill Entered In Computer Data File: Not reported
Update Date: 01/19/99
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Not reported
Quantity Spilled: Not reported
Unkonwn Quantity Spilled: Not reported
Units: Not reported
Quantity Recovered: Not reported
Unkonwn Quantity Recovered: Not reported
Material: Not reported
Class Type: Not reported
Times Material Entry In File: Not reported
CAS Number: Not reported
Last Date: Not reported
DEC Remarks: INSPECTION REVEALED SHEEN WAS OF ORGANIC NATURE
Remark: RUN OFF CREEK NEXT TO THE RESIDENCE APPEARS TO HAVE SOME TYPE OF SHEEN ON IT. UNKNOWN WHERE IT IS COMING FROM.

O71 **ESTATE OF JOHN S. FACIK** **UST U003749771**
ENE **670 STATE FAIR BLVD** **HIST UST N/A**
> 1 **SYRACUSE, NY 13209**
1.308 mi.
6904 ft. **Site 1 of 2 in cluster O**

Relative:
Lower

Actual:
370 ft.

UST:
Facility Id: 7-600747
Region: STATE
DEC Region: 7
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 400624.61157000001
UTM Y: 4770138.6365

Affiliation Records:
Site Id: 47183
Affiliation Type: Emergency Contact
Company Name: CAROL J. ASCIOTI
Contact Type: Not reported
Contact Name: ANTHONY ASCIOTI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 487-0302
Phone Ext: Not reported

ESTATE OF JOHN S. FACIK (Continued) **U003749771**

Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	47183
Affiliation Type:	On-Site Operator
Company Name:	ESTATE OF JOHN S. FACIK
Contact Type:	Not reported
Contact Name:	N\\A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	Not reported
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	47183
Affiliation Type:	Owner
Company Name:	CAROL J. ASCIOTI
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	304 HATHERLEIGH RD.
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-0302
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	47183
Affiliation Type:	Mail Contact
Company Name:	AAA FABRIZIO ENTERPRISES, INC.
Contact Type:	Not reported
Contact Name:	JOHN H. FLETCHER
Address1:	110 BRIDGE ST.
Address2:	Not reported
City:	SOLVAY
State:	NY
Zip Code:	13027
Country Code:	001
Phone:	(315) 487-4467
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT

ESTATE OF JOHN S. FACIK (Continued) **U003749771**

Date Last Modified: 3/4/2004

Equipment Records:

B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H00 - Tank Leak Detection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground

Tank Info:

Site ID:	47183
Tank Number:	001
Tank ID:	139431
Tank Status:	Tank Converted to Non-Regulated Use
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	8/1/1996
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	47183
Tank Number:	002
Tank ID:	139432
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1000

ESTATE OF JOHN S. FACIK (Continued) **U003749771**

Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	5/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	47183
Tank Number:	003
Tank ID:	139433
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	5/1/1998
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	7-600747
SPDES Number:	Not reported
Emergency Contact:	ANTHONY ASCIOTI
Emergency Telephone:	(315) 487-0302
Operator:	N\\A
Operator Telephone:	(000) 000-0000
Owner Name:	CAROL J. ASCIOTI
Owner Address:	304 HATHERLEIGH RD.
Owner City,St,Zip:	SYRACUSE, NY 13209
Owner Telephone:	(315) 487-0302
Owner Type:	Private Resident
Owner Subtype:	Not reported
Mailing Name:	AAA FABRIZIO ENTERPRISES, INC.
Mailing Address:	110 BRIDGE ST.
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SOLVAY, NY 13027
Mailing Contact:	JOHN H. FLETCHER
Mailing Telephone:	(315) 487-4467
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	3132
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported

ESTATE OF JOHN S. FACIK (Continued) **U003749771**

Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	Not reported
Expiration Date:	08/08/2005
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	GEDDES
County Code:	31
Town or City:	32
Region:	7

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Tank Converted To Non-Regulated Use
Install Date:	Not reported
Capacity (gals):	1000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	0
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	08/01/1996
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	1000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON

ESTATE OF JOHN S. FACIK (Continued) **U003749771**

Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	0
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	05/01/1998
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	1000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	0
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	05/01/1998
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

O72 **670 STATE FAIR BLVD** **NY Spills** **S104504283**
ENE **670 STATE FAIR BLVD** **NY Hist Spills** **N/A**
> 1 **GEDDES, NY**
1.308 mi.
6904 ft. **Site 2 of 2 in cluster O**

Relative:
Lower

Actual:
370 ft.

NY Spills:

Site ID:	174391
Facility Addr2:	Not reported
Facility ID:	9713115
Spill Number:	9713115
Facility Type:	ER
SWIS:	3432
Investigator:	CFMANNES
Referred To:	Not reported
Spill Date:	2/24/1998

670 STATE FAIR BLVD (Continued) **S104504283**

Reported to Dept:	2/24/1998
CID:	205
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Police Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/6/2002
Remediation Phase:	0
Date Entered In Computer:	2/24/1998
Spill Record Last Update:	8/6/2002
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	CALLER
Contact Phone:	(315) 435-8881
DEC Region:	7
DER Facility ID:	146675
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks:	substance that smells like gasoline coming into parking lot from some type of underground pipe. fire dept on scene. request dec to scene.

Material:

Site ID:	Not reported
Operable Unit ID:	Not reported
Operable Unit:	Not reported
Material ID:	Not reported
Material Code:	Not reported
Material Name:	Not reported
Case No.:	Not reported
Material FA:	Not reported
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	Not reported

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

670 STATE FAIR BLVD (Continued) **S104504283**

NY Hist Spills:

Region of Spill:	7
Spill Number:	9713115
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	02/24/1998 13:00
Reported to Dept Date/Time:	02/24/98 13:20
SWIS:	31
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Contact:	CALLER
Spiller Phone:	(315) 435-8881
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Unknown
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	12
Spill Notifier:	Police Department
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	02/24/98
Date Spill Entered In Computer Data File:	Not reported
Update Date:	02/24/98
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Not reported
Quantity Spilled:	Not reported
Unkonwn Quantity Spilled:	Not reported
Units:	Not reported
Quantity Recovered:	Not reported

670 STATE FAIR BLVD (Continued) **S104504283**

Unkonwn Quantity Recovered: Not reported
Material: Not reported
Class Type: Not reported
Times Material Entry In File: Not reported
CAS Number: Not reported
Last Date: Not reported
DEC Remarks: Not reported
Remark: substance that smells like gasoline coming into parking lot from some type of underground pipe. fire dept on scene. request dec to scene.

P73 **CAMILLUS PUMP STATION** **CBS AST** **S104074587**
South **4718 MILTON AVENUE** **N/A**
> 1 **CAMILLUS, NY 13031**
1.309 mi.
6911 ft. **Site 1 of 2 in cluster P**

Relative:
Higher

Actual:
449 ft.

CBS AST:
CBS Number: 7-000292
Region: STATE
ICS Number: Not reported
PBS Number: 7-394394
MOSF Number: Not reported
Telephone: (315) 435-6935
Facility Town: CAMILLUS
Operator: VANCE WOODS
Emrgncy Contact: METRO OPERATIONS BOARD
Emrgncy Phone: (315) 435-3142
Expiration Date: 06/04/2002
Owner Name: ONONDAGA COUNTY
Owner Address: 650 HIAWATHA BLVD. WEST
Owner City,St,Zip: SYRACUSE, NY 13204
Owner Telephone: (315) 435-2260
Owner type: Local Government
Facility Type: TRUCKING/TRANSPORTATION
Mail Name: ONONDAGA COUNTY DEPT OF DRAINAGE AND SANITATION
Mail Contact Addr: 650 HIAWATHA BLVD. WEST
Mail Contact Addr2: Not reported
Mail Contact Contact: RICHARD L. ELANDER, P.E. ACTIN
Mail Contact City,St,Zip: SYRACUSE, NY 13204-1194
Mail Phone: (315) 435-2260
SPDES Number: Not reported
Facility Status: ACTIVE FACILITY
Owner Sub Type: Not reported

Tank Id: 502
Date Entered: 06/01/1998
Capacity (Gal): 4250
Chemical: Ferrous chloride
Tank Closed: Not reported
Tank Status: In Service
Tank Type: Fiberglass coated steel
Install Date: 05/98
Certified Date: 05/19/2000
CAS Number: 7758943
Substance: Single Hazardous Substance on DEC List
Tank Location: ABOVEGROUND
Intrnl Protection: None
Extrnl Protection: None,None

CAMILLUS PUMP STATION (Continued) **S104074587**

Pipe Location:	Aboveground/Underground Combination
Pipe Type:	FIBERGLASS REINFORCED PLASTIC
Pipe Internal:	None
Pipe External:	00
Pipe Containment:	None,Fiberglass
Tank Containment:	None,Other
Leak Detection:	None,Painted/Asphalt Coating
Overfill Protection:	High Level Alarm,Fiberglass
Haz Percent:	100
Total Tanks:	2
Tank Secret:	False
Last Test:	Not reported
Due Date:	Not reported
Tank Error Status:	No Missing Data
SWIS Code:	3120
Lat/Long:	Not reported
Pipe Flag:	False
Federal ID:	Not reported
Is Updated:	F
Renew Date:	Not reported
Is it There:	F
Deliquent:	F
Date Expired:	Not reported
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	03/01/2000
Total Capacity of All Active Tanks(gal):	8500

Tank Id:	501
Date Entered:	06/01/1998
Capacity (Gal):	4250
Chemical:	Ferrous chloride
Tank Closed:	Not reported
Tank Status:	In Service
Tank Type:	Fiberglass coated steel
Install Date:	05/98
Certified Date:	05/19/2000
CAS Number:	7758943
Substance:	Single Hazardous Substance on DEC List
Tank Location:	ABOVEGROUND
Intrnl Protection:	None
Extrnl Protection:	None,None
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	FIBERGLASS REINFORCED PLASTIC
Pipe Internal:	None
Pipe External:	00
Pipe Containment:	None,Fiberglass
Tank Containment:	None,Other
Leak Detection:	None,Painted/Asphalt Coating
Overfill Protection:	High Level Alarm,Fiberglass
Haz Percent:	100
Total Tanks:	2
Tank Secret:	False
Last Test:	Not reported

CAMILLUS PUMP STATION (Continued) **S104074587**

Due Date:	Not reported
Tank Error Status:	No Missing Data
SWIS Code:	3120
Lat/Long:	Not reported
Pipe Flag:	False
Federal ID:	Not reported
Is Updated:	F
Renew Date:	Not reported
Is it There:	F
Deliquent:	F
Date Expired:	Not reported
Owner Mark:	1
Certificate Needs to be Printed:	False
Fiscal Amt for Registration Fee Correct:	True
Renewal Has Been Printed for Facility:	True
Pre-Printed Renewal App Last Printed:	03/01/2000
Total Capacity of All Active Tanks(gal):	8500

P74 **CAMILLUS PUMP STATION** **HIST UST** **U003313414**
South **4718 MILTON AVE.** **AST** **N/A**
> 1 **CAMILLUS, NY 13031** **HIST AST**
1.309 mi.
6911 ft. **Site 2 of 2 in cluster P**

Relative:
Higher

Actual:
449 ft.

HIST UST:

PBS Number:	7-394394
SPDES Number:	Not reported
Emergency Contact:	METRO OPERATIONS BOARD
Emergency Telephone:	(315) 435-3142
Operator:	KEN WICKERT
Operator Telephone:	(315) 435-2260
Owner Name:	ONONDAGA COUNTY DEPT. OF DRAINAGE & SANITATION
Owner Address:	650 HIAWATHA BLVD. WEST
Owner City,St,Zip:	SYRACUSE, NY 13204
Owner Telephone:	(315) 435-2260
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Name:	ONONDAGA COUNTY DEPT. OF DRAINAGE & SANITATION
Mailing Address:	650 HIAWATHA BLVD. WEST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYRACUSE, NY 13204
Mailing Contact:	RICHARD ELANDER, P.E.
Mailing Telephone:	(315) 435-2260
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	3120
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	12/13/1999
Expiration Date:	07/20/2002

CAMILLUS PUMP STATION (Continued) **U003313414**

Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	2000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	CAMILLUS
County Code:	31
Town or City:	20
Region:	7

Tank Id:	099
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19840601
Capacity (gals):	2000
Product Stored:	DIESEL
Tank Type:	Fiberglass reinforced plastic [FRP]
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	09/01/1997
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	11/01/1999
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	7
Site Status:	Active
Facility Id:	7-394394
Program Type:	PBS
UTM X:	396835.39833
UTM Y:	4767410.0298199998
Expiration Date:	2012/07/20

Affiliation Records:

Site Id:	45577
Affiliation Type:	Mail Contact
Company Name:	ONONDAGA COUNTY DEPT. OF WATER ENV. PROTECTION
Contact Type:	COMMISSIONER
Contact Name:	RANDY R OTT, PE
Address1:	650 HIAWATHA BLVD. WEST

CAMILLUS PUMP STATION (Continued) **U003313414**

Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13204-1194
Country Code:	001
Phone:	(315) 435-6820
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	12/31/2009

Site Id:	45577
Affiliation Type:	Owner
Company Name:	ONONDAGA COUNTY DEPT. OF WATER ENV. PROTECTION
Contact Type:	COMMISSIONER
Contact Name:	RANDY R OTT, PE
Address1:	650 HIAWATHA BLVD. WEST
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13204-1194
Country Code:	001
Phone:	(315) 435-6820
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	12/31/2009

Site Id:	45577
Affiliation Type:	On-Site Operator
Company Name:	CAMILLUS PUMP STATION
Contact Type:	Not reported
Contact Name:	TIM DAVIS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 435-6930
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	3/12/2009

Site Id:	45577
Affiliation Type:	Emergency Contact
Company Name:	ONONDAGA COUNTY DEPT. OF WATER ENV. PROTECTION
Contact Type:	Not reported
Contact Name:	METRO OPERATIONS BOARD
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

CAMILLUS PUMP STATION (Continued) **U003313414**

Zip Code:	Not reported
Country Code:	999
Phone:	(315) 435-3142
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	3/12/2009

Equipment Records:

H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
G01 - Tank Secondary Containment - Diking (Aboveground)
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
H00 - Tank Leak Detection - None
D11 - Pipe Type - Flexible Piping
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
I02 - Overfill - High Level Alarm
B00 - Tank External Protection - None
I02 - Overfill - High Level Alarm
C02 - Pipe Location - Underground/On-ground
K00 - Spill Prevention - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L09 - Piping Leak Detection - Exempt Suction Piping
J00 - Dispenser - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C03 - Pipe Location - Aboveground/Underground Combination
C01 - Pipe Location - Aboveground
E04 - Piping Secondary Containment - Double-Walled (Underground)
G09 - Tank Secondary Containment - Modified Double-Walled (Aboveground)
D01 - Pipe Type - Steel/Carbon Steel/Iron
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

Tank Info:

Tank Number:	403
Tank Id:	139247
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	204
Pipe Model:	Not reported
Install Date:	11/1/1999

CAMILLUS PUMP STATION (Continued) **U003313414**

Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	7/9/2007

Tank Number:	423
Tank Id:	140231
Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	11/1/1999
Capacity Gallons:	25
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	7/9/2007

HIST AST:

PBS Number:	7-394394
SWIS Code:	3120
Operator:	KEN WICKERT
Facility Phone:	(315) 435-2260
Facility Addr2:	Not reported
Facility Type:	OTHER
Emergency:	METRO OPERATIONS BOARD
Emergency Tel:	(315) 435-3142
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	ONONDAGA COUNTY DEPT. OF DRAINAGE & SANITATION
Owner Address:	650 HIAWATHA BLVD. WEST
Owner City,St,Zip:	SYRACUSE, NY 13204
Federal ID:	Not reported
Owner Tel:	(315) 435-2260
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	RICHARD ELANDER, P.E.
Mailing Name:	ONONDAGA COUNTY DEPT. OF DRAINAGE & SANITATION
Mailing Address:	650 HIAWATHA BLVD. WEST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYRACUSE, NY 13204
Mailing Telephone:	(315) 435-2260
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.

CAMILLUS PUMP STATION (Continued) **U003313414**

Certification Flag:	False
Certification Date:	12/13/1999
Expiration:	07/20/2002
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	CAMILLUS
County Code:	31
Town or City Code:	20
Region:	7
Tank ID:	403
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19991101
Capacity (Gal):	2000
Product Stored:	DIESEL
Tank Type:	Other
Tank Internal:	0
Tank External:	00
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	FIBERGLASS REINFORCED PLASTIC
Pipe Internal:	None
Pipe External:	09
Tank Containment:	Other
Leak Detection:	02
Overfill Protection:	25
Dispenser Method:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

75
SSE
> 1
1.310 mi.
6915 ft.

NYSDOT BIN 1093480
STATE RTE 173 OVER STATE RTE 5
CAMILLUS, NY 13031

RCRA-NonGen **1000552979**
FINDS **NYD986953859**
MANIFEST

Relative:
Higher

Actual:
483 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	NYSDOT BIN 1093480
Facility address:	STATE RTE 173 OVER STATE RTE 5 CAMILLUS, NY 13031
EPA ID:	NYD986953859
Mailing address:	S WARREN ST SUITE 518 SYRACUSE, NY 13202

NYSDOT BIN 1093480 (Continued) **1000552979**

Contact: ROBERT TRENDELL
Contact address: S WARREN ST SUITE 518
SYRACUSE, NY 13202
Contact country: US
Contact telephone: (315) 458-1910
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NYSDOT
Owner/operator address: 333 E WASHINGTON ST
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 448-7349
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYSDOT
Owner/operator address: 333 E WASHINGTON ST
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 428-4400
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYSDOT BIN 1093480
Classification: Not a generator, verified

Date form received by agency: 03/12/1998

NYSDOT BIN 1093480 (Continued) **1000552979**

Facility name: NYSDOT BIN 1093480
Classification: Not a generator, verified

Date form received by agency: 05/19/1992
Facility name: NYSDOT BIN 1093480
Site name: NYSDOT
Classification: Large Quantity Generator

Date form received by agency: 12/10/1991
Facility name: NYSDOT BIN 1093480
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110008051721

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD986953859
Country: USA
Mailing Name: NYSDOT
Mailing Contact: KEVIN BAILEY
Mailing Address: 877 STATE FAIR BOULEVARD
Mailing Address 2: Not reported
Mailing City: SYRACUSE
Mailing State: NY
Mailing Zip: 13201
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 315-488-1879

Document ID: NJA2748286
Manifest Status: Not reported
Trans1 State ID: NYD046765574
Trans2 State ID: Not reported
Generator Ship Date: 08/04/1998
Trans1 Recv Date: 08/04/1998
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/07/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD986953859
Trans1 EPA ID: NJD991291105
Trans2 EPA ID: Not reported
TSDF ID: S8424
Waste Code: D008 - LEAD 5.0 MG/L TCLP

NYSDOT BIN 1093480 (Continued) **1000552979**

Quantity:	01200
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	98

Document ID:	MIA2374931
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	911127
Trans1 Recv Date:	911127
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	911204
Part A Recv Date:	Not reported
Part B Recv Date:	911230
Generator EPA ID:	NYD986953859
Trans1 EPA ID:	NYD046765574
Trans2 EPA ID:	Not reported
TSDF ID:	MID000724831
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	06300
Units:	P - Pounds
Number of Containers:	009
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	91

Q76 **BTWN BENNETT & POTTERY** **NY Spills S102124622**
West **WARNERS RD** **NY Hist Spills N/A**
> 1 **CAMILLUS, NY**
1.311 mi.
6922 ft. **Site 1 of 2 in cluster Q**

Relative:
Higher

Actual:
406 ft.

NY Spills:

Site ID:	195063
Facility Addr2:	Not reported
Facility ID:	9610405
Spill Number:	9610405
Facility Type:	ER
SWIS:	3400
Investigator:	CFMANNES
Referred To:	Not reported
Spill Date:	11/19/1996
Reported to Dept:	11/19/1996
CID:	365
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended

BTWN BENNETT & POTTERY (Continued) **S102124622**

UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt:	11/19/1996
Remediation Phase:	0
Date Entered In Computer:	11/19/1996
Spill Record Last Update:	11/20/1996
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	CALLER
Contact Phone:	(315) 435-5415
DEC Region:	7
DER Facility ID:	280183
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks:	about a 1 mile stretch of oil products was left on the pavement road is being sanded down now

Material:

Site ID:	195063
Operable Unit ID:	1041944
Operable Unit:	01
Material ID:	342617
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	9610405
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported

BTWN BENNETT & POTTERY (Continued) **S102124622**

Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 11/19/1996 15:50
Reported to Dept Date/Time: 11/19/96 16:10
SWIS: 31
Spiller Name: UNKNOWN
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Contact: CALLER
Spiller Phone: (315) 435-5415
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Unknown
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt: 11/19/96
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 11/19/96
Date Spill Entered In Computer Data File: Not reported
Update Date: 11/20/96
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: MOTOR OIL
Class Type: MOTOR OIL
Times Material Entry In File: 508
CAS Number: Not reported
Last Date: 19940728

BTWN BENNETT & POTTERY (Continued) **S102124622**

DEC Remarks: Not reported
Remark: about a 1 mile stretch of oil products was left on the pavement road is being sanded down now

Region of Spill: 7
Spill Number: 8911426
Investigator: MN
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 03/14/1990 14:32
Reported to Dept Date/Time: 03/04/90 14:56
SWIS: 31
Spiller Name: OLD ERIE CANAL PARK
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: WARNERS/THOMPSON RD
Spiller City,St,Zip: CAMILLUS, NY
Spill Cause: Unknown
Reported to Dept: Surface Water
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Fire Department
PBS Number: Not reported
Cleanup Ceased: 03/04/90
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 03/04/90
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 03/28/90
Date Spill Entered In Computer Data File: Not reported
Update Date: 04/09/90
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0

BTWN BENNETT & POTTERY (Continued) **S102124622**

Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: ABANDONED TRUCK FOUND IN CANAL. FIRE DEPT CALLEDIN AND REMOVED VEH.

Q77 **OLD ERIE CANAL** **NY Spills** **S107407972**
West **WARNERS RD/THOMPSON RD** **N/A**
> 1 **CAMILLUS, NY**
1.311 mi.
6922 ft. **Site 2 of 2 in cluster Q**

Relative:
Higher

Actual:
406 ft.

NY Spills:
Site ID: 299381
Facility Addr2: Not reported
Facility ID: 8911426
Spill Number: 8911426
Facility Type: ER
SWIS: 3420
Investigator: MENASH
Referred To: Not reported
Spill Date: 3/14/1990
Reported to Dept: 3/4/1990
CID: Not reported
Spill Cause: Unknown
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Fire Department
Cleanup Ceased: 3/4/1990
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Not reported
Spill Closed Dt: 3/4/1990
Remediation Phase: 0
Date Entered In Computer: 3/28/1990
Spill Record Last Update: 4/9/1990
Spiller Name: Not reported
Spiller Company: OLD ERIE CANAL PARK
Spiller Address: WARNERS/THOMPSON RD
Spiller City,St,Zip: CAMILLUS, NY
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 7
DER Facility ID: 242205
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MN"
Remarks: ABANDONED TRUCK FOUND IN CANAL. FIRE DEPT CALLEDIN AND REMOVED VEH.

Material:
Site ID: 299381
Operable Unit ID: 937105
Operable Unit: 01

OLD ERIE CANAL (Continued) **S107407972**

Material ID: 440951
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

R78 **NMPC GERESLOCK SUBSTATION** **RCRA-NonGen** **1000871511**
SE **HORAN RD - 0.6 MI N OF** **FINDS** **NY0000060087**
> 1 **GEDDES, NY 13209**
1.328 mi.
7014 ft. **Site 1 of 3 in cluster R**

Relative:
Higher

Actual:
430 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: NMPC GERESLOCK SUBSTATION
Facility address: HORAN RD - 0.6 MI N OF
MILTON AVE
GEDDES, NY 13209
EPA ID: NY0000060087
Mailing address: HENRY CLAY BLVD-HAZ WASTE
LIVERPOOL, NY 13088
Contact: Not reported
Contact address: HENRY CLAY BLVD-HAZ WASTE
LIVERPOOL, NY 13088
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NIAGARA MOHAWK POWER CORP
Owner/operator address: 300 ERIE BLVD W ENV AFF C-1
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 428-6670
Legal status: Private
Owner/Operator Type: Operator

NMPC GERESLOCK SUBSTATION (Continued) **1000871511**

Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NIAGARA MOHAWK POWER CORP
Owner/operator address: 300 ERIE BLVD W ENV AFF C-1
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 428-6670
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NMPC GERESLOCK SUBSTATION
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: NMPC GERESLOCK SUBSTATION
Classification: Not a generator, verified

Date form received by agency: 08/18/1993
Facility name: NMPC GERESLOCK SUBSTATION
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110007982807

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

NMPC GERESLOCK SUBSTATION (Continued) **1000871511**

corrective action activities required under RCRA.

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79 **ABANDONED DRUMS** **NY Spills** **S102125470**
ENE **SOLVAY FAIRGROUNDS EXIT** **NY Hist Spills** **N/A**
> 1 **SOLVAY, NY**
1.346 mi.
7104 ft.

Relative:
Lower

Actual:
373 ft.

NY Spills:

Site ID:	158152
Facility Addr2:	Not reported
Facility ID:	9311049
Spill Number:	9311049
Facility Type:	ER
SWIS:	3400
Investigator:	GREGG
Referred To:	Not reported
Spill Date:	12/12/1993
Reported to Dept:	12/12/1993
CID:	Not reported
Spill Cause:	Abandoned Drums
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Citizen
Cleanup Ceased:	12/13/1993
Cleanup Meets Std:	True
Last Inspection:	12/13/1993
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt:	12/13/1993
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	UNK
Spiller Address:	Not reported
Spiller City,St,Zip:	***UPDATE***, ZZ
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	133700
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TG"
Remarks:	INVESTIGATION REVEALED DRUMS ARE FILLED WITH PAINT CHIPS.

Material:

Site ID:	158152
Operable Unit ID:	992930
Operable Unit:	01
Material ID:	390108
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0

ABANDONED DRUMS (Continued) **S102125470**

Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9311049
Investigator: TG
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 12/12/1993 15:30
Reported to Dept Date/Time: 12/12/93 23:16
SWIS: 31
Spiller Name: UNK
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Abandoned Drums
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Citizen
PBS Number: Not reported
Cleanup Ceased: 12/13/93
Cleanup Meets Std: True
Last Inspection: 12/13/93
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: No spill occured. No DEC Response. No corrective action required.
Spill Closed Dt: 12/13/93
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 12/13/93
Date Spill Entered In Computer Data File: Not reported

ABANDONED DRUMS (Continued) **S102125470**

Update Date: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: INVESTIGATION REVEALED DRUMS ARE FILLED WITH PAINT CHIPS.

S80 **SOLVAY HIGHWAY GARAGE** **UST** **U004080124**
SE **3143 MILTON AVE** **N/A**
> 1 **SOLVAY, NY 13209**
1.346 mi.
7107 ft. **Site 1 of 7 in cluster S**

Relative:
Higher

Actual:
445 ft.

UST:
Facility Id: 7-030848
Region: STATE
DEC Region: 7
Site Status: Active
Program Type: PBS
Expiration Date: 2012/10/29
UTM X: 399770.46782999998
UTM Y: 4767896.5145899998

Affiliation Records:
Site Id: 44181
Affiliation Type: Emergency Contact
Company Name: SOLVAY HIGHWAY GARAGE
Contact Type: Not reported
Contact Name: SOLVAY POLICE DEPT.
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 468-2521
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT

SOLVAY HIGHWAY GARAGE (Continued) **U004080124**

Date Last Modified:	3/4/2004
Site Id:	44181
Affiliation Type:	On-Site Operator
Company Name:	SOLVAY HIGHWAY GARAGE
Contact Type:	Not reported
Contact Name:	MARK J CAZZOLLI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 468-1606
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	7/3/2009
Site Id:	44181
Affiliation Type:	Owner
Company Name:	SOLVAY HIGHWAY GARAGE
Contact Type:	HIGHWAY SUPERINTENDENT
Contact Name:	MARK J CAZZOLLI
Address1:	3143 MILTON AVE.
Address2:	Not reported
City:	SOLVAY
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 468-1606
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	7/3/2009
Site Id:	44181
Affiliation Type:	Mail Contact
Company Name:	SOLVAY HIGHWAY GARAGE
Contact Type:	Not reported
Contact Name:	HIGHWAY SUPERINTENDANT
Address1:	3143 MILTON AVE.
Address2:	Not reported
City:	SOLVAY
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 468-1606
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

SOLVAY HIGHWAY GARAGE (Continued) **U004080124**

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
C03 - Pipe Location - Aboveground/Underground Combination
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
D02 - Pipe Type - Galvanized Steel
I00 - Overfill - None
A00 - Tank Internal Protection - None
J00 - Dispenser - None
A00 - Tank Internal Protection - None
J00 - Dispenser - None
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
I00 - Overfill - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
K01 - Spill Prevention - Catch Basin

Tank Info:

Site ID:	44181
Tank Number:	001
Tank ID:	131999
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	4/1/1978
Capacity Gallons:	4000
Tightness Test Method:	01
Next Test Date:	Not reported
Date Tank Closed:	6/1/1994
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	2/1/1988
Register:	True

SOLVAY HIGHWAY GARAGE (Continued) **U004080124**

Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	44181
Tank Number:	002
Tank ID:	132000
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	4/1/1978
Capacity Gallons:	2000
Tightness Test Method:	01
Next Test Date:	Not reported
Date Tank Closed:	12/1/1993
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	2/1/1988
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

S81 **SOLVAY HIGHWAY GARAGE** **LTANKS** **U003078099**
SE **3143 MILTON AVE** **HIST LTANKS** **N/A**
> 1 **SOLVAY, NY** **HIST UST**
1.346 mi. **AST**
7107 ft. **Site 2 of 7 in cluster S** **HIST AST**
NY Spills

Relative: Higher

Actual: 445 ft.

LTANKS:

Site ID:	284446
Spill No:	9310914
Spill Date:	12/8/1993
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/10/1994
Facility Addr2:	Not reported
Cleanup Ceased:	11/10/1994
Cleanup Meets Standard:	False
SWIS:	3400
Investigator:	CFMANNES
Referred To:	Not reported
Reported to Dept:	12/8/1993
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	12/9/1993
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	12/10/1993
Spill Record Last Update:	12/12/1994
Spiller Name:	Not reported
Spiller Company:	(V) OF SOLVAY HIGHWAY
Spiller Address:	3143 MILTON AVE
Spiller City,St,Zip:	SOLVAY, ZZ

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	230658
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" 12/09/93: MET W/ MARK MALLARO HIGH SUPER. DRAINING TANK WILL CONTACT PBS. AND REMOVE. 02/14/94: DIESEL TNK REMOVED. ENCLAPSALTED IN CONCRETE. SHEEEN ON GRDH2O. MAY PULL GASOLINE TNK, AWAIT SOLVAYS DECISION TO PULL OR CONTINUE USE. 09/28/95: This is additional information about material spilled from the translation of the old spill file: TANK FAILURE.
Remarks:	TANK TEST FAILURE -0.47 GPH, 2K TANK.

Material:

Site ID:	284446
Operable Unit ID:	992787
Operable Unit:	01
Material ID:	389978
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	9310914
Spill Date:	12/08/1993
Spill Time:	12:40
Spill Cause:	Tank Test Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Non Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/10/94
Cleanup Ceased:	11/10/94

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

Cleanup Meets Standard:	False
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	12/08/93
Reported to Department Time:	13:08
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	(V) OF SOLVAY HIGHWAY
Spiller Address:	3143 MILTON AVE
Spiller City,St,Zip:	SOLVAY
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	(315) 468-1606
Facility Extention:	Not reported
Spill Notifier:	Tank Tester
PBS Number:	Not reported
Last Inspection:	12/09/93
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	12/10/93
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	12/12/94
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	DIESEL
Class Type:	DIESEL
Times Material Entry In File:	10625
CAS Number:	Not reported
Last Date:	19940728

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

DEC Remarks: 12/09/93: MET W/ MARK MALLARO HIGH SUPER. DRAINING TANK WILL CONTACT PBS. AND REMOVE. 02/14/94: DIESEL TNK REMOVED. ENCLAPSALTED IN CONCRETE. SHEEEN ON GRDH2O. MAY PULL GASOLINE TNK, AWAIT SOLVAYS DECISION TO PULL OR CONTINUE USE. 09/28/95: This isadditional information about material spilled from the translation of the old spill file: TANK FAILURE.
Spill Cause: TANK TEST FAILURE -0.47 GPH, 2K TANK.

HIST UST:

PBS Number:	7-030848
SPDES Number:	Not reported
Emergency Contact:	SOLVAY POLICE DEPT.
Emergency Telephone:	(315) 468-2521
Operator:	DAVID T. PETTITT
Operator Telephone:	(315) 468-1606
Owner Name:	SOLVAY HIGHWAY GARAGE
Owner Address:	3143 MILTON AVE.
Owner City,St,Zip:	SOLVAY, NY 13209
Owner Telephone:	(315) 468-1606
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Name:	SOLVAY HIGHWAY GARAGE
Mailing Address:	3143 MILTON AVE.
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SOLVAY, NY 13209
Mailing Contact:	HIGHWAY SUPERINTENDANT
Mailing Telephone:	(315) 468-1606
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	3132
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	12/18/1997
Expiration Date:	10/29/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	2000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	GEDDES
County Code:	31
Town or City:	32
Region:	7
Tank Id:	001
Tank Location:	UNDERGROUND

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

Tank Status:	Closed-Removed
Install Date:	19780401
Capacity (gals):	4000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	02/01/1988
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	06/01/1994
Test Method:	Petro-Tite
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19780401
Capacity (gals):	2000
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	02/01/1988
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	12/01/1993
Test Method:	Petro-Tite
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	7
Site Status:	Active
Facility Id:	7-030848
Program Type:	PBS

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

UTM X: 399770.46782999998
UTM Y: 4767896.5145899998
Expiration Date: 2012/10/29

Affiliation Records:

Site Id: 44181
Affiliation Type: Emergency Contact
Company Name: SOLVAY HIGHWAY GARAGE
Contact Type: Not reported
Contact Name: SOLVAY POLICE DEPT.
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 468-2521
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 44181
Affiliation Type: On-Site Operator
Company Name: SOLVAY HIGHWAY GARAGE
Contact Type: Not reported
Contact Name: MARK J CAZZOLLI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 468-1606
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: KCKEMP
Date Last Modified: 7/3/2009

Site Id: 44181
Affiliation Type: Owner
Company Name: SOLVAY HIGHWAY GARAGE
Contact Type: HIGHWAY SUPERINTENDENT
Contact Name: MARK J CAZZOLLI
Address1: 3143 MILTON AVE.
Address2: Not reported
City: SOLVAY
State: NY
Zip Code: 13209
Country Code: 001
Phone: (315) 468-1606
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: KCKEMP
Date Last Modified: 7/3/2009

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

Site Id:	44181
Affiliation Type:	Mail Contact
Company Name:	SOLVAY HIGHWAY GARAGE
Contact Type:	Not reported
Contact Name:	HIGHWAY SUPERINTENDANT
Address1:	3143 MILTON AVE.
Address2:	Not reported
City:	SOLVAY
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 468-1606
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
C03 - Pipe Location - Aboveground/Underground Combination
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
D02 - Pipe Type - Galvanized Steel
I00 - Overfill - None
A00 - Tank Internal Protection - None
J00 - Dispenser - None
A00 - Tank Internal Protection - None
J00 - Dispenser - None
H00 - Tank Leak Detection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
I00 - Overfill - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
K01 - Spill Prevention - Catch Basin

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

Tank Info:

Tank Number:	3
Tank Id:	136584
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	6/1/1994
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

Tank Number:	4
Tank Id:	140206
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	7/1/1999
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST AST:

PBS Number:	7-030848
SWIS Code:	3132
Operator:	DAVID T. PETTITT
Facility Phone:	(315) 468-1606
Facility Addr2:	Not reported
Facility Type:	OTHER
Emergency:	SOLVAY POLICE DEPT.
Emergency Tel:	(315) 468-2521
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	SOLVAY HIGHWAY GARAGE
Owner Address:	3143 MILTON AVE.
Owner City,St,Zip:	SOLVAY, NY 13209
Federal ID:	Not reported
Owner Tel:	(315) 468-1606
Owner Type:	Local Government

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

Owner Subtype:	Not reported
Mailing Contact:	HIGHWAY SUPERINTENDANT
Mailing Name:	SOLVAY HIGHWAY GARAGE
Mailing Address:	3143 MILTON AVE.
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SOLVAY, NY 13209
Mailing Telephone:	(315) 468-1606
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	12/18/1997
Expiration:	10/29/2002
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	GEDDES
County Code:	31
Town or City Code:	32
Region:	7

Tank ID:	3
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	19940601
Capacity (Gal):	2000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	00
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	00
Tank Containment:	Vault (w/access)
Leak Detection:	00
Overfill Protection:	54
Dispenser Method:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

NY Spills:

Site ID:	439475

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

Facility Addr2:	Not reported
Facility ID:	1006133
Spill Number:	1006133
Facility Type:	ER
SWIS:	3432
Investigator:	RJBRAZEL
Referred To:	Not reported
Spill Date:	9/2/2010
Reported to Dept:	9/2/2010
CID:	Not reported
Spill Cause:	Other
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	9/13/2010
Cleanup Meets Std:	False
Last Inspection:	9/2/2010
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	9/13/2010
Remediation Phase:	0
Date Entered In Computer:	9/3/2010
Spill Record Last Update:	9/13/2010
Spiller Name:	Not reported
Spiller Company:	solvay Highway garage
Spiller Address:	3143 Milton Ave
Spiller City,St,Zip:	Solvay, NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	299997
DEC Memo:	Fabrizio discovered an abandoned tank while working on the Highway garage. Conklin was hired to remove product in the tan. Fabrizio contacted DEC on 9/02/10 immediately after removing tank. Somd product was on the ater in the excavation(very high water table). Brazell directed Fabrizio to continue to place oil absorbing pads and to make arrangements to vac off the free product. Overburden was set aside for disposal, the remainder of the excavation is primarily pea gravel and Brqaxell waived sampling requirements
Remarks:	Fabrizio is doing earthwork at new highway garage, an abadoned tank was discovered

Material:

Site ID:	439475
Operable Unit ID:	1190115
Operable Unit:	01
Material ID:	2185084
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

Site ID: 284445
Facility Addr2: Not reported
Facility ID: 0301346
Spill Number: 0301346
Facility Type: ER
SWIS: 3432
Investigator: CFMANNES
Referred To: Not reported
Spill Date: 5/7/2003
Reported to Dept: 5/7/2003
CID: 257
Spill Cause: Human Error
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 9/16/2005
Remediation Phase: 0
Date Entered In Computer: 5/7/2003
Spill Record Last Update: 9/16/2005
Spiller Name: DAVID PETTITT
Spiller Company: VILLAGE SOLVAY HIGHWAY
Spiller Address: 3143 MILTON AVE
Spiller City,St,Zip: SOLVAY, NY
Spiller Company: 001
Contact Name: DAVID PETTITT
Contact Phone: (315) 468-1606
DEC Region: 7
DER Facility ID: 299997
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks: someone poked a hole in a storage barrel in back of highway garage speedy dry put down

Material:
Site ID: 284445

SOLVAY HIGHWAY GARAGE (Continued) **U003078099**

Operable Unit ID:	869367
Operable Unit:	01
Material ID:	505840
Material Code:	0015
Material Name:	Motor Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

S82 **ALLIED INDUSTRIAL LAUNDRY** **UST** **U003313589**
SE **3117 MILTON AVE** **HIST UST** **N/A**
> 1 **SOLVAY, NY 13209** **NY Spills**
1.348 mi. **CBS**
7117 ft. **Site 3 of 7 in cluster S**

Relative: Higher

Actual: 443 ft.

UST:

Facility Id:	7-024902
Region:	STATE
DEC Region:	7
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	399876.92203999998
UTM Y:	4767996.3654399998

Affiliation Records:

Site Id:	44162
Affiliation Type:	Emergency Contact
Company Name:	JAMES CHRISTOPHER JR
Contact Type:	Not reported
Contact Name:	JAMES CHRISTOPHER III
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 488-9071

ALLIED INDUSTRIAL LAUNDRY (Continued) **U003313589**

Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	44162
Affiliation Type:	Owner
Company Name:	JAMES CHRISTOPHER JR
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	317 WYNTROP RD
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 468-5452
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	44162
Affiliation Type:	On-Site Operator
Company Name:	ALLIED INDUSTRIAL LAUNDRY
Contact Type:	Not reported
Contact Name:	JAMES CHRISTOPHER III
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 488-5477
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	44162
Affiliation Type:	Mail Contact
Company Name:	JAMES CHRISTOPHER JR
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	317 WYNTROP RD
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 468-5452
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported

ALLIED INDUSTRIAL LAUNDRY (Continued) **U003313589**

Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Equipment Records:

G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Info:
Site ID: 44162

Tank Number: 001
Tank ID: 134005
Tank Status: Closed Prior to Micro Conversion, 03/91
Tank Model: Not reported
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 12000
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

HIST UST:
PBS Number: 7-024902
SPDES Number: Not reported
Emergency Contact: JAMES CHRISTOPHER III
Emergency Telephone: (315) 488-9071
Operator: JAMES CHRISTOPHER III
Operator Telephone: (315) 488-5477
Owner Name: JAMES CHRISTOPHER JR
Owner Address: 317 WYNTROP RD
Owner City,St,Zip: SYRACUSE, NY 13209
Owner Telephone: (315) 468-5452
Owner Type: Not reported
Owner Subtype: Not reported
Mailing Name: JAMES CHRISTOPHER JR
Mailing Address: 317 WYNTROP RD
Mailing Address 2: Not reported
Mailing City,St,Zip: SYRACUSE, NY 13209
Mailing Contact: Not reported
Mailing Telephone: (315) 468-5452
Owner Mark: First Owner
Facility Status: 2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2: Not reported

ALLIED INDUSTRIAL LAUNDRY (Continued) **U003313589**

SWIS ID:	3148
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	10/29/1987
Expiration Date:	10/29/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	SALINA
County Code:	31
Town or City:	48
Region:	7

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	12000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

NY Spills:

Site ID:	402712
Facility Addr2:	Not reported
Facility ID:	0805587
Spill Number:	0805587
Facility Type:	ER
SWIS:	3432

ALLIED INDUSTRIAL LAUNDRY (Continued) **U003313589**

Investigator:	KCKEMP
Referred To:	Not reported
Spill Date:	8/14/2008
Reported to Dept:	8/14/2008
CID:	408
Spill Cause:	Human Error
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	8/15/2008
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	1/8/2009
Remediation Phase:	0
Date Entered In Computer:	8/14/2008
Spill Record Last Update:	1/8/2009
Spiller Name:	TOM MORTIZ
Spiller Company:	ARAMARK SERVICES
Spiller Address:	3117 MILTON AVE
Spiller City,St,Zip:	SOLVAY, NY
Spiller Company:	001
Contact Name:	TOM MORTIZ
Contact Phone:	(973) 770-6914
DEC Region:	7
DER Facility ID:	351923
DEC Memo:	Ruan driver delivered 300 gallons of Dairy Glide (food grade lubricant) to CBS regulated caustic detergent tank. No reaction, no spill, other than contaminated products. HMHTTC responded.
Remarks:	THIS IS A MIXING OF TWO CHEMICALS IN ONE TANK NOT A SPILL; MIXING OF TWO DIFFERENT LAUNDRY DETERGENTS - NO REACTION BOTH CAUSTIC; DRIVER HOOKED UP TO WRONG TANK;

Material:

Site ID:	402712
Operable Unit ID:	1159465
Operable Unit:	01
Material ID:	2150577
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported

ALLIED INDUSTRIAL LAUNDRY (Continued) **U003313589**

Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	402712
Facility Addr2:	Not reported
Facility ID:	0805587
Spill Number:	0805587
Facility Type:	ER
SWIS:	3432
Investigator:	KCKEMP
Referred To:	Not reported
Spill Date:	8/14/2008
Reported to Dept:	8/14/2008
CID:	408
Spill Cause:	Human Error
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	8/15/2008
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	1/8/2009
Remediation Phase:	0
Date Entered In Computer:	8/14/2008
Spill Record Last Update:	1/8/2009
Spiller Name:	ERIC MEIDENBAUER
Spiller Company:	RUAN TRANSPORT
Spiller Address:	3200 RUAN CTR, 666 GRAND AVE
Spiller City,St,Zip:	DE MOINES, IA
Spiller Company:	999
Contact Name:	TOM MORTIZ
Contact Phone:	(973) 770-6914
DEC Region:	7
DER Facility ID:	351923
DEC Memo:	Ruan driver delivered 300 gallons of Dairy Glide (food grade lubricant) to CBS regulated caustic detergent tank. No reaction, no spill, other than contaminated products. HMHTTC responded.
Remarks:	THIS IS A MIXING OF TWO CHEMICALS IN ONE TANK NOT A SPILL; MIXING OF TWO DIFFERENT LAUNDRY DETERGENTS - NO REACTION BOTH CAUSTIC; DRIVER HOOKED UP TO WRONG TANK;

Material:

Site ID:	402712
Operable Unit ID:	1159465
Operable Unit:	01
Material ID:	2150577
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other

ALLIED INDUSTRIAL LAUNDRY (Continued) **U003313589**

Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

CBS:

CBS Number:	7-000366
Program Type:	CBS
Dec Region:	7
Expiration Date:	2011/04/08
Facility Status:	Active
UTMX:	399839.05355999
UTMY:	4767959.2792199

S83 **CAMILLUS HIGHWAY DEPARTMENT** **HIST UST** **U003314007**
SE **3097 MILTON AVE.** **N/A**
> 1 **CAMILLUS, NY 13031**
1.349 mi.
7121 ft. **Site 4 of 7 in cluster S**

Relative:
Higher

Actual:
434 ft.

HIST UST:

PBS Number:	7-600602
SPDES Number:	Not reported
Emergency Contact:	TONY DIBELLO
Emergency Telephone:	(315) 672-5556
Operator:	TONY DIBELLO
Operator Telephone:	(315) 672-5556
Owner Name:	TOWN OF CAMILLUS
Owner Address:	4600 W. GENESEE ST.
Owner City,St,Zip:	SYRACUSE, NY 13219
Owner Telephone:	(315) 488-1234
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Name:	CAMILLUS HIGHWAY DEPARTMENT
Mailing Address:	3097 MILTON AVE.
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CAMILLUS, NY 13031
Mailing Contact:	TONY DIBELLO-HWY. SUPT.
Mailing Telephone:	(315) 672-5556
Owner Mark:	First Owner

CAMILLUS HIGHWAY DEPARTMENT (Continued) **U003314007**

Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	3120
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	03/05/1999
Expiration Date:	06/02/2003
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	12500
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	CAMILLUS
County Code:	31
Town or City:	20
Region:	7

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19881201
Capacity (gals):	6000
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	12
Pipe Location:	Underground
Pipe Type:	FIBERGLASS REINFORCED PLASTIC
Pipe Internal:	Other
Pipe External:	59
Second Containment:	Vault (w/access)
Leak Detection:	13
Overfill Prot:	Automatic Shut-Off, Catch Basin
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND

CAMILLUS HIGHWAY DEPARTMENT (Continued) **U003314007**

Tank Status:	In Service
Install Date:	19881201
Capacity (gals):	6000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	12
Pipe Location:	Underground
Pipe Type:	FIBERGLASS REINFORCED PLASTIC
Pipe Internal:	Other
Pipe External:	59
Second Containment:	Vault (w/access)
Leak Detection:	13
Overfill Prot:	Automatic Shut-Off, Catch Basin
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	500
Product Stored:	USED OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

S84 **TOWN OF CAMILLUS HI-WAY** **NY Spills** **S102122277**
SE **3097 MILTON AVE** **NY Hist Spills** **N/A**
> 1 **CAMILLUS, NY**
1.349 mi.
7121 ft. **Site 5 of 7 in cluster S**

Relative:
Higher

Actual:
434 ft.

NY Spills:

Site ID:	99045
Facility Addr2:	Not reported
Facility ID:	9100331
Spill Number:	9100331
Facility Type:	ER
SWIS:	3420
Investigator:	ROMOCKI
Referred To:	Not reported
Spill Date:	4/8/1991
Reported to Dept:	4/8/1991
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	9/13/1991
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	9/13/1991
Remediation Phase:	0
Date Entered In Computer:	4/8/1991
Spill Record Last Update:	9/13/1991
Spiller Name:	Not reported
Spiller Company:	TOWN OF CAMILLUS GARAGE
Spiller Address:	3097 MILTON AVE.
Spiller City,St,Zip:	CAMILLUS, NY 13031
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	88061
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MR" 04/08/91: OIL THAT MAY HAVE TRAPPED BENEATH THE GARGE FLOOR WAS RELEASED DURING EXCAVATION. HYDRAULIC LINES THAT HAD BEEN LEAKING A FEW YEARS AGO MAY BE THE SOURCE. 09/13/91: OIL SEPARATING SYSTEM INSTALLED FOR DISCHARGE INTO STORM SYSTEM. NO MORE OIL SEEPING OUT FROM UNDER THE GARAGE FLOOR. SOME RESIDUAL OIL PROBABLY STILL REMAINS UNDER THE FLOOR.
Remarks:	OIL OOZING INTO EXCAVATION HOLE FROM BENEATH THE GARAGE. MAY BE FROM HYDRUALIC LINES REMOVED FROM SERVICE 2-3 YEARS AGO.

Material:

Site ID:	99045
Operable Unit ID:	951172
Operable Unit:	01
Material ID:	426536
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum

TOWN OF CAMILLUS HI-WAY (Continued) **S102122277**

Quantity: 25
Units: Gallons
Recovered: 5
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9100331
Investigator: MR
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 04/08/1991 09:00
Reported to Dept Date/Time: 04/08/91 09:30
SWIS: 31
Spiller Name: TOWN OF CAMILLUS GARAGE
Spiller Contact: Not reported
Spiller Phone: (315) 672-5556
Spiller Address: 3097 MILTON AVE.
Spiller City,St,Zip: CAMILLUS, NY 13031
Spill Cause: Equipment Failure
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 02
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: 09/13/91
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 09/13/91
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 04/08/91

TOWN OF CAMILLUS HI-WAY (Continued) **S102122277**

Date Spill Entered In Computer Data File: Not reported
Update Date: 09/13/91
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 25
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 5
Unkonwn Quantity Recovered: False
Material: WASTE OIL
Class Type: WASTE OIL
Times Material Entry In File: 9509
CAS Number: Not reported
Last Date: 19940927
DEC Remarks: 04/08/91: OIL THAT MAY HAVE TRAPPED BENEATH THE GARGE FLOOR WAS RELEASED DURING EXCAVATION. HYDRAULIC LINES THAT HAD BEEN LEAKING A FEW YEARS AGO MAY BE THE SOURCE. 09/13/91: OIL SEPARATING SYSTEM INSTALLED FOR DISCHARGE INTO STORM SYSTEM. NO MOREOIL SEEPING OUT FROM UNDER THE GARAGE FLOOR. SOME RESIDUAL OIL PROBABLY STILL REMAINS UNDER THE FLOOR.
Remark: OIL OOZING INTO EXCAVATION HOLE FROM BENEATH THE GARAGE. MAY BE FROM HYDRUALIC LINES REMOVED FROM SERVICE 2-3 YEARS AGO.

S85 **CAMILLUS HIGHWAY GARAGE** **NY Spills** **S108982855**
SE **3097 MILTON AVE** **N/A**
> 1 **CAMILLUS, NY 13031**
1.349 mi.
7121 ft. **Site 6 of 7 in cluster S**

Relative: Higher

Actual: 434 ft.

NY Spills:
Site ID: 391821
Facility Addr2: Not reported
Facility ID: 0751292
Spill Number: 0751292
Facility Type: ER
SWIS: 3420
Investigator: kckemp
Referred To: Not reported
Spill Date: 1/4/2008
Reported to Dept: 1/4/2008
CID: Not reported
Spill Cause: Unknown
Water Affected: NONE
Spill Source: Non Major Facility > 1,100 gal
Spill Notifier: Other
Cleanup Ceased: 4/10/2008
Cleanup Meets Std: True
Last Inspection: 1/7/2008
Recommended Penalty: Penalty Not Recommended
UST Trust: False

CAMILLUS HIGHWAY GARAGE (Continued) **S108982855**

Spill Class:	No spill occured. (Not Possible)
Spill Closed Dt:	4/10/2008
Remediation Phase:	0
Date Entered In Computer:	1/4/2008
Spill Record Last Update:	4/10/2008
Spiller Name:	MARK PIGULA
Spiller Company:	TOWN OF CAMILLUS
Spiller Address:	4600 WEST GENESEE ST
Spiller City,St,Zip:	SYRACUSE, NY 13219
Spiller Company:	001
Contact Name:	MARK PIGULA
Contact Phone:	(315) 672-5556
DEC Region:	7
DER Facility ID:	341423
DEC Memo:	DEC called by contractor hired for compliance audit 1/7/2008-tanks are SW. Contractor (B&L Engineers) was measuring product in tank. No spill. Paragon to test tank 1/8/2008.
Remarks:	24" product in interstitial for gasoline. water in interstitial for diesel.

Material:

Site ID:	391821
Operable Unit ID:	1148855
Operable Unit:	01
Material ID:	2139349
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

S86 **TOWN OF CAMILLUS HIGHWAY GARAGE** **NY Spills** **S108982856**
SE **3097 MILTON AVE** **N/A**
> 1 **CAMILLUS, NY 13031**
1.349 mi.
7121 ft. **Site 7 of 7 in cluster S**

Relative:
Higher

Actual:
434 ft.

NY Spills:

Site ID:	391822
Facility Addr2:	Not reported
Facility ID:	0751293
Spill Number:	0751293
Facility Type:	ER
SWIS:	3420
Investigator:	kckemp
Referred To:	Not reported
Spill Date:	1/4/2008
Reported to Dept:	1/4/2008
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	NONE
Spill Source:	Non Major Facility > 1,100 gal
Spill Notifier:	Other
Cleanup Ceased:	1/8/2009
Cleanup Meets Std:	False
Last Inspection:	1/7/2008
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	1/8/2009
Remediation Phase:	0
Date Entered In Computer:	1/4/2008
Spill Record Last Update:	1/8/2009
Spiller Name:	MARK PIGULA
Spiller Company:	TOWN OF CAMILLUS
Spiller Address:	4600 WEST GENESEE ST
Spiller City,St,Zip:	SYRACUSE, NY 13219
Spiller Company:	001
Contact Name:	MARK PIGULA
Contact Phone:	(315) 672-5556
DEC Region:	7
DER Facility ID:	341423
DEC Memo:	heavy oil noted on pribe in groundwater monitoring well. 1/7/2008-Oil removed. Appears to be old diesel. MW is located between end of tank and immediately adjacent to dispenser. Will see is oil reappears. Paragon to test tanks 1/8/2008.
Remarks:	heavy oil layer noted in monitoring well.

Material:

Site ID:	391822
Operable Unit ID:	1148856
Operable Unit:	01
Material ID:	2139350
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons

TOWN OF CAMILLUS HIGHWAY GARAGE (Continued) **S108982856**

Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

---

87 **108 PINAFORE DRIVE** **NY Spills** **S104653880**
WSW **108 PINAFORE DRIVE** **NY Hist Spills** **N/A**
> 1 **CAMILLUS, NY**
1.353 mi.
7144 ft.

Relative:
Higher

Actual:
450 ft.

NY Spills:
Site ID: 209073
Facility Addr2: Not reported
Facility ID: 0003489
Spill Number: 0003489
Facility Type: ER
SWIS: 3420
Investigator: CFMANNES
Referred To: Not reported
Spill Date: 6/20/2000
Reported to Dept: 6/21/2000
CID: 204
Spill Cause: Unknown
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Police Department
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: 6/21/2000
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt: 6/30/2000
Remediation Phase: 0
Date Entered In Computer: 6/21/2000
Spill Record Last Update: 11/2/2000
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: ZZ -
Spiller Company: 001
Contact Name: RICHARD ERWIN

108 PINAFORE DRIVE (Continued) **S104653880**

Contact Phone:	(315) 487-0102
DEC Region:	7
DER Facility ID:	173445
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM"
Remarks:	BEHIND CALLERS HOUSE - POSSIBLY FROM NEIGHBOR IN THE BACK - NO ONE FROM POLICE DEPARTMENT THERE YET.

Material:

Site ID:	209073
Operable Unit ID:	825867
Operable Unit:	01
Material ID:	551811
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	0003489
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	06/20/2000 12:00
Reported to Dept Date/Time:	06/21/00 10:57
SWIS:	31
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	( ) -
Spiller Contact:	RICHARD ERWIN
Spiller Phone:	(315) 487-0102
Spiller Address:	Not reported
Spiller City,St,Zip:	-
Spill Cause:	Unknown

108 PINAFORE DRIVE (Continued) **S104653880**

Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 12
Spill Notifier: Police Department
PBS Number: Not reported
Cleanup Ceased: / /
Cleanup Meets Std: False
Last Inspection: 06/21/00
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt: 06/30/00
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 06/21/00
Date Spill Entered In Computer Data File: Not reported
Update Date: 11/02/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: True
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Remark: BEHIND CALLERS HOUSE - POSSIBLY FROM NEIGHBOR IN THE BACK - NO ONE FROM POLICE DEPARTMENT THERE YET.

R88 **NYSDOT BRIDGE BIN 1093421** **RCRA-NonGen** **1001119401**
SE **RTE 5 WB OVER RTE 297 & FINGER** **FINDS** **NYR000026880**
> 1 **CAMILLUS, NY 13031**
1.354 mi.
7150 ft. **Site 2 of 3 in cluster R**

Relative:
Higher

Actual:
432 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: NYSDOT BRIDGE BIN 1093421
Facility address: RTE 5 WB OVER RTE 297 & FINGER
LAKES RAILWAY CORP

NYSDOT BRIDGE BIN 1093421 (Continued) **1001119401**

CAMILLUS, NY 13031
EPA ID: NYR000026880
Contact: Not reported
Contact address: RTE 5 WB OVER RTE 297 & FINGER
CAMILLUS, NY 13031
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NYSDOT
Owner/operator address: 333 E WASHINGTON ST
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 448-7349
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYSDOT
Owner/operator address: 333 E WASHINGTON ST
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 448-7349
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYSDOT BRIDGE BIN 1093421
Classification: Not a generator, verified

NYSDOT BRIDGE BIN 1093421 (Continued) **1001119401**

Date form received by agency: 01/31/1997
Facility name: NYSDOT BRIDGE BIN 1093421
Classification: Not a generator, verified

Date form received by agency: 07/18/1996
Facility name: NYSDOT BRIDGE BIN 1093421
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110008095756

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

R89 **NYSDOT BRIDGE BIN 1093422** **RCRA-NonGen** **1001119402**
SE **RTE 5 EB OVER RTE 297 & FINGER** **FINDS** **NYR000026898**
> 1 **CAMILLUS, NY 13031** **MANIFEST**
1.354 mi.
7150 ft. **Site 3 of 3 in cluster R**

Relative:
Higher

Actual:
432 ft.

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: NYSDOT BRIDGE BIN 1093422
Facility address: RTE 5 EB OVER RTE 297 & FINGER
LAKES RAILWAY CORP
CAMILLUS, NY 13031
EPA ID: NYR000026898
Contact: ROBERT TRENDELL
Contact address: RTE 5 EB OVER RTE 297 & FINGER NYSDOT
CAMILLUS, NY 13031
Contact country: US
Contact telephone: (315) 448-7349
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NYSDOT
Owner/operator address: 333 E WASHINGTON ST
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 448-7349
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYSDOT

NYSDOT BRIDGE BIN 1093422 (Continued) **1001119402**

Owner/operator address: 333 E WASHINGTON ST
SYRACUSE, NY 13202
Owner/operator country: US
Owner/operator telephone: (315) 448-7349
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYSDOT BRIDGE BIN 1093422
Classification: Not a generator, verified

Date form received by agency: 07/18/1996
Facility name: NYSDOT BRIDGE BIN 1093422
Classification: Not a generator, verified

Date form received by agency: 01/31/1994
Facility name: NYSDOT BRIDGE BIN 1093422
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110008095765

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NYSDOT BRIDGE BIN 1093422 (Continued) **1001119402**

NY MANIFEST:

EPA ID:	NYR000026898
Country:	USA
Mailing Name:	NYSDOT ROUTE 5 EB OVER ROUTE 297 AND
Mailing Contact:	ROBERT TRENDELL
Mailing Address:	109 SOUTH WARREN STREET
Mailing Address 2:	Not reported
Mailing City:	SYRACUSE
Mailing State:	NY
Mailing Zip:	13202
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-668-7313

Document ID:	MIA4561908
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	71596ENY
Trans2 State ID:	86044DNY
Generator Ship Date:	961010
Trans1 Recv Date:	961010
Trans2 Recv Date:	961014
TSD Site Recv Date:	961015
Part A Recv Date:	961113
Part B Recv Date:	961104
Generator EPA ID:	NYR000026898
Trans1 EPA ID:	NYD986903904
Trans2 EPA ID:	NYD986903904
TSDF ID:	MID096963194
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00800
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	96

Document ID:	MIA4561909
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	71596ENY
Trans2 State ID:	86044DNY
Generator Ship Date:	961010
Trans1 Recv Date:	961010
Trans2 Recv Date:	961014
TSD Site Recv Date:	961015
Part A Recv Date:	961113
Part B Recv Date:	961104
Generator EPA ID:	NYR000026898
Trans1 EPA ID:	NYD986903904
Trans2 EPA ID:	NYD986903904
TSDF ID:	MID096963194
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00400
Units:	P - Pounds
Number of Containers:	001

NYSDOT BRIDGE BIN 1093422 (Continued) **1001119402**

Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 96

90
SW
> 1
1.357 mi.
7164 ft.

Relative:
Higher

Actual:
463 ft.

167 BENNETT RD
CAMILLUS, NY

NY Spills **S106004205**
N/A

NY Spills:
Site ID: 69847
Facility Addr2: Not reported
Facility ID: 0202352
Spill Number: 0202352
Facility Type: ER
SWIS: 3420
Investigator: CFMANNES
Referred To: Not reported
Spill Date: 6/4/2002
Reported to Dept: 6/4/2002
CID: 211
Spill Cause: Other
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Local Agency
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
Spill Closed Dt: 9/1/2002
Remediation Phase: 0
Date Entered In Computer: 6/4/2002
Spill Record Last Update: 1/22/2003
Spiller Name: MICHAEL QUICK
Spiller Company: Not reported
Spiller Address: 167 BENNETT RD
Spiller City,St,Zip: CAMILLUS, NY
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 7
DER Facility ID: 66373
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" HOMEOWNERS DUG AROUND FOOTING ABOUT 20 INCHES, NO PIPES OR STAINING OBSERVED. OLD PUMP WAS FOR AN ABOVE GROUND TANK TAHT WAS REMOVED IN THE EARLY 1970'S. NO FURTHER INVESTIGATION WARRANTED.
Remarks: caller states spiller was cutting what appears to be fill pipe off tank and residual product spilled on ground - product appears to be kerosene - no clean up

Material:
Site ID: 69847

(Continued) **S106004205**

Operable Unit ID:	853197
Operable Unit:	01
Material ID:	520210
Material Code:	0012
Material Name:	Kerosene (#1 Fuel Oil)
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	69847
Spill Tank Test:	1527174
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

T91 **FRAZIER JONES** **NY Spills** **S104500264**
SE **3000 MILTON AVE** **NY Hist Spills** **N/A**
> 1 **SOLVEY, NY**
1.359 mi.
7176 ft. **Site 1 of 13 in cluster T**

Relative:
Higher

Actual:
431 ft.

NY Spills:

Site ID:	91691
Facility Addr2:	Not reported
Facility ID:	9501644
Spill Number:	9501644
Facility Type:	ER
SWIS:	3400
Investigator:	HDWARNER
Referred To:	Not reported
Spill Date:	5/9/1995
Reported to Dept:	5/9/1995
CID:	Not reported
Spill Cause:	Traffic Accident
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Police Department
Cleanup Ceased:	5/9/1995
Cleanup Meets Std:	True
Last Inspection:	5/9/1995
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	5/12/1995
Remediation Phase:	0

FRAZIER JONES (Continued) **S104500264**

Date Entered In Computer: Not reported
Spill Record Last Update: 12/2/2003
Spiller Name: Not reported
Spiller Company: BUFFALO FUEL
Spiller Address: Not reported
Spiller City,St,Zip: NY
Spiller Company: 999
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 7
DER Facility ID: 82445
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "HW" 05/12/95: EFFECTED AREA REMOVED AND DRUMED. NO FURTHER ACTION REQUIRED.
Remarks: TRACTOR TRAILER ROLL OVER LEAKED APPROX 20 GALLONS OF FUEL ONTO SAND PILE.

Material:
Site ID: 91691
Operable Unit ID: 1012660
Operable Unit: 01
Material ID: 366715
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 20
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9501644
Investigator: HW
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 05/09/1995 13:00
Reported to Dept Date/Time: 05/09/95 11:28

FRAZIER JONES (Continued) **S104500264**

SWIS: 31
Spiller Name: BUFFALO FUEL
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Traffic Accident
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 08
Spill Notifier: Police Department
PBS Number: Not reported
Cleanup Ceased: 05/09/95
Cleanup Meets Std: True
Last Inspection: 05/09/95
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 05/12/95
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 05/12/95
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 20
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 05/12/95: EFFECTED AREA REMOVED AND DRUMED. NO FURTHER ACTION REQUIRED.
Remark: TRACTOR TRAILER ROLL OVER LEAKED APPROX 20 GALLONS OF FUEL ONTO SAND PILE.

T92 **STANTON FOUNDRY** **RCRA-NonGen** **1000457303**
SE **3004 MILTON AVE** **FINDS** **NYD002234912**
> 1 **SOLVAY, NY 13209** **LTANKS**
1.359 mi. **HIST LTANKS**
7176 ft. **Site 2 of 13 in cluster T** **UST**
HIST UST
Relative: **MANIFEST**
Higher

Actual: **431 ft.**

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	STANTON FOUNDRY
Facility address:	3004 MILTON AVE SOLVAY, NY 132092522
EPA ID:	NYD002234912
Mailing address:	PO BOX 548 EAST SYRACUSE, NY 13057
Contact:	Not reported
Contact address:	PO BOX 548 EAST SYRACUSE, NY 13057
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	HOFFMAN AIR & FILTRATION
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	HOFFMAN AIR & FILTRATION
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Unknown
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No

STANTON FOUNDRY (Continued) **1000457303**

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: STANTON FOUNDRY
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: STANTON FOUNDRY
Classification: Not a generator, verified

Date form received by agency: 11/13/1990
Facility name: STANTON FOUNDRY
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110001984069

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LTANKS:
Site ID: 192615
Spill No: 9105724
Spill Date: 8/26/1991
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 9/17/1991
Facility Addr2: Not reported
Cleanup Ceased: 9/17/1991
Cleanup Meets Standard: True
SWIS: 3400
Investigator: ROMOCKI
Referred To: Not reported
Reported to Dept: 8/26/1991
CID: Not reported
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended

STANTON FOUNDRY (Continued) **1000457303**

UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	8/27/1991
Spill Record Last Update:	10/31/1991
Spiller Name:	Not reported
Spiller Company:	HOFFMAN AIR&FILTRATION
Spiller Address:	3004 MILTON AVE
Spiller City,St,Zip:	SOLVAY, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	160602
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MR" 08/27/91: CONTAMINATED SOIL HAD BEEN EXCAVATED AND STAGED ON SITE FOR DISPOSAL. ACENT TO AREA OF CONTAMINATION.
Remarks:	2K TANK, #2 FUEL, REMOVED. FOUND SOME CONTAMINATED SOIL.WILL EXCAVATED AND DISPOSE.

Material:

Site ID:	192615
Operable Unit ID:	956221
Operable Unit:	01
Material ID:	421498
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	20
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	9105724
Spill Date:	08/26/1991
Spill Time:	14:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported

STANTON FOUNDRY (Continued) **1000457303**

Spill Source:	Other Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	09/17/91
Cleanup Ceased:	09/17/91
Cleanup Meets Standard:	True
Investigator:	MR
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	08/26/91
Reported to Department Time:	15:00
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	HOFFMAN AIR&FILTRATION
Spiller Address:	3004 MILTON AVE
Spiller City,St,Zip:	SOLVAY, NY
Spiller Cleanup Date:	08/27/91
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Other
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	09/17/91
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	09/04/91
Date Spill Entered In Computer Data File:	08/27/91
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	10/31/91
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	20
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	20
Unkonwn Quantity Recovered:	False

STANTON FOUNDRY (Continued) **1000457303**

Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: 08/27/91: CONTAMINATED SOIL HAD BEEN EXCAVATED AND STAGED ON SITE FOR DISPOSAL. ACENT TO AREA OF CONTAMINATION.
Spill Cause: 2K TANK, 2 FUEL, REMOVED. FOUND SOME CONTAMINATED SOIL.WILL EXCAVATED AND DISPOSE.

UST:
Facility Id: 7-427381
Region: STATE
DEC Region: 7
Site Status: Unregulated
Program Type: PBS
Expiration Date: N/A
UTM X: 399981.35804999998
UTM Y: 4768114.3525999999

Affiliation Records:
Site Id: 45771
Affiliation Type: On-Site Operator
Company Name: STANTON FOUNDRY
Contact Type: Not reported
Contact Name: STANTON FOUNDRY
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 488-2948
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 45771
Affiliation Type: Mail Contact
Company Name: STANTON FOUNDRY
Contact Type: Not reported
Contact Name: Not reported
Address1: 3004 MILTON AVE.
Address2: Not reported
City: SOLVAY
State: NY
Zip Code: 13209
Country Code: 001
Phone: (315) 488-2948
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

STANTON FOUNDRY (Continued) **1000457303**

Site Id:	45771
Affiliation Type:	Emergency Contact
Company Name:	STANTON FOUNDRY
Contact Type:	Not reported
Contact Name:	DAVID CHESBRO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 492-9220
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	45771
Affiliation Type:	Owner
Company Name:	STANTON FOUNDRY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	3004 MILTON AVE.
Address2:	Not reported
City:	SOLVAY
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 488-2948
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

C00 - Pipe Location - No Piping
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
D02 - Pipe Type - Galvanized Steel
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
I00 - Overfill - None
G00 - Tank Secondary Containment - None

Tank Info:

Site ID:	45771
Tank Number:	001
Tank ID:	131908
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2000

STANTON FOUNDRY (Continued) **1000457303**

Tightness Test Method:	01
Next Test Date:	Not reported
Date Tank Closed:	8/1/1991
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	12/1/1987
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	7-427381
SPDES Number:	Not reported
Emergency Contact:	DAVID CHESBRO
Emergency Telephone:	(315) 492-9220
Operator:	STANTON FOUNDRY
Operator Telephone:	(315) 488-2948
Owner Name:	STANTON FOUNDRY
Owner Address:	3004 MILTON AVE.
Owner City,St,Zip:	SOLVAY, NY 13209
Owner Telephone:	(315) 488-2948
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	STANTON FOUNDRY
Mailing Address:	3004 MILTON AVE.
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SOLVAY, NY 13209
Mailing Contact:	Not reported
Mailing Telephone:	(315) 488-2948
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	3132
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	10/29/1987
Expiration Date:	10/29/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	GEDDES
County Code:	31
Town or City:	32
Region:	7

STANTON FOUNDRY (Continued) **1000457303**

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	2000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	12/01/1987
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	08/01/1991
Test Method:	Petro-Tite
Deleted:	False
Updated:	True
Lat/long:	Not reported

NY MANIFEST:

EPA ID:	NYD002234912
Country:	USA
Mailing Name:	HOFFMAN AIR STANTON FOUNDRY
Mailing Contact:	MARTIN H KRUGER
Mailing Address:	MILTON AVENUE
Mailing Address 2:	Not reported
Mailing City:	SOLVAY
Mailing State:	NY
Mailing Zip:	13209
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-432-8668

Document ID:	NYB2411955
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	44571TNY
Trans2 State ID:	Not reported
Generator Ship Date:	901116
Trans1 Recv Date:	901116
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	901116
Part A Recv Date:	901227
Part B Recv Date:	901220
Generator EPA ID:	NYD002234912
Trans1 EPA ID:	NYD982792814
Trans2 EPA ID:	Not reported
TSDF ID:	NYD043815703
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00055

STANTON FOUNDRY (Continued) **1000457303**

Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	120
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	110
Year:	90

Document ID:	NYB2723355
Manifest Status:	Completed copy
Trans1 State ID:	NY5555NY
Trans2 State ID:	Not reported
Generator Ship Date:	910919
Trans1 Recv Date:	910919
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910919
Part A Recv Date:	911003
Part B Recv Date:	910930
Generator EPA ID:	NYD002234912
Trans1 EPA ID:	NYD982792814
Trans2 EPA ID:	Not reported
TSDF ID:	NYD043815703
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00100
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00100
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	91

Document ID:	NYB2828556
Manifest Status:	Completed copy
Trans1 State ID:	80359VNY
Trans2 State ID:	Not reported

STANTON FOUNDRY (Continued) **1000457303**

Generator Ship Date:	910829
Trans1 Recv Date:	910829
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910830
Part A Recv Date:	910911
Part B Recv Date:	910912
Generator EPA ID:	NYD002234912
Trans1 EPA ID:	NYD982792814
Trans2 EPA ID:	Not reported
TSDF ID:	NYD043815703
Waste Code:	F003 - UNKNOWN
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	090
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	110
Waste Code:	Not reported
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	101
Waste Code:	Not reported
Quantity:	00085
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	095
Year:	91

Document ID:	NYB2828547
Manifest Status:	Completed copy
Trans1 State ID:	80359VNY
Trans2 State ID:	Not reported
Generator Ship Date:	910829
Trans1 Recv Date:	910829
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	910830
Part A Recv Date:	910911
Part B Recv Date:	910913
Generator EPA ID:	NYD002234912
Trans1 EPA ID:	NYD982792814
Trans2 EPA ID:	Not reported
TSDF ID:	NYD043815703
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00055

STANTON FOUNDRY (Continued) **1000457303**

Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	120
Year:	91

T93 **LCP CHEMICAL** **SHWS** **S102124051**
SE **MATTHEWS AVE** **NY Spills** **N/A**
> 1 **SOLVAY, NY** **NY Hist Spills**
1.359 mi.
7178 ft. **Site 3 of 13 in cluster T**

Relative:
Higher

Actual:
430 ft.

SHWS:

Program:	HW
Site Code:	56348
Classification:	SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region:	7
Acres:	20.000
HW Code:	734049
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	3/31/2010 8:28:00 AM
Updated By:	DJHESLER

Site Description: The former LCP Chemical site is located 2 miles northwest of the City of Syracuse, in the Town of Geddes, Onondaga County, New York (see Figure 1). The approximately 20-acre site is located in an industrial area on Gere Lock Road (formerly called Belle Isle Road), west of Bridge Street (Route 297), and south of the New York State Fairgrounds and an active railroad right-of-way. A scrap yard is located north of the site, a cogeneration facility is located to the west, and the former NAKOH Chemical facility is located to the northeast. Site geology consists of 3 to 10 feet of fill (brick, concrete, gravel, coal cinders), followed by 1 to 6 feet of clay and approximately 35 feet of silty-sand and sandy silt. Glacial till (a mixture of clays, silts, sands, and boulders) is at a depth of 38 to 44 feet below the ground surface at a thickness of 3 to 20 feet. Below the till is bedrock. Site hydrogeology consists of wetlands, a stream and two groundwater aquifers (upper and lower). The wetlands are approximately 9 acres in size and located west of the former facility. The stream, named the West Flume, is a man-made drainage channel that bisects the site and discharges to Geddes Brook which, in turn, discharges to Ninemile Creek 1.3 miles upstream and west of Onondaga Lake. The West Flume discharges to Geddes Brook near the Route 695 overpass, 4500 feet west (downstream) of the LCP Chemical site. Site runoff discharges to the West Flume and to the wetland. The wetland also discharges to the West Flume. Site groundwater from the upper aquifer discharges to the West Flume, and site groundwater from the lower aquifer flows towards the West Flume, but does not discharge to the stream prior to the West Flume converging with Geddes Brook. OU No. 2 consists of a 1.7-acre area where a former hydrogen peroxide plant was located. This area is north of the West Flume, south of the New York State Fairgrounds, a scrap metal recycling facility and an active railroad right-of-way, east of an area of OU No. 1 called the brine mud area, and west of the former NAKOH Chemical facility. A Record of Decision was issued for OU No. 1 by the NYSDEC in 2000. All of the remedial work at OU No. 1 was completed as of 2008, with the exception of the final cap. However, a

LCP CHEMICAL (Continued) **S102124051**

temporary cap is in place at the site. Remediation of OU No. 1 consisted of the following: the removal of tanks, containers and transformers; building demolition; sediment excavation and restoration of the West Flume and wetlands; soil washing, which reclaimed approximately 8 tons of elemental mercury; soil excavation of the Brine Mud Area and North Ditch; the excavation of pipes and sewers, which provided preferential pathways for contamination to enter into the West Flume; and the installation of a slurry wall, groundwater collection and cap system. The two buildings formerly located on OU No. 2, a hydrogen peroxide plant process building and a hydrogen compressor building, along with associated tanks and containers, were demolished and/or removed in 2001. The underground sewers and utilities located on OU No. 2 were removed, and surface soil (i.e., 1 to 3 feet) from OU No. 2 was excavated, as part of the OU No. 1 remedial action. A Proposed Remedial Action Plan for OU No. 2 was released, and a public comment period ran from February 16, 2010 through March 18, 2010. The public meeting was held on March 3, 2010. A Record of Decision was signed on March 30, 2010.

Env Problem: The primary contaminants of concern at the site include mercury and xylene. Groundwater and surface water sampling revealed elevated levels of mercury above the NYS Part 703 groundwater and surface water quality standards. Groundwater sampling has also revealed elevated levels of xylene above NYS Part 703 groundwater standards. Site soils have elevated levels of mercury and xylene. In addition, elemental mercury has been observed in some site soils. Elevated levels of mercury are also present in sediments at the site. Groundwater, surface water, sediment and soil contamination by mercury presented a significant threat to the environment prior to remedial activities. The following environmental exposure pathways and ecological risks have been identified for Operable Unit Number 2: - Ecological screening conducted prior to the OU No. 2 area soil removals (as part of the OU No. 1 remedy) identified a potential for adverse effects on flora and fauna at both OU No. 2 and NAKOH Chemical, because maximum concentrations of certain chemicals in soil exceeded ecological screening benchmarks at both locations. - Soil removed as part of the OU No. 1 remediation addressed the majority of the ecological issues identified in the screening assessment, and current site risks are lower due to the soil removal and backfill with clean gravel. - While the lack of suitable plant or animal habitat, due to the site s industrial nature, currently limits ecological exposure to contaminants, a return to a more natural habitat in the future may create additional ecological risk. Operable Unit No.2 Site contamination has impacted the groundwater resource in the shallow aquifer. While groundwater in the vicinity of the site is not a source of drinking water, site groundwater discharges to the West Flume, a New York State Class C water body.

Health Problem: The site is fenced and security is maintained to restrict public access to the site. Consumption of contaminated groundwater is not expected because the site and surrounding area are serviced by a municipal drinking water supply. Human contact with any surface soil contamination at the site is also not expected because OU-2 surface soils were removed as part of the OU-1 remedial action and backfilled with clean gravel. An evaluation to determine the potential for soil vapor intrusion to occur will be completed prior to the construction of any future site buildings. Other protective site measures will be in place to ensure that any future excavation and/or construction activities are protective of human health and the environment.

LCP CHEMICAL (Continued) **S102124051**

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	unknown
Disp Term:	unknown
Lat/Long:	43:03:55:0 / 76:13:15:0
Dell:	False
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	1/7/2010 12:31:00 PM
Updated By:	RXMUSTIC
Own Op:	Disp. Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	LCP CHEMICAL
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	LCP Chemical
Owner Address:	Matthews Avenue / PO Box 98
Owner Addr2:	Not reported
Owner City,St,Zip:	Solvay, NY 13209
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	LCP Chemical
Owner Address:	Matthews Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Solvay, NY 13209
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	E
Owner Name:	Not reported
Owner Company:	LCP CHEMICAL
Owner Address:	PO BOX 98, MATTHEWS AVE.
Owner Addr2:	Not reported
Owner City,St,Zip:	SOLVAY, NY
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	E
Owner Name:	Not reported
Owner Company:	LCP CHEMICAL
Owner Address:	PO BOX 98 MATTHEWS AVE.
Owner Addr2:	Not reported
Owner City,St,Zip:	SOLVAY, NY 13209
Owner Country:	United States of America
HW Code:	734049
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734049

LCP CHEMICAL (Continued) **S102124051**

Waste Type: XYLENE (MIXED)
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 734049
Waste Type: 2-ethylanthraquinone
Waste Quantity: UNKNOWN
Waste Code: Not reported
HW Code: 734049
Waste Type: MERCURY
Waste Quantity: UNKNOWN
Waste Code: Not reported
Crossref ID: NYD095586376
Cross Ref Type Code: 06
Cross Ref Type: RCRA ID
Record Added Date: 11/18/1999 12:00:00 PM
Record Updated: 2/24/2005 3:54:00 PM
Updated By: INITIAL

NY Spills:
Site ID: 171002
Facility Addr2: Not reported
Facility ID: 8802310
Spill Number: 8802310
Facility Type: ER
SWIS: 3400
Investigator: VOLLMER
Referred To: Not reported
Spill Date: 6/7/1988
Reported to Dept: 6/14/1988
CID: Not reported
Spill Cause: Equipment Failure
Water Affected: ONONDAGA LAKE
Spill Source: Commercial/Industrial
Spill Notifier: Federal Government
Cleanup Ceased: 6/14/1988
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Not reported
Spill Closed Dt: 6/14/1988
Remediation Phase: 0
Date Entered In Computer: 6/20/1988
Spill Record Last Update: 11/7/2000
Spiller Name: Not reported
Spiller Company: LCP CHEMICAL
Spiller Address: PO BOX#98
Spiller City,St,Zip: SOLVAY, NY
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 7
DER Facility ID: 159259
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DV" 06/14/88: STEVE LACKEY ALREADY AWARE OF THIS DISCHARGE.
Remarks: OPERATIONS PROCESS IN WATER TREATMENT PLANT THAT WAS UPSET. EVENT LASTED 3 DAYS. 11 LBS ADAY DISCHARGE. PLANT REPORTED TO BE SHUT DOWN.

LCP CHEMICAL (Continued) **S102124051**

Material:

Site ID:	171002
Operable Unit ID:	917628
Operable Unit:	01
Material ID:	457877
Material Code:	0092A
Material Name:	MERCURIC CHLORIDE
Case No.:	07487947
Material FA:	Hazardous Material
Quantity:	33
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

Site ID:	190933
Facility Addr2:	Not reported
Facility ID:	8902916
Spill Number:	8902916
Facility Type:	ER
SWIS:	3400
Investigator:	VOLLMER
Referred To:	Not reported
Spill Date:	6/20/1989
Reported to Dept:	6/21/1989
CID:	Not reported
Spill Cause:	Human Error
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	6/22/1989
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	6/22/1989
Remediation Phase:	0
Date Entered In Computer:	6/24/1989
Spill Record Last Update:	6/28/1989
Spiller Name:	Not reported
Spiller Company:	LCP CHEMICAL
Spiller Address:	Not reported

LCP CHEMICAL (Continued) **S102124051**

Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 7
DER Facility ID: 159259
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DV" 06/22/89: REMOVED CONTAMINATED SOIL DOWN TO CLEAN SOIL.
Remarks: TREATMENT PLANT EFFLUENT SPILLED FROM DUMPSTER WHILE LOADING INTO TRUCK.

Material:
Site ID: 190933
Operable Unit ID: 930348
Operable Unit: 01
Material ID: 450592
Material Code: 1155A
Material Name: K-106 H2O TREATMENT
Case No.: Not reported
Material FA: Other
Quantity: 0
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False
Site ID: 190933
Operable Unit ID: 930348
Operable Unit: 01
Material ID: 450591
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 30
Units: Pounds
Recovered: 30
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:
Region of Spill: 7

LCP CHEMICAL (Continued) **S102124051**

Spill Number:	8902916
Investigator:	DV
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	06/20/1989 09:15
Reported to Dept Date/Time:	06/21/89 09:12
SWIS:	31
Spiller Name:	LCP CHEMICAL
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Human Error
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	01
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	06/22/89
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	06/22/89
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	06/24/89
Date Spill Entered In Computer Data File:	Not reported
Update Date:	06/28/89
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	30
Unkonwn Quantity Spilled:	False
Units:	Pounds
Quantity Recovered:	30
Unkonwn Quantity Recovered:	False
Material:	UNKNOWN PETROLEUM
Class Type:	UNKNOWN PETROLEUM
Times Material Entry In File:	16414
CAS Number:	Not reported

LCP CHEMICAL (Continued) **S102124051**

Last Date:	19940929
Material Class Type:	Hazardous Material
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	K-106 H2O TREATMENT
Class Type:	K-106 H2O TREATMENT
Times Material Entry In File:	1
CAS Number:	Not reported
Last Date:	Not reported
DEC Remarks:	06/22/89: REMOVED CONTAMINATED SOIL DOWN TO CLEAN SOIL.
Remark:	TREATMENT PLANT EFFLUENT SPILLED FROM DUMPSTER WHILE LOADING INTO TRUCK.

Region of Spill:	7
Spill Number:	8802310
Investigator:	DV
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	06/07/1988 08:00
Reported to Dept Date/Time:	06/14/88 10:35
SWIS:	31
Spiller Name:	LCP CHEMICAL
Spiller Contact:	Not reported
Spiller Phone:	(315) 487-4700
Spiller Address:	PO BOX#98
Spiller City,St,Zip:	SOLVAY, NY
Spill Cause:	Equipment Failure
Reported to Dept:	Surface Water
Water Affected:	ONONDAGA LAKE
Spill Source:	01
Spill Notifier:	Federal Government
PBS Number:	Not reported
Cleanup Ceased:	06/14/88
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported
Spill Closed Dt:	06/14/88
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	06/20/88
Date Spill Entered In Computer Data File:	Not reported
Update Date:	11/07/00
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported

LCP CHEMICAL (Continued) **S102124051**

Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Nonpetroleum/Nonhazardous
Quantity Spilled: 33
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: MERCURIC CHLORIDE
Class Type: MERCURIC CHLORIDE
Times Material Entry In File: 0
CAS Number: 07487947
Last Date: Not reported
DEC Remarks: 06/14/88: STEVE LACKEY ALREADY AWARE OF THIS DISCHARGE.
Remark: OPERATIONS PROCESS IN WATER TREATMENT PLANT THAT WAS UPSET. EVENT LASTED 3 DAYS. 11 LBS ADAY DISCHARGE. PLANT REPORTED TO BE SHUT DOWN.

Region of Spill: 7
Spill Number: 8801511
Investigator: DV
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 05/18/1988 09:00
Reported to Dept Date/Time: 05/18/88 16:18
SWIS: 31
Spiller Name: LCP CHEMICAL
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Human Error
Reported to Dept: Surface Water
Water Affected: GEDDES BROOK
Spill Source: 01
Spill Notifier: Federal Government
PBS Number: Not reported
Cleanup Ceased: 05/19/88
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 05/19/88
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 06/03/88
Date Spill Entered In Computer Data File: Not reported

LCP CHEMICAL (Continued) **S102124051**

Update Date: 06/03/88
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Nonpetroleum/Nonhazardous
Quantity Spilled: 2
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: MERCURY
Class Type: MERCURY
Times Material Entry In File: 0
CAS Number: 07439976
Last Date: Not reported
DEC Remarks: 05/19/88: TURNED OVER TO STEVE LACKEY FOR FOLLOW UP.
Remark: TERRY DURAN CALLED N.R.C. 315-487-4700 MERCURY SPILLED IN DITCH WHICH EMPTYS INTO GEDDES BROOK.

T94 **ALLIED CHEMICAL DEMO SLF** **SWF/LF** **S103592967**
SE **MATHEWS AVE** **N/A**
> 1 **SOLVAY, NY 13209**
1.359 mi.
7178 ft. **Site 4 of 13 in cluster T**

Relative:
Higher

Actual:
430 ft.

SWF/LF:
Flag: INACTIVE
Region Code: 7
Phone Number: Not reported
Owner Name: Honeywell
Owner Type: Private
Owner Address: MATHEWS AVE
Owner Addr2: Not reported
Owner City,St,Zip: SOLVAY, NY 13209
Owner Email: al.labuz@honeywell.com
Owner Phone: 3154314443
Contact Name: Not reported
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: Not reported
Contact Phone: Not reported
Activity Desc: Landfill - construction and demolition debris
Activity Number: 34D01
Active: No
East Coordinate: Not reported
North Coordinate: Not reported
Accuracy Code: Not reported
Regulatory Status: None
Waste Type: Construction & Demolition Debris
Authorization #: None

ALLIED CHEMICAL DEMO SLF (Continued) **S103592967**

Authorization Date: Not reported
Expiration Date: Not reported

T95 **CITGO INC., MILTON AVE.** **NY Spills** **S102123419**
SE **MILTON AVE.** **NY Hist Spills** **N/A**
> 1 **SOLVAY, NY**
1.359 mi.
7178 ft. **Site 5 of 13 in cluster T**

Relative:
Higher

Actual:
430 ft.

NY Spills:

Site ID:	258819
Facility Addr2:	Not reported
Facility ID:	8604609
Spill Number:	8604609
Facility Type:	ER
SWIS:	3400
Investigator:	UNASSIGNED
Referred To:	Not reported
Spill Date:	10/20/1986
Reported to Dept:	10/20/1986
CID:	Not reported
Spill Cause:	Deliberate
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Citizen
Cleanup Ceased:	6/4/1987
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	6/4/1987
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	CITGO INC.
Spiller Address:	2355 MILTON AVE.
Spiller City,St,Zip:	SOLVAY, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	162865
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was " " / / : CITIZEN WOULD LIKE TO REMAIN ANNON. BECAUSE CITGO STATION OWNER IS RELATIVE OF POLICE CHIEF OF SOLVAY.
Remarks:	PRODUCT RUNS INTO STORM SEWER, CITIZEN SAW EMPLOYEE DUMPING MATERIAL (OIL) INTO STORM DRAIN. FIRE DEPT. WAS PULLING STORM DRAIN.

Material:

Site ID:	258819
Operable Unit ID:	901685
Operable Unit:	01
Material ID:	473850
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported

CITGO INC., MILTON AVE. (Continued) **S102123419**

Material FA: Petroleum
Quantity: 0
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 8604609
Investigator: Not reported
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 10/20/1986 09:00
Reported to Dept Date/Time: 10/20/86 09:00
SWIS: 31
Spiller Name: CITGO INC.
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: 2355 MILTON AVE.
Spiller City,St,Zip: SOLVAY, NY
Spill Cause: Deliberate
Reported to Dept: In Sewer
Water Affected: Not reported
Spill Source: 05
Spill Notifier: Citizen
PBS Number: Not reported
Cleanup Ceased: 06/04/87
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 06/04/87
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /

CITGO INC., MILTON AVE. (Continued) **S102123419**

Date Spill Entered In Computer Data File: 10/28/86
Date Spill Entered In Computer Data File: Not reported
Update Date: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: WASTE OIL
Class Type: WASTE OIL
Times Material Entry In File: 9509
CAS Number: Not reported
Last Date: 19940927
DEC Remarks: / / : CITIZEN WOULD LIKE TO REMAIN ANNON. BECAUSE CITGO STATION OWNER IS RELATIVE OF POLICE CHIEF OF SOLVAY.
Remark: PRODUCT RUNS INTO STORM SEWER, CITIZEN SAW EMPLOYEE DUMPING MATERIAL OIL) INTO STORM DRAIN. FIRE DEPT. WAS PULLING STORM DRAIN.

T96 **ALLIED CHEMICAL - WILLIS AVENUE SITE** **SHWS** **S103350658**
SE **WILLIS AVENUE** **N/A**
> 1 **SOLVAY, NY 12309**
1.359 mi.
7178 ft. **Site 6 of 13 in cluster T**

Relative:
Higher

Actual:
430 ft.

SHWS:
Program: HW
Site Code: 58558
Classification: SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region: 7
Acres: Not reported
HW Code: 734026
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 3/31/2010 8:26:00 AM
Updated By: DJHESLER
Site Description: This site is located on Willis Avenue in the Town of Geddes (Onondaga County), New York. The former manufacturing buildings have been demolished. The site was used by Allied Chemical as a chemical manufacturing plant until 1977. Surrounding land uses include industrial. Interstate I690 is located immediately to the north of the site. The plant specialized in chloroalkali production and the production of chlorinated benzenes. Site operations resulted in the contamination (by various contaminants including chlorinated benzenes and mercury) of site media. An RI/FS is underway. In addition, several IRMs have been completed and/or are underway. These include an IRM to design and construct a barrier and collection system to address the flow of contaminated groundwater from the site (and the

ALLIED CHEMICAL - WILLIS AVENUE SITE (Continued) **S103350658**

	adjacent Semet Tar Beds Site) to Onondaga Lake and an IRM for the construction of a Ground Water Treatment Plant (GWTP). In addition, a NAPL collection IRM has been implemented at the lake shore. Over 40,000 gallons of dichlorobenzene NAPL have been collected and properly disposed of off-site. Construction of the GWTP was completed in February 2006. Construction of the Semet portion of the Lakeshore Barrier Wall and groundwater collection system was completed in 2007. The Willis Avenue Portion of the Lakeshore Barrier Wall and collection system is currently being constructed.
Env Problem:	The primary contaminants at the site include mercury and chlorinated benzenes. Site media that have been impacted include groundwater and soil. Chlorinated benzene non-aqueous phase liquids (NAPLs)have been observed at and immediately downgradient (in the lake shore area)of the site. Contaminants in site groundwater exceed Part 703 water quality standards. Contamination in site media (including chlorinated benzenes in groundwater and the NAPLs) present a significant threat to the environment.
Health Problem:	Exposures via drinking water are not expected because this area is served by a public water supply. Groundwater contamination from this site impacts Onondaga Lake. This contamination contributes to the overall public health and environmental concerns associated with Onondaga Lake. For additional information look at the health assessment for site #734030, Mercury Sediments-Onondaga Lake.
Dump:	False
Structure:	False
Lagoon:	True
Landfill:	False
Pond:	False
Disp Start:	early 1900
Disp Term:	unknown
Lat/Long:	43:03:59:0 / 76:12:05:0
Dell:	False
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	11/18/1999 12:00:00 PM
Updated By:	INITIAL
Own Op:	Owner
Sub Type:	E
Owner Name:	Not reported
Owner Company:	ALLIED CHEMICAL
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	SOLVAY, NY 13209
Owner Country:	United States of America
Own Op:	Disp. Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Allied Chemical
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Allied Signal Corporation
Owner Address:	6711 Towpath Road
Owner Addr2:	Not reported

ALLIED CHEMICAL - WILLIS AVENUE SITE (Continued) **S103350658**

Owner City,St,Zip:	East Syracuse, NY 13057
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Allied Chemical
Owner Address:	6711 Towpath Road
Owner Addr2:	Not reported
Owner City,St,Zip:	East Syracuse, NY 13057
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	E
Owner Name:	Not reported
Owner Company:	ALLIED CHEMICAL
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	SOLVAY, NY 13209
Owner Country:	United States of America
HW Code:	734026
Waste Type:	DICHLOROBENZENE (MIXED)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734026
Waste Type:	DIOXIN
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734026
Waste Type:	ORTHO-DICHLOROBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734026
Waste Type:	1,2,3, AND 1,2,4-TRICHLOROBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734026
Waste Type:	CHLOROBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734026
Waste Type:	BENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734026
Waste Type:	TOLUENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734026
Waste Type:	XYLENE (MIXED)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734026
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734026
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN

ALLIED CHEMICAL - WILLIS AVENUE SITE (Continued) **S103350658**

Waste Code: Not reported
Crossref ID: Not reported
Cross Ref Type Code: Not reported
Cross Ref Type: Not reported
Record Added Date: Not reported
Record Updated: Not reported
Updated By: Not reported

T97 **LCP CHEMICAL /NY INC** **CERC-NFRAP** **1000106509**
SE **MATHEWS AVE** **CORRACTS** **NYD095586376**
> 1 **SOLVAY, NY 13209** **RCRA-LQG**
1.359 mi. **FINDS**
7178 ft. **Site 7 of 13 in cluster T** **RAATS**
MANIFEST
Relative: **MANIFEST**
Higher **NY Spills**
NY Hist Spills

Actual:
430 ft.

CERC-NFRAP:
Site ID: 0201656
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Addressed as Part of Another non-NPL Site

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: LCP CHEMICAL /NY INC
Alias Address: Not reported
ONONDAGA, NY

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 06/01/1981
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 12/29/1987
Priority Level: Addressed as part of an existing NPL site

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 12/29/1987
Priority Level: Not reported

CORRACTS:

EPA ID: NYD095586376
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 3/15/1992
Action: CA050 - RFA Completed
NAICS Code(s): 56291 325181 48849 48699
Remediation Services
Alkalies and Chlorine Manufacturing
Other Support Activities for Road Transportation

LCP CHEMICAL /NY INC (Continued) **1000106509**

All Other Pipeline Transportation
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD095586376
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 3/15/1992
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 56291 325181 48849 48699
Remediation Services
Alkalies and Chlorine Manufacturing
Other Support Activities for Road Transportation
All Other Pipeline Transportation
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD095586376
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 3/26/1992
Action: CA225IN - Stabilization Measures Evaluation, This facility is not, amenable to stabilization activity because of, a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available
NAICS Code(s): 56291 325181 48849 48699
Remediation Services
Alkalies and Chlorine Manufacturing
Other Support Activities for Road Transportation
All Other Pipeline Transportation
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD095586376
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 5/20/1992
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 56291 325181 48849 48699
Remediation Services
Alkalies and Chlorine Manufacturing
Other Support Activities for Road Transportation
All Other Pipeline Transportation
Original schedule date: 05/15/1992
Schedule end date: Not reported

EPA ID: NYD095586376
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 5/20/1992
Action: CA100 - RFI Imposition
NAICS Code(s): 56291 325181 48849 48699
Remediation Services
Alkalies and Chlorine Manufacturing
Other Support Activities for Road Transportation

LCP CHEMICAL /NY INC (Continued) **1000106509**

All Other Pipeline Transportation
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD095586376
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 6/15/1993
Action: CA210SF - CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA
NAICS Code(s): 56291 325181 48849 48699
Remediation Services
Alkalies and Chlorine Manufacturing
Other Support Activities for Road Transportation
All Other Pipeline Transportation
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD095586376
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 9/15/1995
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 56291 325181 48849 48699
Remediation Services
Alkalies and Chlorine Manufacturing
Other Support Activities for Road Transportation
All Other Pipeline Transportation
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD095586376
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 12/29/1987
Action: CA050PA - RFA Completed, Assessment was a PA-Plus
NAICS Code(s): 56291 325181 48849 48699
Remediation Services
Alkalies and Chlorine Manufacturing
Other Support Activities for Road Transportation
All Other Pipeline Transportation
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-LQG:
Date form received by agency: 01/01/2007
Facility name: LCP CHEMICALS, INC. (NY)
Facility address: MATHEWS AVENUE
SOLVAY, NY 13209
EPA ID: NYD095586376
Mailing address: BRITTONFIELD PARKWAY, SUITE 70
0
EAST SYRACUSE, NY 13057
Contact: ALFRED J LABUZ
Contact address: Not reported
Not reported
Contact country: US

LCP CHEMICAL /NY INC (Continued) **1000106509**

Contact telephone: (315) 441-4443
Telephone ext.: LABUZ
Contact email: AL.LABUZ@HONEYWELL.COM
EPA Region: 02
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: NO NAME FOUND
Owner/operator address: BANKRUPT OWNER
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/11/1979
Owner/Op end date: Not reported

Owner/operator name: LCP CHEMICALS-NY INC
Owner/operator address: PO BOX 98
SOLVAY, NY 13209
Owner/operator country: US
Owner/operator telephone: (315) 487-4700
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

LCP CHEMICAL /NY INC (Continued) **1000106509**

Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 02/28/2006
Facility name: LCP CHEMICALS, INC. (NY)
Classification: Large Quantity Generator

Date form received by agency: 02/27/2006
Facility name: LCP CHEMICALS, INC. (NY)
Classification: Large Quantity Generator

Date form received by agency: 06/24/2002
Facility name: LCP CHEMICALS, INC. (NY)
Site name: LCP CHEMICALS
Classification: Large Quantity Generator

Date form received by agency: 01/01/2001
Facility name: LCP CHEMICALS, INC. (NY)
Site name: NYSDEC/LCP CHEMICALS
Classification: Large Quantity Generator

Date form received by agency: 07/08/1999
Facility name: LCP CHEMICALS, INC. (NY)
Site name: L C P CHEMICALS
Classification: Not a generator, verified

Date form received by agency: 03/22/1996
Facility name: LCP CHEMICALS, INC. (NY)
Site name: LCP CHEMICALS
Classification: Large Quantity Generator

Date form received by agency: 10/01/1993
Facility name: LCP CHEMICALS, INC. (NY)
Site name: L C P CHEMICALS
Classification: Large Quantity Generator

Date form received by agency: 02/19/1992
Facility name: LCP CHEMICALS, INC. (NY)
Site name: LCP CHEMICALS-NEW YORK
Classification: Large Quantity Generator

Date form received by agency: 03/01/1990
Facility name: LCP CHEMICALS, INC. (NY)
Site name: LCP CHEMICALS COMPANY
Classification: Large Quantity Generator

Date form received by agency: 11/19/1980
Facility name: LCP CHEMICALS, INC. (NY)
Site name: L C P CHEMICALS
Classification: Not a generator, verified

Date form received by agency: 08/18/1980
Facility name: LCP CHEMICALS, INC. (NY)
Site name: L C P CHEMICALS
Classification: Large Quantity Generator

LCP CHEMICAL /NY INC (Continued) **1000106509**

Corrective Action Summary:

Event date:	12/29/1987
Event:	RFA Completed, Assessment was a PA-Plus.
Event date:	03/15/1992
Event:	RFA Completed
Event date:	03/15/1992
Event:	CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event date:	03/26/1992
Event:	Stabilization Measures Evaluation,This facility is not amenable to stabilization activity because of a lack of technical data. An evaluation has been completed, but further data is necessary to determine stabilization measures, feasibility or appropriateness. This status should be changed when data becomes available.
Event date:	05/20/1992
Event:	RFA Determination Of Need For An RFI, RFI is Necessary;
Event date:	05/20/1992
Event:	RFI Imposition
Event date:	06/15/1993
Event:	CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA.
Event date:	09/15/1995
Event:	RFI Workplan Approved

Facility Has Received Notices of Violations:

Regulation violated:	Not reported
Area of violation:	TSD IS-Ground-Water Monitoring
Date violation determined:	03/13/1987
Date achieved compliance:	03/09/1987
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	02/25/1987
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported
Regulation violated:	Not reported
Area of violation:	TSD IS-Ground-Water Monitoring
Date violation determined:	10/09/1986
Date achieved compliance:	03/09/1987
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	02/25/1987
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State

LCP CHEMICAL /NY INC (Continued) **1000106509**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 08/20/1985
Date achieved compliance: 12/16/1987
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/20/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 50000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 08/20/1985
Date achieved compliance: 12/16/1987
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 05/28/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 08/20/1985
Date achieved compliance: 12/16/1987
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 05/28/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 05/30/1985
Date achieved compliance: 12/16/1987
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 05/28/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 05/30/1985
Date achieved compliance: 12/16/1987
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/20/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 50000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 09/14/1982
Date achieved compliance: 06/15/1983
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 09/14/1982
Date achieved compliance: 06/15/1983
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/06/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/06/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

LCP CHEMICAL /NY INC (Continued) **1000106509**

Evaluation date: 09/26/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/07/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/06/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/13/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/25/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/13/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 03/09/1987
Evaluation lead agency: State

Evaluation date: 10/09/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 03/09/1987
Evaluation lead agency: State

Evaluation date: 09/03/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/10/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/24/1986
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/18/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/18/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 05/28/1986
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/07/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/20/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/20/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 12/16/1987
Evaluation lead agency: State

Evaluation date: 08/20/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 12/16/1987
Evaluation lead agency: State

Evaluation date: 05/30/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 12/16/1987
Evaluation lead agency: State

Evaluation date: 07/11/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

LCP CHEMICAL /NY INC (Continued) **1000106509**

Evaluation date: 06/22/1984
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/13/1983
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/14/1982
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 06/15/1983
Evaluation lead agency: State

Evaluation date: 09/14/1982
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 06/15/1983
Evaluation lead agency: State

FINDS:

Registry ID: 110001469544

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

LCP CHEMICAL /NY INC (Continued) **1000106509**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

NY MANIFEST:

EPA ID:	NYD095586376
Country:	USA
Mailing Name:	NYSDEC/LCP CHEMICALS CO
Mailing Contact:	N/S
Mailing Address:	5000 BRITTONFIELD PKWY STE 700
Mailing Address 2:	Not reported
Mailing City:	EAST SYRACUSE
Mailing State:	NY
Mailing Zip:	13057
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-431-4443

Document ID:	NYA2359764
Manifest Status:	Completed copy
Trans1 State ID:	NYU52915
Trans2 State ID:	Not reported
Generator Ship Date:	860512
Trans1 Recv Date:	860512
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860512
Part A Recv Date:	860514
Part B Recv Date:	860516
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	NYD080336241
Trans2 EPA ID:	Not reported
TSDF ID:	NYD080336241
Waste Code:	K106 - UNKNOWN
Quantity:	00016
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	058
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Quantity:	00004
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	012
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00001
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	86

Document ID:	NYA2617929
Manifest Status:	Completed copy
Trans1 State ID:	NYS-62739
Trans2 State ID:	Not reported
Generator Ship Date:	860410
Trans1 Recv Date:	860410
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860410
Part A Recv Date:	860414
Part B Recv Date:	860417
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	NYD097644801
Trans2 EPA ID:	Not reported
TSDF ID:	NYD080336241
Waste Code:	K106 - UNKNOWN
Quantity:	00005
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	018
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00017
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	062
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	86

Document ID:	NYA3109386
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	IL009
Trans2 State ID:	Not reported
Generator Ship Date:	861114
Trans1 Recv Date:	861114
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861114
Part A Recv Date:	861216
Part B Recv Date:	861120

LCP CHEMICAL /NY INC (Continued) **1000106509**

Generator EPA ID: NYD095586376
Trans1 EPA ID: ILD000805911
Trans2 EPA ID: Not reported
TSDF ID: NYD000824581
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00080
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 86

Document ID: NYA3914144
Manifest Status: Completed copy
Trans1 State ID: IL009
Trans2 State ID: Not reported
Generator Ship Date: 861218
Trans1 Recv Date: 861218
Trans2 Recv Date: Not reported
TSD Site Recv Date: 861218
Part A Recv Date: 861226
Part B Recv Date: 861226
Generator EPA ID: NYD095586376
Trans1 EPA ID: ILD000805911
Trans2 EPA ID: Not reported
TSDF ID: NYD000824581
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00080
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 86

Document ID: NYA2364102
Manifest Status: Completed copy
Trans1 State ID: 9A090
Trans2 State ID: 9A090
Generator Ship Date: 861222
Trans1 Recv Date: 861222
Trans2 Recv Date: Not reported
TSD Site Recv Date: 861223
Part A Recv Date: 870105
Part B Recv Date: 870105
Generator EPA ID: NYD095586376
Trans1 EPA ID: NYD080336241
Trans2 EPA ID: Not reported
TSDF ID: OHD087433744
Waste Code: K106 - UNKNOWN
Quantity: 00002
Units: Y - Cubic yards* (.85 tons)
Number of Containers: 008
Container Type: DM - Metal drums, barrels

LCP CHEMICAL /NY INC (Continued) **1000106509**

Handling Method: L Landfill.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00018
Units: Y - Cubic yards* (.85 tons)
Number of Containers: 072
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Year: 86

Document ID: NYA6642584
Manifest Status: Completed copy
Trans1 State ID: NY94390GT
Trans2 State ID: Not reported
Generator Ship Date: 870424
Trans1 Recv Date: 870424
Trans2 Recv Date: Not reported
TSD Site Recv Date: 870424
Part A Recv Date: 870430
Part B Recv Date: 870430
Generator EPA ID: NYD095586376
Trans1 EPA ID: ILD000805911
Trans2 EPA ID: Not reported
TSDF ID: NYD000824581
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00080
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 87

Document ID: NYA2617875
Manifest Status: Completed copy
Trans1 State ID: NYU-52915
Trans2 State ID: Not reported
Generator Ship Date: 860423
Trans1 Recv Date: 860423
Trans2 Recv Date: Not reported
TSD Site Recv Date: 860423
Part A Recv Date: 860428
Part B Recv Date: 860428
Generator EPA ID: NYD095586376
Trans1 EPA ID: NYD080336241
Trans2 EPA ID: Not reported
TSDF ID: NYD080336241
Waste Code: K106 - UNKNOWN
Quantity: 00016
Units: Y - Cubic yards* (.85 tons)
Number of Containers: 016
Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: L Landfill.
Specific Gravity: 100

LCP CHEMICAL /NY INC (Continued) **1000106509**

Waste Code:	Not reported
Quantity:	00004
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	014
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	86

Document ID:	NYA2359755
Manifest Status:	Completed copy
Trans1 State ID:	NYU52915
Trans2 State ID:	Not reported
Generator Ship Date:	860619
Trans1 Recv Date:	860619
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860619
Part A Recv Date:	860624
Part B Recv Date:	860624
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	NYD080336241
Trans2 EPA ID:	Not reported
TSDF ID:	NYD080336241
Waste Code:	K106 - UNKNOWN
Quantity:	00017
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	061
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	86

Document ID:	NYA6610498
Manifest Status:	Completed copy
Trans1 State ID:	NY94390GT
Trans2 State ID:	Not reported
Generator Ship Date:	870305
Trans1 Recv Date:	870305
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870305
Part A Recv Date:	870317
Part B Recv Date:	870317
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	87

LCP CHEMICAL /NY INC (Continued) **1000106509**

Document ID:	NYA3214822
Manifest Status:	Completed copy
Trans1 State ID:	X21063
Trans2 State ID:	Not reported
Generator Ship Date:	870630
Trans1 Recv Date:	870630
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870701
Part A Recv Date:	870702
Part B Recv Date:	870713
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	PAD981113749
Waste Code:	B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity:	09000
Units:	P - Pounds
Number of Containers:	056
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	05000
Units:	P - Pounds
Number of Containers:	009
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00580
Units:	P - Pounds
Number of Containers:	017
Container Type:	CW - Wooden boxes
Handling Method:	L Landfill.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	01000
Units:	P - Pounds
Number of Containers:	003
Container Type:	TP - Tanks, portable
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	87

Document ID:	MIA9457668
Manifest Status:	Not reported
Trans1 State ID:	NYD980769947
Trans2 State ID:	Not reported
Generator Ship Date:	03/16/2001
Trans1 Recv Date:	03/16/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/19/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	MID000724831

LCP CHEMICAL /NY INC (Continued) **1000106509**

Trans2 EPA ID:	Not reported
TSDF ID:	10393PNY
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00015
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	01

Document ID:	MNA2105770
Manifest Status:	Not reported
Trans1 State ID:	NJD080631369
Trans2 State ID:	WID988566543
Generator Ship Date:	05/22/2001
Trans1 Recv Date:	05/22/2001
Trans2 Recv Date:	05/30/2001
TSD Site Recv Date:	06/01/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	MN0000903468
Trans2 EPA ID:	Not reported
TSDF ID:	Not reported
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	04200
Units:	P - Pounds
Number of Containers:	006
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	01

Document ID:	MIA8457803
Manifest Status:	Not reported
Trans1 State ID:	NYD980769947
Trans2 State ID:	Not reported
Generator Ship Date:	03/21/2001
Trans1 Recv Date:	03/21/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/22/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	MID000724831
Trans2 EPA ID:	Not reported
TSDF ID:	15046PNY
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00035
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00

LCP CHEMICAL /NY INC (Continued) **1000106509**

Year: 01

Document ID: MIA8457804
Manifest Status: Not reported
Trans1 State ID: NYD980769947
Trans2 State ID: Not reported
Generator Ship Date: 03/21/2001
Trans1 Recv Date: 03/21/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 03/23/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD095586376
Trans1 EPA ID: MID000724831
Trans2 EPA ID: Not reported
TSDF ID: 15045PNY
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00035
Units: Y - Cubic yards* (.85 tons)
Number of Containers: 001
Container Type: DT - Dump trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 01

Document ID: MIA8457805
Manifest Status: Not reported
Trans1 State ID: NYD980769947
Trans2 State ID: Not reported
Generator Ship Date: 03/21/2001
Trans1 Recv Date: 03/21/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 03/22/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD095586376
Trans1 EPA ID: MID000724831
Trans2 EPA ID: Not reported
TSDF ID: 13035PNY
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00015
Units: Y - Cubic yards* (.85 tons)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 01

Document ID: MIA8457806
Manifest Status: Not reported
Trans1 State ID: NYD980769947
Trans2 State ID: Not reported
Generator Ship Date: 03/21/2001
Trans1 Recv Date: 03/21/2001

LCP CHEMICAL /NY INC (Continued) **1000106509**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/22/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	MID000724831
Trans2 EPA ID:	Not reported
TSDF ID:	15042P
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00035
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	01

Document ID:	MIA8457807
Manifest Status:	Not reported
Trans1 State ID:	NYD980769947
Trans2 State ID:	Not reported
Generator Ship Date:	03/21/2001
Trans1 Recv Date:	03/21/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/22/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	MID000724831
Trans2 EPA ID:	Not reported
TSDF ID:	15043PNY
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00035
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	01

Document ID:	MIA8457808
Manifest Status:	Not reported
Trans1 State ID:	NYD980769947
Trans2 State ID:	Not reported
Generator Ship Date:	03/21/2001
Trans1 Recv Date:	03/21/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/22/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	MID000724831
Trans2 EPA ID:	Not reported
TSDF ID:	15214PNY
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP

LCP CHEMICAL /NY INC (Continued) **1000106509**

Quantity:	00015
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	01

Document ID:	MIA8457809
Manifest Status:	Not reported
Trans1 State ID:	NYD980769947
Trans2 State ID:	Not reported
Generator Ship Date:	03/22/2001
Trans1 Recv Date:	03/22/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/23/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	MID000724831
Trans2 EPA ID:	Not reported
TSDF ID:	15214PNY
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00015
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	01

Document ID:	MIA8457810
Manifest Status:	Not reported
Trans1 State ID:	NYD980769947
Trans2 State ID:	Not reported
Generator Ship Date:	03/22/2001
Trans1 Recv Date:	03/22/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/23/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD095586376
Trans1 EPA ID:	MID000724831
Trans2 EPA ID:	Not reported
TSDF ID:	13035PNY
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00015
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	01

LCP CHEMICAL /NY INC (Continued) **1000106509**

Click this hyperlink while viewing on your computer to access
502 additional NY_MANIFEST: record(s) in the EDR Site Report.

NJ MANIFEST:

Manifest Code:	NJA5233115
EPA ID:	NYD095586376
Date Shipped:	20050105
TSDF EPA ID:	NJD002385730
Transporter EPA ID:	NJD000692061
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	050105
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050105
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	03220521
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5233116
EPA ID:	NYD095586376
Date Shipped:	20050105
TSDF EPA ID:	NJD002385730
Transporter EPA ID:	NJD000692061
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	050105

LCP CHEMICAL /NY INC (Continued) **1000106509**

Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050105
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 03220521
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5233120
EPA ID: NYD095586376
Date Shipped: 20050103
TSDF EPA ID: NJD002385730
Transporter EPA ID: NYD980769947
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050103
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050103
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 03040521
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5233123
EPA ID: NYD095586376
Date Shipped: 20050104
TSDF EPA ID: NJD002385730
Transporter EPA ID: NJD000692061
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050104
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050104
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 03220521
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5262060
EPA ID: NYD095586376
Date Shipped: 20051130
TSDF EPA ID: NJD002385730
Transporter EPA ID: NYD980769947
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 051130

LCP CHEMICAL /NY INC (Continued) **1000106509**

Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	051130
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	02140622
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5233111
EPA ID:	NYD095586376
Date Shipped:	20050112
TSDF EPA ID:	NJD002385730
Transporter EPA ID:	NJD000692061
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	050112
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050112
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	03160522
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5229216
EPA ID: NYD095586376
Date Shipped: 20050113
TSDF EPA ID: NJD002385730
Transporter EPA ID: NJD000692061
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050113
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050113
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 02070521
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5233110
EPA ID: NYD095586376
Date Shipped: 20050112
TSDF EPA ID: NJD002385730
Transporter EPA ID: NJD000692061
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050112

LCP CHEMICAL /NY INC (Continued) **1000106509**

Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050112
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	03160522
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5233108
EPA ID:	NYD095586376
Date Shipped:	20050111
TSDF EPA ID:	NJD002385730
Transporter EPA ID:	NJD000692061
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	050111
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050111
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	03150521
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5233109
EPA ID: NYD095586376
Date Shipped: 20050111
TSDF EPA ID: NJD002385730
Transporter EPA ID: NJD000692061
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050111
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050111
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 03160522
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5233118
EPA ID: NYD095586376
Date Shipped: 20050103
TSDF EPA ID: NJD002385730
Transporter EPA ID: NYD980769947
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050103

LCP CHEMICAL /NY INC (Continued) **1000106509**

Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050103
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	03040521
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5262064
EPA ID:	NYD095586376
Date Shipped:	20051209
TSDF EPA ID:	NJD002385730
Transporter EPA ID:	NYD980769947
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	051209
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	051209
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	02220622
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5233112
EPA ID: NYD095586376
Date Shipped: 20050114
TSDF EPA ID: NJD002385730
Transporter EPA ID: NJD000692061
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050114
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050114
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 02080522
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA4098500
EPA ID: NYD095586376
Date Shipped: 20050104
TSDF EPA ID: NJD002385730
Transporter EPA ID: NJD000692061
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050104

LCP CHEMICAL /NY INC (Continued) **1000106509**

Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050104
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	03220521
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5233113
EPA ID:	NYD095586376
Date Shipped:	20050105
TSDF EPA ID:	NJD002385730
Transporter EPA ID:	NYD980769947
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	050105
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050105
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	03220521
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5229217
EPA ID: NYD095586376
Date Shipped: 20050113
TSDF EPA ID: NJD002385730
Transporter EPA ID: NJD000692061
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050113
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050113
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 02070521
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5233114
EPA ID: NYD095586376
Date Shipped: 20050105
TSDF EPA ID: NJD002385730
Transporter EPA ID: NYD980769947
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050105

LCP CHEMICAL /NY INC (Continued) **1000106509**

Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	050105
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	03220521
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

Manifest Code:	NJA5262065
EPA ID:	NYD095586376
Date Shipped:	20051130
TSDF EPA ID:	NJD002385730
Transporter EPA ID:	NYD980769947
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	051130
Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	051130
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	02140622
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA5233117
EPA ID: NYD095586376
Date Shipped: 20050103
TSDF EPA ID: NJD002385730
Transporter EPA ID: NJD000692061
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 050103
Date Trans2 Transported Waste: 000000
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 050103
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Data Entry Number: 03040521
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: NJA4098479
EPA ID: NYD095586376
Date Shipped: 20041209
TSDF EPA ID: NJD002385730
Transporter EPA ID: NYD980769947
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 041209

LCP CHEMICAL /NY INC (Continued) **1000106509**

Date Trans2 Transported Waste:	000000
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	041209
Tranporter 1 Decal:	Not reported
Tranporter 2 Decal:	Not reported
Data Entry Number:	01190521
Reference Manifest Number:	Not reported
Was Load Rejected (Y/N):	No
Reason Load Was Rejected:	Not reported
Waste Code:	Not reported
Manifest Year:	Not reported
Quantity:	Not reported
Unit:	Not reported
Hand Code:	Not reported

NY Spills:

Site ID:	121767
Facility Addr2:	Not reported
Facility ID:	8704315
Spill Number:	8704315
Facility Type:	ER
SWIS:	3400
Investigator:	AJMARSCH
Referred To:	Not reported
Spill Date:	8/25/1987
Reported to Dept:	8/25/1987
CID:	Not reported
Spill Cause:	Unknown
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	8/25/1987
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	8/25/1987
Remediation Phase:	0
Date Entered In Computer:	8/27/1987
Spill Record Last Update:	8/27/1987
Spiller Name:	Not reported
Spiller Company:	LCP CHEMICAL
Spiller Address:	MATHEWS AVE.
Spiller City,St,Zip:	SOLVAY, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

DEC Region: 7
DER Facility ID: 169340
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "JM" / / : LCP IS LOOKING FOR POSSIBLE CAUSE OF RELEASE. / / : LCP IS LOOKING FOR POSSIBLE CAUSE OF RELEASE. TURNED OVER TO AIR.
Remarks: 3 MEN AT CRUCIBLE STEEL WERE EXPOSED & OVERCOME TO A CHLORINE GAS RELEASE. LCP WAS UNAWARE THAT RELEASE OCCURRED.

Material:
Site ID: 121767
Operable Unit ID: 908157
Operable Unit: 01
Material ID: 466958
Material Code: 0027A
Material Name: CHLORINE
Case No.: 07782505
Material FA: Hazardous Material
Quantity: 0
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False
Site ID: 121767
Operable Unit ID: 908157
Operable Unit: 01
Material ID: 466957
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

Site ID: 203625
Facility Addr2: Not reported
Facility ID: 8703128
Spill Number: 8703128
Facility Type: ER
SWIS: 3400
Investigator: HDWARNER
Referred To: Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Spill Date:	7/17/1987
Reported to Dept:	7/17/1987
CID:	Not reported
Spill Cause:	Equipment Failure
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	7/22/1988
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	7/22/1988
Remediation Phase:	0
Date Entered In Computer:	7/20/1987
Spill Record Last Update:	8/9/1988
Spiller Name:	Not reported
Spiller Company:	LCP CHEMICAL
Spiller Address:	MATHEWS AVENUE
Spiller City,St,Zip:	SOLVAY, NY 13209
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	169340
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "HW" / / : APPEARS TO BE SEVERAL SPDES VIOLATIONS ONGOING AT FACILITY. ENV. OIL WAS HIRED TO CLEAN THE SPILL. 07/17/88: LCP IS CURRENTLY UNDER CONSENT ORDER BY SPDES PROGRAM WORDEN TO ELIMINATE ILLEGAL DISCHARGES. 09/28/95: This is additional information about material spilled from the translation of the old spill file: HIGH ALIC. PH 11-12.
Remarks:	SPILL RESULTED FROM PIPE BREAK AND WASTE SOLIDS TANK OVERFLOW. A CONSIDERABLE AMOUNT OF SOLIDS REMAINED ON BLACK TOP AROUND WASTE SOLID

Material:

Site ID:	203625
Operable Unit ID:	909639
Operable Unit:	01
Material ID:	469392
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

NY Hist Spills:
Region of Spill: 7
Spill Number: 8706974
Investigator: DV
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 11/16/1987 13:12
Reported to Dept Date/Time: 11/16/87 13:12
SWIS: 31
Spiller Name: LCP CHEMICALS
Spiller Contact: Not reported
Spiller Phone: (315) 487-4700
Spiller Address: MATHEWS AVE.
Spiller City,St,Zip: SOLVAY, NY
Spill Cause: Equipment Failure
Reported to Dept: Air
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Federal Government
PBS Number: Not reported
Cleanup Ceased: 11/16/87
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 11/16/87
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 12/02/87
Date Spill Entered In Computer Data File: Not reported
Update Date: 02/22/88
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported

LCP CHEMICAL /NY INC (Continued) **1000106509**

Gross Leak Rate: Not reported

Material:
Material Class Type: Not reported
Quantity Spilled: Not reported
Unkonwn Quantity Spilled: Not reported
Units: Not reported
Quantity Recovered: Not reported
Unkonwn Quantity Recovered: Not reported
Material: Not reported
Class Type: Not reported
Times Material Entry In File: Not reported
CAS Number: Not reported
Last Date: Not reported
DEC Remarks: 11/16/87: AIR FOLLOWED UP. 09/28/95: This is additional information about material spilled from the translation of the old spill file: CHLORINE GAS.
Remark: POTHEAD FAILURE IN CELL BLDG. ONONDAGA CO. H.D. AND MIKE BLEE RESPONDED.

Region of Spill: 7
Spill Number: 8704315
Investigator: JM
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 08/25/1987 08:30
Reported to Dept Date/Time: 08/25/87 10:00
SWIS: 31
Spiller Name: LCP CHEMICAL
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: MATHEWS AVE.
Spiller City,St,Zip: SOLVAY, NY
Spill Cause: Unknown
Reported to Dept: Air
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: 08/25/87
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 08/25/87
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 08/27/87
Date Spill Entered In Computer Data File: Not reported
Update Date: 08/27/87
Is Updated: False

LCP CHEMICAL /NY INC (Continued) **1000106509**

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	UNKNOWN PETROLEUM
Class Type:	UNKNOWN PETROLEUM
Times Material Entry In File:	16414
CAS Number:	Not reported
Last Date:	19940929
Material Class Type:	Nonpetroleum/Nonhazardous
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	CHLORINE
Class Type:	CHLORINE
Times Material Entry In File:	0
CAS Number:	07782505
Last Date:	Not reported
DEC Remarks:	/ / : LCP IS LOOKING FOR POSSIBLE CAUSE OF RELEASE. / / : LCP IS LOOKING FOR POSSIBLE CAUSE OF RELEASE. TURNED OVER TO AIR.
Remark:	3 MEN AT CRUCIBLE STEEL WERE EXPOSED OVERCOME TO A CHLORINE GAS RELEASE. LCP WAS UNAWARE THAT RELEASE OCCURRED.

Region of Spill:	7
Spill Number:	8703128
Investigator:	HW
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	07/17/1987 21:00
Reported to Dept Date/Time:	07/17/87 23:09
SWIS:	31
Spiller Name:	LCP CHEMICAL
Spiller Contact:	Not reported
Spiller Phone:	(315) 487-4700
Spiller Address:	MATHEWS AVENUE
Spiller City,St,Zip:	SOLVAY, NY 13209
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	01

LCP CHEMICAL /NY INC (Continued) **1000106509**

Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: 07/22/88
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 07/22/88
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 07/20/87
Date Spill Entered In Computer Data File: Not reported
Update Date: 08/09/88
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: / / : APPEARS TO BE SEVERAL SPDES VIOLATIONS ONGOING AT FACILITY. ENV. OIL WAS HIRED TO CLEAN THE SPILL. 07/17/88: LCP IS CURRENTLY UNDER CONSENT ORDER BY SPDES PROGRAM WORDEN TO ELIMINATE ILLEGAL DISCHARGES. 09/28/95: This is additional information about material spilled from the translation of the old spill file: HIGH ALIC. PH 11-12.
Remark: SPILL RESULTED FROM PIPE BREAK AND WASTE SOLIDS TANK OVERFLOW. A CONSIDERABLE AMOUNT OF SOLIDS REMAINED ON BLACK TOP AROUND WASTE SOLID

Region of Spill: 7
Spill Number: 8802723
Investigator: HW
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 06/25/1988 20:45
Reported to Dept Date/Time: 06/27/88 09:15

LCP CHEMICAL /NY INC (Continued) **1000106509**

SWIS: 31
Spiller Name: LCP CHEMICALS
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: Not reported
Spill Cause: Equipment Failure
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Federal Government
PBS Number: Not reported
Cleanup Ceased: 06/27/88
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 06/27/88
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 06/28/88
Date Spill Entered In Computer Data File: Not reported
Update Date: 02/17/95
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Nonpetroleum/Nonhazardous
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: MERCURY
Class Type: MERCURY
Times Material Entry In File: 0
CAS Number: 07439976
Last Date: Not reported
DEC Remarks: 06/25/88: ON GOING SPDES VIOLATION, WHICH IS BEING HANDLED BY SPDES PROGRAM. SPDES PROGRAM UNDER GOING ENFORCEMENT ACTION AGAINST LCP CHEM. FOR THESE DAMAGES.
Remark: 4/5-1.4 LBS 4/19 5.8 LBS; 4/26- 4.0 LBS; 5/31.0 LBS; 6/14-1.9 LBS; 5/31 -1.34LBS GEDDES BROOK.)

Region of Spill: 7
Spill Number: 8802598
Investigator: DV

LCP CHEMICAL /NY INC (Continued) **1000106509**

Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 04/05/1988 12:00
Reported to Dept Date/Time: 06/22/88 07:57
SWIS: 31
Spiller Name: LCP CHEMICAL
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: SOLVAY
Spill Cause: Housekeeping
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 01
Spill Notifier: Responsible Party
PBS Number: Not reported
Cleanup Ceased: 06/22/88
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 06/22/88
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 07/01/88
Date Spill Entered In Computer Data File: Not reported
Update Date: 07/01/88
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Nonpetroleum/Nonhazardous
Quantity Spilled: 80000
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: SODIUM HYPOCHLORITE
Class Type: SODIUM HYPOCHLORITE
Times Material Entry In File: 0
CAS Number: 07681529
Last Date: Not reported
DEC Remarks: 06/22/88: REFERRED TO STEVE LACKEY FOR FOLLOW UP.

LCP CHEMICAL /NY INC (Continued) **1000106509**

Remark: CONTACT PERSON: JAMES ROGERS DUMPING TO ALLIED WASTE

T98 **FRAZER AND JONES** **NY Spills** **S108981664**
SE **3000 MILTON AVE** **N/A**
> 1 **SOLVAY, NY 13209**
1.360 mi.
7179 ft. **Site 8 of 13 in cluster T**

Relative: Higher

Actual: 431 ft.

NY Spills:

Site ID:	391662
Facility Addr2:	Not reported
Facility ID:	0710389
Spill Number:	0710389
Facility Type:	ER
SWIS:	3432
Investigator:	kckemp
Referred To:	Not reported
Spill Date:	12/31/2007
Reported to Dept:	12/31/2007
CID:	408
Spill Cause:	Human Error
Water Affected:	DRAIN
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	1/2/2008
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	1/2/2008
Remediation Phase:	0
Date Entered In Computer:	12/31/2007
Spill Record Last Update:	1/2/2008
Spiller Name:	GLEN MONNELL
Spiller Company:	FACILITY
Spiller Address:	3000 MOUNTAIN AVE
Spiller City,St,Zip:	SOLVAY, NY 13209
Spiller Company:	001
Contact Name:	GLEN MONNELL
Contact Phone:	(315) 468-6251 135
DEC Region:	7
DER Facility ID:	341263
DEC Memo:	12/31/2007-called, left message. MSDS downloaded and eDoc'd. 1/2/08-returned call. Oil in shop vac poured down catch basin. Boom placed in storm drain and at outlet from storm drain. Most oil recovered, but some did escape site into local surface water drainage. Not reported
Remarks:	WATER BASED COOLANT CALLED BLASOCUT 2000X ART.870-40 ; ANOTHER CONTACT IS MARK AT THE SAME NUMBER BUT EXT. 147; CLEAN UP IN PROGRESS;

Material:

Site ID:	391662
Operable Unit ID:	1148705
Operable Unit:	01
Material ID:	2139200
Material Code:	0064A

FRAZER AND JONES (Continued) **S108981664**

Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	1
Units:	Gallons
Recovered:	0.5
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

T99 **FRAZER AND JONES CO.** **SWF/LF** **S105842130**
SE **3000 MILTON AVE** **N/A**
> 1 **SYRACUSE, NY 13221**
1.360 mi.
7179 ft. **Site 9 of 13 in cluster T**

Relative:
Higher

Actual:
431 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	7
Phone Number:	3154686251
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Raymond Wright
Contact Address:	3000 Milton Ave
Contact Addr2:	P.O. Box 4955
Contact City,St,Zip:	Syracuse, NY 13221
Contact Email:	Not reported
Contact Phone:	3154666251
Activity Desc:	Landfill - mixed solid waste
Activity Number:	34S75
Active:	No
East Coordinate:	399980
North Coordinate:	4768125
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	Foundry Sand
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

T100 **FRAZER & JONES** **CERC-NFRAP** **1000443179**
SE **3000 MILTON AVE** **RCRA-NonGen** **NYD002225597**
> 1 **SOLVAY, NY 13209** **MANIFEST**
1.360 mi.
7179 ft. **Site 10 of 13 in cluster T**

Relative:
Higher

Actual:
431 ft.

CERC-NFRAP:
Site ID: 0201438
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 05/01/1979
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 02/25/1987
Date Completed: 03/05/1987
Priority Level: NFRAP: No further Remedial Action planned

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 03/05/1987
Priority Level: Not reported

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: FRAZER & JONES CO
Facility address: 3000 MILTON AVE
SYRACUSE, NY 13221
EPA ID: NYD002225597
Mailing address: PO BOX 4955
SYRACUSE, NY 13221
Contact: Not reported
Contact address: PO BOX 4955
SYRACUSE, NY 13221
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: THE EASTERN CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

FRAZER & JONES (Continued) **1000443179**

Owner/operator name: THE EASTERN CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: FRAZER & JONES CO
Classification: Not a generator, verified

Date form received by agency: 08/24/1992
Facility name: FRAZER & JONES CO
Classification: Not a generator, verified

Date form received by agency: 03/01/1990
Facility name: FRAZER & JONES CO
Site name: FRAZER AND JONES COMPANY
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Facility name: FRAZER & JONES CO
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 07/25/2007
Date achieved compliance: 05/02/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/11/2008
Enf. disposition status: Action Satisfied (Case Closed)

FRAZER & JONES (Continued) **1000443179**

Enf. disp. status date: 05/02/2008
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 06/27/1989
Date achieved compliance: 06/29/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/27/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/25/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 05/02/2008
Evaluation lead agency: State

Evaluation date: 04/29/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 06/27/1989
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Manifest
Date achieved compliance: 06/29/1989
Evaluation lead agency: State

Evaluation date: 12/17/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

NY MANIFEST:
EPA ID: NYD002225597
Country: USA
Mailing Name: FRAZER AND JONES COMPANY
Mailing Contact: A THOMAS GIANNONE
Mailing Address: PO BOX 4955
Mailing Address 2: Not reported
Mailing City: SYRACUSE
Mailing State: NY
Mailing Zip: 13221
Mailing Zip4: Not reported
Mailing Country: USA

FRAZER & JONES (Continued) **1000443179**

Mailing Phone: 315-468-6251

Document ID: NYA3996415
Manifest Status: Completed copy
Trans1 State ID: U55689NY
Trans2 State ID: Not reported
Generator Ship Date: 860130
Trans1 Recv Date: 860130
Trans2 Recv Date: Not reported
TSD Site Recv Date: 860131
Part A Recv Date: 860204
Part B Recv Date: 860212
Generator EPA ID: NYD002225597
Trans1 EPA ID: NYD080336241
Trans2 EPA ID: Not reported
TSDF ID: OHD000816629
Waste Code: B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity: 00800
Units: P - Pounds
Number of Containers: 001
Container Type: CW - Wooden boxes
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 86

Document ID: PAB4762376
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: PA-AH0175
Trans2 State ID: PA-AH
Generator Ship Date: 871222
Trans1 Recv Date: 871222
Trans2 Recv Date: Not reported
TSD Site Recv Date: 871223
Part A Recv Date: 871228
Part B Recv Date: 880127
Generator EPA ID: NYD002225597
Trans1 EPA ID: NJD982270258
Trans2 EPA ID: Not reported
TSDF ID: PAD085690592
Waste Code: K062 - SP PICKLE LIQUOR FM STEEL OPTS
Quantity: 04100
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 87

Document ID: MIA1448377
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: PA-044AH0
Trans2 State ID: Not reported
Generator Ship Date: 880510
Trans1 Recv Date: 880510

FRAZER & JONES (Continued) **1000443179**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880511
Part A Recv Date:	891010
Part B Recv Date:	891005
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	PAD085690592
Trans2 EPA ID:	Not reported
TSDF ID:	MID000724831
Waste Code:	K062 - SP PICKLE LIQUOR FM STEEL OPTS
Quantity:	05350
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	88

Document ID:	NYA6100632
Manifest Status:	Completed copy
Trans1 State ID:	N67868
Trans2 State ID:	Not reported
Generator Ship Date:	870205
Trans1 Recv Date:	870205
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870209
Part A Recv Date:	870228
Part B Recv Date:	870218
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	NYD046765574
Trans2 EPA ID:	Not reported
TSDF ID:	MOD980962849
Waste Code:	B005 - PCB ARTICLES WITH 500 PPM OR > PCB
Quantity:	07550
Units:	P - Pounds
Number of Containers:	003
Container Type:	CW - Wooden boxes
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	03000
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00750
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	87

Document ID:	MIA1449183

FRAZER & JONES (Continued) **1000443179**

Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AH0139PA-
Trans2 State ID:	Not reported
Generator Ship Date:	880420
Trans1 Recv Date:	880420
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880421
Part A Recv Date:	891010
Part B Recv Date:	891005
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	PAD085690592
Trans2 EPA ID:	Not reported
TSDF ID:	MID000724831
Waste Code:	K062 - SP PICKLE LIQUOR FM STEEL OPTS
Quantity:	02825
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	88

Document ID:	ARA2741410
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	H10PC708
Trans2 State ID:	Not reported
Generator Ship Date:	880928
Trans1 Recv Date:	880928
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881004
Part A Recv Date:	881102
Part B Recv Date:	881019
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	ARD069748192
Trans2 EPA ID:	Not reported
TSDF ID:	ARP000404000
Waste Code:	B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity:	03935
Units:	P - Pounds
Number of Containers:	002
Container Type:	CW - Wooden boxes
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	88

Document ID:	NYA5594436
Manifest Status:	Completed copy
Trans1 State ID:	PA-044
Trans2 State ID:	Not reported
Generator Ship Date:	881128
Trans1 Recv Date:	881128
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881128
Part A Recv Date:	881201
Part B Recv Date:	881216

FRAZER & JONES (Continued) **1000443179**

Generator EPA ID: NYD002225597
Trans1 EPA ID: PAD085690592
Trans2 EPA ID: Not reported
TSDF ID: NYD000691949
Waste Code: K062 - SP PICKLE LIQUOR FM STEEL OPTS
Quantity: 05500
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 88

Document ID: NYA5594463
Manifest Status: Completed copy
Trans1 State ID: PA-044
Trans2 State ID: Not reported
Generator Ship Date: 890104
Trans1 Recv Date: 890104
Trans2 Recv Date: Not reported
TSD Site Recv Date: 890105
Part A Recv Date: 890106
Part B Recv Date: 890124
Generator EPA ID: NYD002225597
Trans1 EPA ID: PAD085690592
Trans2 EPA ID: Not reported
TSDF ID: NYD000691949
Waste Code: K062 - SP PICKLE LIQUOR FM STEEL OPTS
Quantity: 05000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 89

Document ID: NYA5594472
Manifest Status: Completed copy
Trans1 State ID: PA-044
Trans2 State ID: Not reported
Generator Ship Date: 890104
Trans1 Recv Date: 890104
Trans2 Recv Date: Not reported
TSD Site Recv Date: 890105
Part A Recv Date: 890106
Part B Recv Date: 890127
Generator EPA ID: NYD002225597
Trans1 EPA ID: PAD085690592
Trans2 EPA ID: Not reported
TSDF ID: NYD000691949
Waste Code: K062 - SP PICKLE LIQUOR FM STEEL OPTS
Quantity: 05000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks

FRAZER & JONES (Continued) **1000443179**

Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 89

Document ID: PAB5343472
Manifest Status: Completed copy
Trans1 State ID: PA-AH0136
Trans2 State ID: Not reported
Generator Ship Date: 890531
Trans1 Recv Date: 890531
Trans2 Recv Date: Not reported
TSD Site Recv Date: 890601
Part A Recv Date: 890607
Part B Recv Date: 890613
Generator EPA ID: NYD002225597
Trans1 EPA ID: NYD088658646
Trans2 EPA ID: Not reported
TSDF ID: PAD085690592
Waste Code: K062 - SP PICKLE LIQUOR FM STEEL OPTS
Quantity: 00385
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 007
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: L Landfill.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 01000
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Year: 89

Document ID: PAC1244246
Manifest Status: Completed copy
Trans1 State ID: PA-AH0136
Trans2 State ID: Not reported
Generator Ship Date: 891107
Trans1 Recv Date: 891107
Trans2 Recv Date: Not reported
TSD Site Recv Date: 891108
Part A Recv Date: 891114
Part B Recv Date: 891127
Generator EPA ID: NYD002225597
Trans1 EPA ID: NYD088658646
Trans2 EPA ID: Not reported
TSDF ID: PAD085690592
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 09750
Units: P - Pounds
Number of Containers: 011
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100

FRAZER & JONES (Continued) **1000443179**

Year: 89

Document ID: ARA4065650
Manifest Status: Completed copy
Trans1 State ID: PC708H10
Trans2 State ID: Not reported
Generator Ship Date: 890829
Trans1 Recv Date: 890829
Trans2 Recv Date: Not reported
TSD Site Recv Date: 890907
Part A Recv Date: 890905
Part B Recv Date: 890922
Generator EPA ID: NYD002225597
Trans1 EPA ID: ARD069748192
Trans2 EPA ID: Not reported
TSDF ID: ARP000404000
Waste Code: B005 - PCB ARTICLES WITH 500 PPM OR > PCB
Quantity: 00781
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 89

Document ID: NYO2806398
Manifest Status: Completed copy
Trans1 State ID: 7A-002
Trans2 State ID: Not reported
Generator Ship Date: 840319
Trans1 Recv Date: 840319
Trans2 Recv Date: Not reported
TSD Site Recv Date: 840321
Part A Recv Date: 840322
Part B Recv Date: 840329
Generator EPA ID: NYD002225597
Trans1 EPA ID: NYD088658646
Trans2 EPA ID: Not reported
TSDF ID: OHD000816629
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 12894
Units: P - Pounds
Number of Containers: 004
Container Type: CF - Fiber or plastic boxes, cartons
Handling Method: Not reported
Specific Gravity: 100
Year: 84

Document ID: NYO2917053
Manifest Status: Completed copy
Trans1 State ID: 98090
Trans2 State ID: Not reported
Generator Ship Date: 831122
Trans1 Recv Date: 831122

FRAZER & JONES (Continued) **1000443179**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	831123
Part A Recv Date:	031205
Part B Recv Date:	031205
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	NYD080336241
Trans2 EPA ID:	Not reported
TSDF ID:	NYD080336241
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	05000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	83

Document ID:	NYO1715499
Manifest Status:	Completed copy
Trans1 State ID:	9A098
Trans2 State ID:	Not reported
Generator Ship Date:	840619
Trans1 Recv Date:	840619
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840619
Part A Recv Date:	840703
Part B Recv Date:	840627
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	NYD051809952
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84

Document ID:	NYO1715508
Manifest Status:	Completed copy
Trans1 State ID:	9A080
Trans2 State ID:	Not reported
Generator Ship Date:	840622
Trans1 Recv Date:	840622
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840622
Part A Recv Date:	840703
Part B Recv Date:	840627
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	NYD097644801
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D008 - LEAD 5.0 MG/L TCLP

FRAZER & JONES (Continued) **1000443179**

Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84

Document ID:	NYO1715517
Manifest Status:	Completed copy
Trans1 State ID:	9A080
Trans2 State ID:	Not reported
Generator Ship Date:	840622
Trans1 Recv Date:	840622
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840622
Part A Recv Date:	840703
Part B Recv Date:	840627
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	NYD097644801
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84

Document ID:	NYO1715643
Manifest Status:	Completed copy
Trans1 State ID:	9A080
Trans2 State ID:	Not reported
Generator Ship Date:	840628
Trans1 Recv Date:	840628
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840629
Part A Recv Date:	840703
Part B Recv Date:	840709
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	NYD097644801
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00660
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	012
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84

FRAZER & JONES (Continued) **1000443179**

Document ID:	NYO1715364
Manifest Status:	Completed copy
Trans1 State ID:	9A098
Trans2 State ID:	Not reported
Generator Ship Date:	840619
Trans1 Recv Date:	840619
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840619
Part A Recv Date:	840703
Part B Recv Date:	840627
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	NYD051809952
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84

Document ID:	NYO1715472
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	9A098
Trans2 State ID:	Not reported
Generator Ship Date:	840619
Trans1 Recv Date:	840619
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	840619
Part A Recv Date:	840716
Part B Recv Date:	840627
Generator EPA ID:	NYD002225597
Trans1 EPA ID:	NYD051809952
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	84

Click this hyperlink while viewing on your computer to access
6 additional NY_MANIFEST: record(s) in the EDR Site Report.

T101 **FRAISER & JONES** **NY Spills** **S102167934**
SE **3000 MILTON AVENUE** **NY Hist Spills** **N/A**
> 1 **SYRACUSE, NY**
1.360 mi.
7179 ft. **Site 11 of 13 in cluster T**

Relative:
Higher

Actual:
431 ft.

NY Spills:

Site ID:	104051
Facility Addr2:	Not reported
Facility ID:	9501625
Spill Number:	9501625
Facility Type:	ER
SWIS:	3415
Investigator:	HDWARNER
Referred To:	Not reported
Spill Date:	5/9/1995
Reported to Dept:	5/9/1995
CID:	Not reported
Spill Cause:	Traffic Accident
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/5/2002
Remediation Phase:	0
Date Entered In Computer:	5/12/1995
Spill Record Last Update:	8/5/2002
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	91982
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "HW"
Remarks:	OVER TURNED TRUCK LEAKING FROM SADDLE TANKS. FIRE DEPT ON SCENE.

Material:

Site ID:	104051
Operable Unit ID:	1012642
Operable Unit:	01
Material ID:	366698
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

FRAISER & JONES (Continued) **S102167934**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	9501625
Investigator:	HW
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	05/09/1995 11:20
Reported to Dept Date/Time:	05/09/95 11:28
SWIS:	31
Spiller Name:	UNKNOWN
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spill Cause:	Traffic Accident
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	07
Spill Notifier:	Affected Persons
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	05/12/95
Date Spill Entered In Computer Data File:	Not reported
Update Date:	/ /
Is Updated:	False

Tank:

PBS Number:	Not reported

FRAISER & JONES (Continued) **S102167934**

Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 5
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Remark: OVER TURNED TRUCK LEAKING FROM SADDLE TANKS. FIRE DEPT ON SCENE.

T102 **FRAZER & JONES COMPANY** **AST** **A100304719**
SE **3000 MILTON AVE** **N/A**
> 1 **SYRACUSE, NY 13209**
1.360 mi.
7179 ft. **Site 12 of 13 in cluster T**

Relative:
Higher

Actual:
431 ft.

AST:
Region: STATE
DEC Region: 7
Site Status: Active
Facility Id: 7-601156
Program Type: PBS
UTM X: 399987.67392999999
UTM Y: 4768115.1001399998
Expiration Date: 2012/05/22

Affiliation Records:
Site Id: 381823
Affiliation Type: On-Site Operator
Company Name: FRAZER & JONES COMPANY
Contact Type: Not reported
Contact Name: MARK NOVAKOWSKI
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 468-6251
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: KCKemp
Date Last Modified: 5/22/2007

Site Id: 381823
Affiliation Type: Owner
Company Name: EASTERN COMPANY

FRAZER & JONES COMPANY (Continued) **A100304719**

Contact Type:	MANAGING DIRECTOR
Contact Name:	MARK NOVAKOWSKI
Address1:	PO BOX 460
Address2:	Not reported
City:	NAUGATUCK
State:	CT
Zip Code:	06770
Country Code:	001
Phone:	(203) 729-2255
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKemp
Date Last Modified:	5/22/2007

Site Id:	381823
Affiliation Type:	Mail Contact
Company Name:	FRAZER & JONES COMPANY
Contact Type:	Not reported
Contact Name:	JEFF GETMAN
Address1:	3000 MILTON AVE
Address2:	PO BOX 4955
City:	SYRACUSE
State:	NY
Zip Code:	13221
Country Code:	001
Phone:	(315) 468-6251
Phone Ext:	148
Email:	MNOVAKOWSKI@FRAZERANDJONES.COM
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	7/24/2009

Site Id:	381823
Affiliation Type:	Emergency Contact
Company Name:	EASTERN COMPANY
Contact Type:	Not reported
Contact Name:	DAVID ALFIERI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 468-6251
Phone Ext:	124
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKemp
Date Last Modified:	5/22/2007

Equipment Records:

J00 - Dispenser - None
H00 - Tank Leak Detection - None
E00 - Piping Secondary Containment - None
E00 - Piping Secondary Containment - None
L00 - Piping Leak Detection - None

FRAZER & JONES COMPANY (Continued) **A100304719**

L00 - Piping Leak Detection - None
I01 - Overfill - Float Vent Valve
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
K02 - Spill Prevention - Transfer Station Containment
D00 - Pipe Type - No Piping
G01 - Tank Secondary Containment - Diking (Aboveground)
G01 - Tank Secondary Containment - Diking (Aboveground)
I04 - Overfill - Product Level Gauge (A/G)
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping

Tank Info:

Tank Number:	001
Tank Id:	217343
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	9/1/1996
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	5/22/2007

Tank Number:	002
Tank Id:	229731
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1990
Capacity Gallons:	1000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	7/24/2009

T103 **FRAZER AND JONES CO.** **HSWDS** **S108146652**
SE **3000 MILTON AVE** **N/A**
> 1 **SOLVAY, NY 13209**
1.360 mi.
7179 ft. **Site 13 of 13 in cluster T**

Relative:
Higher

Actual:
431 ft.

HSWDS:

Facility ID:	Not reported
Region:	7
Facility Status:	None
Owner Type:	Puplic
Owner:	Frazer & Jones Co
Owner Address:	3000 Milton Ave
Owner Phone:	315-468-6251
Operator Type:	Puplic
Operator:	Unknown
Operator:	Unknown
Operator Phone:	Unknown
EPA ID:	NYD002225597
Registry:	D
Registry Site ID:	734014
RCRA Permitted:	Unknown
Site Code:	Industrial Landfill
Owner City State:	Solvay, NY 13209
Operator City State:	Not reported
Quadrange:	Syracuse West
Latitude:	43 03'35"N
Longitude:	76 13'45"W
Acres:	2.00
Operator Date:	Unknown
Close Date:	Unknown
Completed:	Phase I
Active:	Yes
PCB's Disposed:	No
Pesticides Disposed:	No
Metals Disposed:	No
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	No
Semi Volatile Organic Compounds Disposed:	No
Analytical Info Exists for Air:	Not reported
Analytical Info Exists for Ground:	Not reported
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Surface Soil
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Not reported
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	No
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	Yes

FRAZER AND JONES CO. (Continued) **S108146652**

Ambient Air Contamination:	Unknown
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

104
East
> 1
1.360 mi.
7181 ft.

NYS FAIRGROUNDS SLF **RCRA-NonGen** **1000113837**
STATE FAIR BLVD **FINDS** **NYD980782916**
SOLVAY, NY 13209 **MANIFEST**

Relative:
Lower

Actual:
376 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	NYS FAIR GROUNDS SUB
Facility address:	STATE FAIR BLVD SOLVAY, NY 13209
EPA ID:	NYD980782916
Mailing address:	ERIE BLVD W SYRACUSE, NY 13202
Contact:	Not reported
Contact address:	ERIE BLVD W SYRACUSE, NY 13202
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported

NYS FAIRGROUNDS SLF (Continued) **1000113837**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYS FAIR GROUNDS SUB
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: NYS FAIR GROUNDS SUB
Classification: Not a generator, verified

Date form received by agency: 11/20/1984
Facility name: NYS FAIR GROUNDS SUB
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110008015423

NYS FAIRGROUNDS SLF (Continued) **1000113837**

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD980782916
Country:	USA
Mailing Name:	NIAGARA MOHAWK POWER CORPORATION
Mailing Contact:	NIAGARA MOHAWK POWER CORPORATION
Mailing Address:	300 ERIE BLVD WEST
Mailing Address 2:	Not reported
Mailing City:	SYRACUSE
Mailing State:	NY
Mailing Zip:	13202
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-428-2351

Document ID:	NYA3734482
Manifest Status:	Completed copy
Trans1 State ID:	45135GUNY
Trans2 State ID:	Not reported
Generator Ship Date:	860528
Trans1 Recv Date:	860528
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	860528
Part A Recv Date:	860603
Part B Recv Date:	860603
Generator EPA ID:	NYD980782916
Trans1 EPA ID:	NYD980761191
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980647952
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	01000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	089
Year:	86

Document ID:	NYA1606797
Manifest Status:	Completed copy
Trans1 State ID:	(NY)35218
Trans2 State ID:	Not reported
Generator Ship Date:	850520

NYS FAIRGROUNDS SLF (Continued) **1000113837**

Trans1 Recv Date:	850520
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	850520
Part A Recv Date:	850603
Part B Recv Date:	850603
Generator EPA ID:	NYD980782916
Trans1 EPA ID:	NYD980761191
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980647952
Waste Code:	B003 - PETROLEUM OIL WITH 500 PPM OR > PCB
Quantity:	00930
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	091
Year:	85

U105 **NYSDOT BRIDGE BIN 1093479** **RCRA-NonGen** **1001119403**
SW **RTE 5 OVER HINSDALE RD** **FINDS** **NYR000026906**
> 1 **CAMILLUS, NY 13031** **MANIFEST**
1.363 mi.
7198 ft. **Site 1 of 3 in cluster U**

Relative:
Higher

Actual:
466 ft.

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	NYSDOT BRIDGE BIN 1093479
Facility address:	RTE 5 OVER HINSDALE RD CAMILLUS, NY 13031
EPA ID:	NYR000026906
Contact:	Not reported
Contact address:	RTE 5 OVER HINSDALE RD CAMILLUS, NY 13031
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYSDOT
Owner/operator address:	333 E WASHINGTON ST SYRACUSE, NY 13202
Owner/operator country:	US
Owner/operator telephone:	(315) 448-7349
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NYSDOT
Owner/operator address:	333 E WASHINGTON ST SYRACUSE, NY 13202
Owner/operator country:	US
Owner/operator telephone:	(315) 448-7349
Legal status:	State

NYSDOT BRIDGE BIN 1093479 (Continued) **1001119403**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: NYSDOT BRIDGE BIN 1093479
Classification: Not a generator, verified

Date form received by agency: 01/31/1997
Facility name: NYSDOT BRIDGE BIN 1093479
Classification: Not a generator, verified

Date form received by agency: 07/18/1996
Facility name: NYSDOT BRIDGE BIN 1093479
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110008095774

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYR000026906
Country: USA
Mailing Name: NYSDOT
Mailing Contact: ROBERT V TRENDELL

NYSDOT BRIDGE BIN 1093479 (Continued) **1001119403**

Mailing Address:	109 SOUTH WARREN STREET
Mailing Address 2:	Not reported
Mailing City:	SYRACUSE
Mailing State:	NY
Mailing Zip:	13202
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-668-7313

Document ID:	MIA4561906
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	71596ENY
Trans2 State ID:	86044DNY
Generator Ship Date:	961010
Trans1 Recv Date:	961010
Trans2 Recv Date:	961014
TSD Site Recv Date:	961015
Part A Recv Date:	961113
Part B Recv Date:	961105
Generator EPA ID:	NYR000026906
Trans1 EPA ID:	NYD986903904
Trans2 EPA ID:	NYD986903904
TSDF ID:	MID096963194
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00800
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	96

V106 **KINANECO** **RCRA-CESQG** **1004759256**
ESE **2925 MILTON AVE COR CASE ST** **NYR000003673**
> 1 **SYRACUSE, NY 13209**
1.381 mi.
7292 ft. **Site 1 of 4 in cluster V**

Relative:
Higher

Actual:
436 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	KINANECO
Facility address:	2925 MILTON AVE COR CASE ST SYRACUSE, NY 13209
EPA ID:	NYR000003673
Mailing address:	MILTON AVE COR CASE ST SYRACUSE, NY 13209
Contact:	PHIL KINANE
Contact address:	MILTON AVE COR CASE ST SYRACUSE, NY 13209
Contact country:	US
Contact telephone:	(315) 468-6201
Contact email:	Not reported
EPA Region:	02
Land type:	Private
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time;

KINANECO (Continued) **1004759256**

or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	KINANECO
Owner/operator address:	2925 MILTON AVE SYRACUSE, NY 13209
Owner/operator country:	US
Owner/operator telephone:	(315) 468-6201
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	KINANECO
Owner/operator address:	2925 MILTON AVE SYRACUSE, NY 13209
Owner/operator country:	US
Owner/operator telephone:	(315) 468-6201
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:

U.S. importer of hazardous waste:	Unknown
Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Unknown
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	KINANECO

KINANECO (Continued) **1004759256**

Classification: Small Quantity Generator

Date form received by agency: 04/19/1995
Facility name: KINANECO
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 10/19/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

V107 **KINANE CO** **FINDS** **1010181422**
ESE **2925 MILTON AVE** **MANIFEST** **N/A**
> 1 **SYRACUSE, NY 13209**
1.382 mi.
7299 ft. **Site 2 of 4 in cluster V**

Relative: Higher

Actual: 437 ft.

FINDS:

Registry ID: 110028902882

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYR000003673
Country: USA
Mailing Name: KINANE CO
Mailing Contact: PHILIP T KINANE
Mailing Address: 2925 MILTON AE
Mailing Address 2: Not reported
Mailing City: SYRACUSE
Mailing State: NY
Mailing Zip: 13209
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 315-468-6201

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD013277454
Trans2 State ID: Not reported
Generator Ship Date: 2008-03-13
Trans1 Recv Date: 2008-03-13
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-03-13
Part A Recv Date: Not reported

KINANE CO (Continued) **1010181422**

Part B Recv Date:	Not reported
Generator EPA ID:	NYR000003673
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported
Quantity:	110.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	003595779JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	2007-01-25
Trans1 Recv Date:	2007-01-25
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2007-01-25
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000003673
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported
Quantity:	55.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	07
Manifest Tracking Num:	000342414JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

KINANE CO (Continued) **1010181422**

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	1/25/2007
Trans1 Recv Date:	1/25/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	1/25/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000003673
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported
Quantity:	55
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	07
Manifest Tracking Num:	000342414JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	2008-03-13
Trans1 Recv Date:	2008-03-13
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-03-13
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000003673
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported

KINANE CO (Continued) **1010181422**

Quantity:	110.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	003595779JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	2008-03-13
Trans1 Recv Date:	2008-03-13
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2008-03-13
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000003673
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported
Quantity:	110.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	08
Manifest Tracking Num:	003595779JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

KINANE CO (Continued) **1010181422**

Document ID:	NYG4194036
Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	03/30/2006
Trans1 Recv Date:	03/30/2006
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/30/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000003673
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	F001 - UNKNOWN
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	06

V108 **CORRENTE SERVICE STATION** **UST** **U001848518**
ESE **2913 MILTON AVE** **HIST UST** **N/A**
> 1 **SOLVAY, NY 13209** **NY Spills**
1.386 mi. **NY Hist Spills**
7320 ft. **Site 3 of 4 in cluster V**

Relative: Higher

Actual: 438 ft.

UST:

Facility Id:	7-122076
Region:	STATE
DEC Region:	7
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	400135.00154000003
UTM Y:	4768239.0638699997

Affiliation Records:

Site Id:	44572
Affiliation Type:	On-Site Operator
Company Name:	CORRENTE SERVICE STATION
Contact Type:	Not reported
Contact Name:	JAMES CORRENTE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-0410
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

CORRENTE SERVICE STATION (Continued) **U001848518**

Site Id:	44572
Affiliation Type:	Owner
Company Name:	JAMES CORRENTE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2917 MILTON AVE.
Address2:	Not reported
City:	SOLVAY
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 468-3459
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	44572
Affiliation Type:	Emergency Contact
Company Name:	JAMES CORRENTE
Contact Type:	Not reported
Contact Name:	PAULINS CORRENTE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 468-3459
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	44572
Affiliation Type:	Mail Contact
Company Name:	JAMES CORRENTE
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	2917 MILTON AVE.
Address2:	Not reported
City:	SOLVAY
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 468-3459
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None

CORRENTE SERVICE STATION (Continued) **U001848518**

G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
D02 - Pipe Type - Galvanized Steel
I00 - Overfill - None
J02 - Dispenser - Suction
J02 - Dispenser - Suction
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
I00 - Overfill - None
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
A00 - Tank Internal Protection - None
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

Tank Info:

Site ID:	44572
Tank Number:	001
Tank ID:	127846
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1974
Capacity Gallons:	4000
Tightness Test Method:	01
Next Test Date:	Not reported
Date Tank Closed:	11/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	9/1/1989
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	44572
Tank Number:	002
Tank ID:	127847
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1974
Capacity Gallons:	4000
Tightness Test Method:	01
Next Test Date:	Not reported
Date Tank Closed:	11/1/1992

CORRENTE SERVICE STATION (Continued) **U001848518**

Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	9/1/1989
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	44572
Tank Number:	003
Tank ID:	127848
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1972
Capacity Gallons:	5000
Tightness Test Method:	01
Next Test Date:	Not reported
Date Tank Closed:	11/1/1992
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	9/1/1989
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	7-122076
SPDES Number:	Not reported
Emergency Contact:	PAULINS CORRENTE
Emergency Telephone:	(315) 468-3459
Operator:	JAMES CORRENTE
Operator Telephone:	(315) 487-0410
Owner Name:	JAMES CORRENTE
Owner Address:	2917 MILTON AVE.
Owner City,St,Zip:	SOLVAY, NY 13209
Owner Telephone:	(315) 468-3459
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	JAMES CORRENTE
Mailing Address:	2917 MILTON AVE.
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SOLVAY, NY 13209
Mailing Contact:	Not reported
Mailing Telephone:	(315) 468-3459
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	3132
Old PBS Number:	Not reported
Facility Type:	RETAIL GASOLINE SALES
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False

CORRENTE SERVICE STATION (Continued) **U001848518**

Certification Date:	02/21/1992
Expiration Date:	03/10/1997
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	GEDDES
County Code:	31
Town or City:	32
Region:	7

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19741201
Capacity (gals):	4000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	09/01/1989
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	11/01/1992
Test Method:	Petro-Tite
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	19741201
Capacity (gals):	4000
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None

CORRENTE SERVICE STATION (Continued) **U001848518**

Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 09/01/1989
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 11/01/1992
Test Method: Petro-Tite
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 003
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19721201
Capacity (gals): 5000
Product Stored: UNLEADED GASOLINE
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: None
Overfill Prot: Not reported
Dispenser: Suction
Date Tested: 09/01/1989
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 11/01/1992
Test Method: Petro-Tite
Deleted: False
Updated: True
Lat/long: Not reported

NY Spills:
Site ID: 325188
Facility Addr2: Not reported
Facility ID: 9209206
Spill Number: 9209206
Facility Type: ER
SWIS: 3400
Investigator: CFMANNES
Referred To: Not reported
Spill Date: 11/5/1992
Reported to Dept: 11/5/1992
CID: Not reported
Spill Cause: Unknown
Water Affected: Not reported
Spill Source: Gasoline Station
Spill Notifier: DEC
Cleanup Ceased: 10/31/1994
Cleanup Meets Std: False

CORRENTE SERVICE STATION (Continued) **U001848518**

Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	True
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/31/1994
Remediation Phase:	0
Date Entered In Computer:	11/9/1992
Spill Record Last Update:	1/9/1995
Spiller Name:	Not reported
Spiller Company:	JAMES CORRENTE
Spiller Address:	2917 MILTON AVE
Spiller City,St,Zip:	SYRACUSE, NY 13209
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	261958
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" 11/06/92: TANK PULL OLD GAS STATION TANKS WERE IN GOOD SHAPE, EXCAVATED SOIL HAD PETRO-LIKE SMELLS, SOIL STAGED BEHIND BUILDING. 09/28/95: This is additional information about material spilled from the translation of the old spill file: OLD GAS/OVERFILL.
Remarks:	TANKPULLTANKS TESTED TIGHT, SELLING PROPERTY. CONTAMINATION MOST LIKELY DUE TO OVERFILLS OR PREVIOUS TANK REMOVAL/INSTALLATION OLD GAS STATION

Material:

Site ID:	325188
Operable Unit ID:	972861
Operable Unit:	01
Material ID:	406265
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7

CORRENTE SERVICE STATION (Continued) **U001848518**

Spill Number:	9209206
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	11/05/1992 11:30
Reported to Dept Date/Time:	11/05/92 11:30
SWIS:	31
Spiller Name:	JAMES CORRENTE
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Address:	2917 MILTON AVE
Spiller City,St,Zip:	SYRACUSE, NY 13209
Spill Cause:	Unknown
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	05
Spill Notifier:	DEC
PBS Number:	Not reported
Cleanup Ceased:	10/31/94
Cleanup Meets Std:	False
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	True
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/31/94
Corrective Action Plan Submitted:	/ /
Date Region Sent Summary to Central Office:	/ /
Date Spill Entered In Computer Data File:	11/09/92
Date Spill Entered In Computer Data File:	Not reported
Update Date:	01/09/95
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	GASOLINE
Class Type:	GASOLINE
Times Material Entry In File:	21329

CORRENTE SERVICE STATION (Continued) **U001848518**

CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 11/06/92: TANK PULL OLD GAS STATION TANKS WERE IN GOOD SHAPE, EXCAVATED SOIL HAD PETRO-LIKE SMELLS, SOIL STAGED BEHIND BUILDING. 09/28/95: This is additional information about material spilled from the translation of the old spill file: OLD GAS/OVERFILL.
Remark: TANKPULLTANKS TESTED TIGHT, SELLING PROPERTY. CONTAMINATION MOST LIKELY DUE TO OVERFILLS OR PREVIOUS TANK REMOVAL/INSTALLATION OLD GAS STATION

V109 **SOLVAY BIG M** **UST U003178794**
ESE **2909 MILTON AVE** **HIST UST N/A**
> 1 **SOLVAY, NY 13029**
1.388 mi.
7328 ft. **Site 4 of 4 in cluster V**

Relative:
Higher

Actual:
437 ft.

UST:
Facility Id: 7-600521
Region: STATE
DEC Region: 7
Site Status: Active
Program Type: PBS
Expiration Date: 2012/04/18
UTM X: 400141.26325999998
UTM Y: 4768243.9707000004

Affiliation Records:
Site Id: 46959
Affiliation Type: Emergency Contact
Company Name: SCHMITT SALES, INC.
Contact Type: Not reported
Contact Name: TERRY MAHON
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (716) 639-1500
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: JDALSANT
Date Last Modified: 7/6/2010

Site Id: 46959
Affiliation Type: Mail Contact
Company Name: SCHMITT SALES, INC.
Contact Type: OPERATIONS MANAGER
Contact Name: TERRY MAHON
Address1: 2101 ST. RITA'S LANE
Address2: Not reported
City: BUFFALO
State: NY
Zip Code: 14221
Country Code: 001
Phone: (716) 639-1500
Phone Ext: Not reported
Email: TMAHON@SCHMITTSALES.COM

SOLVAY BIG M (Continued) **U003178794**

Fax Number: Not reported
Modified By: jlrogers
Date Last Modified: 5/21/2010

Site Id: 46959
Affiliation Type: Owner
Company Name: SCHMITT SALES, INC.
Contact Type: OPERATIONS MANAGER
Contact Name: TERRY MAHON
Address1: 2101 ST. RITA'S LANE
Address2: Not reported
City: BUFFALO
State: NY
Zip Code: 14221
Country Code: 001
Phone: (716) 639-1500
Phone Ext: Not reported
Email: TMAHON@SCHMITTSALES.COM
Fax Number: Not reported
Modified By: jlrogers
Date Last Modified: 5/21/2010

Site Id: 46959
Affiliation Type: On-Site Operator
Company Name: SOLVAY BIG M
Contact Type: Not reported
Contact Name: TAHA ALASHWAL
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (315) 468-0907
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: KCKemp
Date Last Modified: 3/8/2007

Equipment Records:

A00 - Tank Internal Protection - None
D11 - Pipe Type - Flexible Piping
G04 - Tank Secondary Containment - Double-Walled (Underground)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
J01 - Dispenser - Submersible
L08 - Piping Leak Detection - Tank Top Sump
I01 - Overfill - Float Vent Valve
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
F00 - Pipe External Protection - None
B05 - Tank External Protection - Jacketed
E04 - Piping Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve
G04 - Tank Secondary Containment - Double-Walled (Underground)
D11 - Pipe Type - Flexible Piping

SOLVAY BIG M (Continued) **U003178794**

J01 - Dispenser - Submersible
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
J01 - Dispenser - Submersible
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
D11 - Pipe Type - Flexible Piping
G04 - Tank Secondary Containment - Double-Walled (Underground)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
L08 - Piping Leak Detection - Tank Top Sump
L08 - Piping Leak Detection - Tank Top Sump
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
I01 - Overfill - Float Vent Valve
A00 - Tank Internal Protection - None
B05 - Tank External Protection - Jacketed
E04 - Piping Secondary Containment - Double-Walled (Underground)
E04 - Piping Secondary Containment - Double-Walled (Underground)
K01 - Spill Prevention - Catch Basin
K01 - Spill Prevention - Catch Basin
B05 - Tank External Protection - Jacketed
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None

Tank Info:

Site ID:	46959
Tank Number:	001A
Tank ID:	137963
Tank Status:	In Service
Tank Model:	107
Pipe Model:	Not reported
Install Date:	2/1/1997
Capacity Gallons:	10000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	9/9/2010
Site ID:	46959
Tank Number:	001B
Tank ID:	235891
Tank Status:	In Service
Tank Model:	107
Pipe Model:	Not reported
Install Date:	2/1/1997
Capacity Gallons:	6000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel

SOLVAY BIG M (Continued) **U003178794**

Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	9/9/2010
Site ID:	46959
Tank Number:	002
Tank ID:	137964
Tank Status:	In Service
Tank Model:	107
Pipe Model:	Not reported
Install Date:	2/1/1997
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	KCKemp
Last Modified:	3/8/2007

HIST UST:

PBS Number:	7-600521
SPDES Number:	Not reported
Emergency Contact:	TERRY MAHON
Emergency Telephone:	(716) 639-1500
Operator:	RICHARD NOLAN
Operator Telephone:	(315) 468-5741
Owner Name:	SCHMITT SALES, INC.
Owner Address:	2101 ST. RITA'S LANE
Owner City,St,Zip:	BUFFALO, NY 14221
Owner Telephone:	(716) 639-1500
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	SCHMITT SALES, INC.
Mailing Address:	2101 ST. RITA'S LANE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BUFFALO, NY 14221
Mailing Contact:	PETER C. SCHMITT SR.
Mailing Telephone:	(716) 639-1500
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	3132
Old PBS Number:	Not reported
Facility Type:	RETAIL GASOLINE SALES
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	04/30/1997

SOLVAY BIG M (Continued) **U003178794**

Expiration Date:	04/18/2002
Renew Flag:	False
Renewal Date:	20011217
Total Capacity:	17000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	GEDDES
County Code:	31
Town or City:	32
Region:	7

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19970201
Capacity (gals):	16000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Equivalent technology
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	Fiberglass Liner (FRP)
Pipe External:	Fiberglass
Second Containment:	Vault (w/access)
Leak Detection:	Electronic
Overfill Prot:	Float Vent Valve
Dispenser:	Submersible
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19970201
Capacity (gals):	1000
Product Stored:	KEROSENE
Tank Type:	Equivalent technology
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	Fiberglass Liner (FRP)
Pipe External:	Fiberglass
Second Containment:	Vault (w/access)
Leak Detection:	Electronic

SOLVAY BIG M (Continued) **U003178794**

Overfill Prot:	Float Vent Valve
Dispenser:	Submersible
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

W110 **SYRACUSE EXCUTIVE AIR** **LTANKS** **S104782082**
East **SYRACUSE AIRPORT** **HIST LTANKS** **N/A**
> 1 **SYRACUSE, NY**
1.392 mi.
7351 ft. **Site 1 of 2 in cluster W**

Relative:
Lower

Actual:
375 ft.

LTANKS:

Site ID:	231763
Spill No:	0005777
Spill Date:	8/14/2000
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/5/2002
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	3400
Investigator:	CFMANNES
Referred To:	Not reported
Reported to Dept:	8/14/2000
CID:	257
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	8/14/2000
Spill Record Last Update:	8/5/2002
Spiller Name:	GENE STADELMAN
Spiller Company:	SYRACUSE EXCUTIVE AIR
Spiller Address:	SYRACUSE AIRPORT
Spiller City,St,Zip:	SYRACUSE, NY
Spiller County:	001
Spiller Contact:	GENE STADELMAN
Spiller Phone:	(315) 455-2000
Spiller Extention:	210
DEC Region:	7
DER Facility ID:	277443
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" NO DATA PROVIDED TO DEC
Remarks:	during a tank replacement caller found contaminated soil - unknown if product is jet fuel or oil - tank is at hanger #6

SYRACUSE EXCUTIVE AIR (Continued) **S104782082**

Material:

Site ID:	231763
Operable Unit ID:	826769
Operable Unit:	01
Material ID:	546922
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	0005777
Spill Date:	08/14/2000
Spill Time:	13:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	/ /
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	CM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	08/14/00
Reported to Department Time:	13:13
SWIS:	31
Spiller Contact:	GENE STADELMAN
Spiller Phone:	(315) 455-2000

SYRACUSE EXCUTIVE AIR (Continued) **S104782082**

Spiller Extention: 210
Spiller Name: SYRACUSE EXCUTIVE AIR
Spiller Address: SYRACUSE AIRPORT
Spiller City,St,Zip: SYRACUSE, NY
Spiller Cleanup Date: / /
Facility Contact: GENE STADELMAN
Facility Phone: (315) 455-2000
Facility Extention: 210
Spill Notifier: Other
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 08/14/00
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 11/02/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: during a tank replacement caller found contaminated soil - unknown if product is jet fuel or oil - tank is at hanger 6

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111 **POOJA ENTERPRISES** **UST** **U001848561**
SSE **3385 MILTON AVE** **HIST UST** **N/A**
> 1 **SYRACUSE, NY 13219**
1.402 mi.
7403 ft.

Relative:
Higher

Actual:
439 ft.

UST:
Facility Id: 7-128015
Region: STATE
DEC Region: 7
Site Status: Active
Program Type: PBS

POOJA ENTERPRISES (Continued) **U001848561**

Expiration Date: 2014/08/24
UTM X: 399471.75017000001
UTM Y: 4767622.8816

Affiliation Records:

Site Id: 44652
Affiliation Type: Mail Contact
Company Name: POOJA ENTERPRISES
Contact Type: Not reported
Contact Name: CHANDER P. LAL
Address1: 3385 MILTON AVE.
Address2: Not reported
City: SYRACUSE
State: NY
Zip Code: 13219
Country Code: 001
Phone: 315) 488-7944
Phone Ext: Not reported
Email: POOJASUNOCO@YAHOO.COM
Fax Number: Not reported
Modified By: KCKEMP
Date Last Modified: 6/12/2009

Site Id: 44652
Affiliation Type: On-Site Operator
Company Name: POOJA ENTERPRISES
Contact Type: Not reported
Contact Name: CHANDER P. LAL
Address1: Not reported
Address2: Not reported
City: Not reported
State: NY
Zip Code: Not reported
Country Code: 001
Phone: 315) 488-7944
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: KCKEMP
Date Last Modified: 12/18/2009

Site Id: 44652
Affiliation Type: Emergency Contact
Company Name: CHANDER PAL LAL
Contact Type: Not reported
Contact Name: CHANDER P. LAL
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (315) 468-2415
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: KCKEMP
Date Last Modified: 12/18/2009

POOJA ENTERPRISES (Continued) **U001848561**

Site Id:	44652
Affiliation Type:	Owner
Company Name:	CHANDER PAL LAL
Contact Type:	OWNER
Contact Name:	CHANDER P. LAL
Address1:	97 MAPLE RD.
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13219
Country Code:	001
Phone:	(315) 468-2415
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	12/18/2009

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
G00 - Tank Secondary Containment - None
A01 - Tank Internal Protection - Epoxy Liner
H99 - Tank Leak Detection - Other
H05 - Tank Leak Detection - In-Tank System (ATG)
H99 - Tank Leak Detection - Other
J01 - Dispenser - Submersible
A00 - Tank Internal Protection - None
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
G04 - Tank Secondary Containment - Double-Walled (Underground)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
J01 - Dispenser - Submersible
D02 - Pipe Type - Galvanized Steel
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
B00 - Tank External Protection - None
E04 - Piping Secondary Containment - Double-Walled (Underground)
J01 - Dispenser - Submersible
I03 - Overfill - Automatic Shut-Off
E04 - Piping Secondary Containment - Double-Walled (Underground)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
A01 - Tank Internal Protection - Epoxy Liner
J01 - Dispenser - Submersible
D02 - Pipe Type - Galvanized Steel
J01 - Dispenser - Submersible
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
I00 - Overfill - None
H05 - Tank Leak Detection - In-Tank System (ATG)
G00 - Tank Secondary Containment - None
I03 - Overfill - Automatic Shut-Off
I00 - Overfill - None

POOJA ENTERPRISES (Continued) **U001848561**

I03 - Overfill - Automatic Shut-Off
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
C00 - Pipe Location - No Piping
K01 - Spill Prevention - Catch Basin
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
D11 - Pipe Type - Flexible Piping
D11 - Pipe Type - Flexible Piping
G00 - Tank Secondary Containment - None
F05 - Pipe External Protection - Jacketed
B00 - Tank External Protection - None
B00 - Tank External Protection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
F05 - Pipe External Protection - Jacketed
G04 - Tank Secondary Containment - Double-Walled (Underground)
G04 - Tank Secondary Containment - Double-Walled (Underground)
F05 - Pipe External Protection - Jacketed
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
B00 - Tank External Protection - None
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
D11 - Pipe Type - Flexible Piping
E04 - Piping Secondary Containment - Double-Walled (Underground)
D02 - Pipe Type - Galvanized Steel
J01 - Dispenser - Submersible
J01 - Dispenser - Submersible
A01 - Tank Internal Protection - Epoxy Liner
H99 - Tank Leak Detection - Other
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C00 - Pipe Location - No Piping

Tank Info:

Site ID:	44652
Tank Number:	001
Tank ID:	128163
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	10/1/1969
Capacity Gallons:	8000
Tightness Test Method:	01

POOJA ENTERPRISES (Continued) **U001848561**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1986
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	44652
Tank Number:	002
Tank ID:	128164
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	10/1/1969
Capacity Gallons:	8000
Tightness Test Method:	01
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1986
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	44652
Tank Number:	003
Tank ID:	128165
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	6/1/1974
Capacity Gallons:	8000
Tightness Test Method:	01
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	7/1/1986
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	44652
Tank Number:	004-M1
Tank ID:	128166
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	E
Install Date:	12/1/1989
Capacity Gallons:	10000
Tightness Test Method:	21

POOJA ENTERPRISES (Continued) **U001848561**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	5/13/2009
Register:	True
Modified By:	KCKEMP
Last Modified:	12/18/2009
Site ID:	44652
Tank Number:	005-S1
Tank ID:	128167
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	E
Install Date:	12/1/1989
Capacity Gallons:	10000
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	5/13/2009
Register:	True
Modified By:	KCKEMP
Last Modified:	12/18/2009
Site ID:	44652
Tank Number:	006
Tank ID:	128168
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	E
Install Date:	12/1/1989
Capacity Gallons:	10000
Tightness Test Method:	21
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Equivalent technology
Date Test:	5/13/2009
Register:	True
Modified By:	KCKEMP
Last Modified:	12/18/2009
Site ID:	44652
Tank Number:	007
Tank ID:	135175
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1962
Capacity Gallons:	550
Tightness Test Method:	20

POOJA ENTERPRISES (Continued) **U001848561**

Next Test Date:	Not reported
Date Tank Closed:	4/1/1995
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	12/1/1994
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	44652
Tank Number:	008
Tank ID:	135176
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	1/1/1962
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	7-128015
SPDES Number:	Not reported
Emergency Contact:	LARRY BALLAY
Emergency Telephone:	(800) 786-9494
Operator:	CHANDER P. LAL
Operator Telephone:	(315) 488-7944
Owner Name:	ATLANTIC REFINING & MARKETING CORP.
Owner Address:	1801 MARKET ST.
Owner City,St,Zip:	PHILADELPHIA, PA 19103
Owner Telephone:	(215) 246-8513
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	ATLANTIC REFINING & MARKETING CORP.
Mailing Address:	1801 MARKET ST.
Mailing Address 2:	20/10PC
Mailing City,St,Zip:	PHILADELPHIA, PA 19103
Mailing Contact:	UST COORDINATOR
Mailing Telephone:	(215) 246-8513
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	3120
Old PBS Number:	Not reported
Facility Type:	RETAIL GASOLINE SALES
Inspected Date:	Not reported
Inspector:	Not reported

POOJA ENTERPRISES (Continued) **U001848561**

Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	11/19/1998
Expiration Date:	03/24/2002
Renew Flag:	False
Renewal Date:	20011113
Total Capacity:	30000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	CAMILLUS
County Code:	31
Town or City:	20
Region:	7

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19691001
Capacity (gals):	8000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Product Level Gauge
Dispenser:	Submersible
Date Tested:	07/01/1986
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Petro-Tite
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19691001
Capacity (gals):	8000
Product Stored:	LEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL

POOJA ENTERPRISES (Continued) **U001848561**

Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Product Level Gauge
Dispenser:	Submersible
Date Tested:	07/01/1986
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Petro-Tite
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19740601
Capacity (gals):	8000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Epoxy Liner
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	Other
Overfill Prot:	Product Level Gauge
Dispenser:	Submersible
Date Tested:	07/01/1986
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Petro-Tite
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19891201
Capacity (gals):	10000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Fiberglass reinforced plastic [FRP]
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STAINLESS STEEL ALLOY
Pipe Internal:	Fiberglass Liner (FRP)
Pipe External:	Jacketed
Second Containment:	Vault (w/access)

POOJA ENTERPRISES (Continued) **U001848561**

Leak Detection: 14
Overfill Prot: Automatic Shut-Off, Catch Basin
Dispenser: Submersible
Date Tested: 09/01/1993
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Unknown
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 005
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19891201
Capacity (gals): 10000
Product Stored: UNLEADED GASOLINE
Tank Type: Fiberglass reinforced plastic [FRP]
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STAINLESS STEEL ALLOY
Pipe Internal: Fiberglass Liner (FRP)
Pipe External: Jacketed
Second Containment: Vault (w/access)
Leak Detection: 14
Overfill Prot: Automatic Shut-Off, Catch Basin
Dispenser: Submersible
Date Tested: 09/01/1993
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Unknown
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 006
Tank Location: UNDERGROUND
Tank Status: In Service
Install Date: 19891201
Capacity (gals): 10000
Product Stored: UNLEADED GASOLINE
Tank Type: Fiberglass reinforced plastic [FRP]
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STAINLESS STEEL ALLOY
Pipe Internal: Fiberglass Liner (FRP)
Pipe External: Jacketed
Second Containment: Vault (w/access)
Leak Detection: 14
Overfill Prot: Automatic Shut-Off, Catch Basin
Dispenser: Submersible

POOJA ENTERPRISES (Continued) **U001848561**

Date Tested: 09/01/1993
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Unknown
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 007
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19620101
Capacity (gals): 550
Product Stored: NOS 1,2, OR 4 FUEL OIL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: In-tank System
Overfill Prot: Not reported
Dispenser: Submersible
Date Tested: 12/01/1994
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: 04/01/1995
Test Method: USTest 2000
Deleted: False
Updated: True
Lat/long: Not reported

Tank Id: 008
Tank Location: UNDERGROUND
Tank Status: Closed-Removed
Install Date: 19620101
Capacity (gals): 550
Product Stored: UNKNOWN
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: GALVANIZED STEEL
Pipe Internal: Not reported
Pipe External: Not reported
Second Containment: None
Leak Detection: In-tank System
Overfill Prot: Not reported
Dispenser: Submersible
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing

POOJA ENTERPRISES (Continued) **U001848561**

Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
Lat/long: Not reported

U112 **NORTHSIDE COLLISION** **RCRA-SQG** **1012187093**
SW **509 HINSDALE RD** **NYR000169573**
> 1 **CAMILLUS, NY 13031**
1.415 mi.
7470 ft. **Site 2 of 3 in cluster U**

Relative:
Higher

Actual:
466 ft.

RCRA-SQG:
Date form received by agency: 10/28/2009
Facility name: NORTHSIDE COLLISION
Facility address: 509 HINSDALE RD
CAMILLUS, NY 13031
EPA ID: NYR000169573
Mailing address: HINSDALE RD
CAMILLUS, NY 13031
Contact: BRYAN REYNOLDS
Contact address: HINSDALE RD
CAMILLUS, NY 13031
Contact country: US
Contact telephone: (315) 484-4448
Contact email: BRYANR@NORTHSIDECOLLISION.COM
EPA Region: 02
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: SCOTT JONES
Owner/operator address: MANLIUS CENTER RD
EAST SYRACUSE, NY 13057
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/07/2009
Owner/Op end date: Not reported

Owner/operator name: NORTHSIDE COLLISION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/07/2009
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

NORTHSIDE COLLISION (Continued) **1012187093**

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Consumer Electronics
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Oil-Based Finishes
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Any Universal Waste
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: Not reported

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003

NORTHSIDE COLLISION (Continued) **1012187093**

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

U113 **NORTHSIDE COLLISION** **MANIFEST S110138184**
SW **509 HINSDALE RD** **N/A**
> 1 **CAMILLUS, NY 13031**
1.415 mi.
7470 ft. **Site 3 of 3 in cluster U**

Relative:
Higher

Actual:
466 ft.

NY MANIFEST:

EPA ID:	NYR000169573
Country:	USA
Mailing Name:	NORTHSIDE COLLISION
Mailing Contact:	NORTHSIDE COLLISION
Mailing Address:	509 HINSDALE RD
Mailing Address 2:	Not reported
Mailing City:	CAMILLUS
Mailing State:	NY
Mailing Zip:	13031
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-484-4448
Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	2010-04-15
Trans1 Recv Date:	2010-04-15
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-04-15
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000169573
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported
Quantity:	200.0

NORTHSIDE COLLISION (Continued) **S110138184**

Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006644870JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	2010-08-25
Trans1 Recv Date:	2010-08-25
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-08-25
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000169573
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported
Quantity:	400.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006643337JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported

NORTHSIDE COLLISION (Continued) **S110138184**

Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	2010-05-20
Trans1 Recv Date:	2010-05-20
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-05-20
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000169573
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported
Quantity:	125.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006644988JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	2010-01-14
Trans1 Recv Date:	2010-01-14
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2010-01-14
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000169573
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported
Quantity:	80.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2010

NORTHSIDE COLLISION (Continued) **S110138184**

Manifest Tracking Num:	006644580JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	2009-12-30
Trans1 Recv Date:	2009-12-30
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	2009-12-30
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000169573
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported
Quantity:	150.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	09
Manifest Tracking Num:	006644532JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD013277454
Trans2 State ID:	Not reported
Generator Ship Date:	2010-01-14
Trans1 Recv Date:	2010-01-14
Trans2 Recv Date:	Not reported

NORTHSIDE COLLISION (Continued) **S110138184**

TSD Site Recv Date:	2010-01-14
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000169573
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD013277454
Waste Code:	Not reported
Quantity:	80.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	10
Manifest Tracking Num:	006644580JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

114
SW
> 1
1.437 mi.
7586 ft.

FASTRAC MARKET #287 **UST U003800508**
507 HINSDALE RD **HIST UST N/A**
CAMILLUS, NY 13031

Relative:
Higher

Actual:
466 ft.

UST:

Facility Id:	7-600811
Region:	STATE
DEC Region:	7
Site Status:	Active
Program Type:	PBS
Expiration Date:	2014/01/16
UTM X:	396893.13686000003
UTM Y:	4767835.4702000003

Affiliation Records:

Site Id:	47247
Affiliation Type:	Emergency Contact
Company Name:	FASTRAC MARKETS, LLC
Contact Type:	Not reported
Contact Name:	JEFF SZKOLNIK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(315) 552-6800
Phone Ext:	Not reported

FASTRAC MARKET #287 (Continued) **U003800508**

Email:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	7/6/2010

Site Id:	47247
Affiliation Type:	Owner
Company Name:	FASTRAC MARKETS, LLC
Contact Type:	PRESIDENT
Contact Name:	TOM WADDLE
Address1:	6500 NEW VENTURE GEAR DR - SUITE 100
Address2:	Not reported
City:	EAST SYRACUSE
State:	NY
Zip Code:	13057
Country Code:	001
Phone:	(315) 552-6800
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	12/15/2008

Site Id:	47247
Affiliation Type:	Mail Contact
Company Name:	FASTRAC MARKETS, LLC
Contact Type:	Not reported
Contact Name:	JEFF SZKOLNIK
Address1:	6500 NEW VENTURE GEAR DR
Address2:	SUITE 100
City:	EAST SYRACUSE
State:	NY
Zip Code:	13057
Country Code:	001
Phone:	(315) 552-6800
Phone Ext:	Not reported
Email:	JEFFS@FASTRACMARKETS.COM
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	12/15/2008

Site Id:	47247
Affiliation Type:	On-Site Operator
Company Name:	FASTRAC MARKET #287
Contact Type:	Not reported
Contact Name:	FASTRAC MARKETS LLC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 488-4369
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP

FASTRAC MARKET #287 (Continued) **U003800508**

Date Last Modified: 12/15/2008

Equipment Records:

I00 - Overfill - None
I00 - Overfill - None
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J00 - Dispenser - None
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
F00 - Pipe External Protection - None
I00 - Overfill - None
B04 - Tank External Protection - Fiberglass
J01 - Dispenser - Submersible
L08 - Piping Leak Detection - Tank Top Sump
I01 - Overfill - Float Vent Valve
A00 - Tank Internal Protection - None
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
E04 - Piping Secondary Containment - Double-Walled (Underground)
J00 - Dispenser - None
F05 - Pipe External Protection - Jacketed
G00 - Tank Secondary Containment - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
D11 - Pipe Type - Flexible Piping
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
C02 - Pipe Location - Underground/On-ground
H00 - Tank Leak Detection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J01 - Dispenser - Submersible
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
B00 - Tank External Protection - None
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
I02 - Overfill - High Level Alarm
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
C02 - Pipe Location - Underground/On-ground
I00 - Overfill - None
I01 - Overfill - Float Vent Valve
L08 - Piping Leak Detection - Tank Top Sump
F00 - Pipe External Protection - None
F05 - Pipe External Protection - Jacketed
J00 - Dispenser - None

FASTRAC MARKET #287 (Continued) **U003800508**

L08 - Piping Leak Detection - Tank Top Sump
J00 - Dispenser - None
B04 - Tank External Protection - Fiberglass
B00 - Tank External Protection - None
D11 - Pipe Type - Flexible Piping
I00 - Overfill - None
J00 - Dispenser - None
F05 - Pipe External Protection - Jacketed
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
I00 - Overfill - None
B00 - Tank External Protection - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
I01 - Overfill - Float Vent Valve
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
B04 - Tank External Protection - Fiberglass
D01 - Pipe Type - Steel/Carbon Steel/Iron
D11 - Pipe Type - Flexible Piping
K01 - Spill Prevention - Catch Basin
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
F00 - Pipe External Protection - None
K01 - Spill Prevention - Catch Basin
C02 - Pipe Location - Underground/On-ground
E04 - Piping Secondary Containment - Double-Walled (Underground)
E04 - Piping Secondary Containment - Double-Walled (Underground)
J00 - Dispenser - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
C02 - Pipe Location - Underground/On-ground
C02 - Pipe Location - Underground/On-ground
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
F00 - Pipe External Protection - None
J00 - Dispenser - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
F00 - Pipe External Protection - None

Tank Info:
Site ID: 47247

Tank Number: 1
Tank ID: 175566
Tank Status: In Service

FASTRAC MARKET #287 (Continued) **U003800508**

Tank Model:	106
Pipe Model:	E
Install Date:	12/1/2003
Capacity Gallons:	20000
Tightness Test Method:	00
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Fiberglass coated steel
Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	12/15/2008
Site ID:	47247
Tank Number:	1-A
Tank ID:	175567
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	10/29/2001
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	47247
Tank Number:	2
Tank ID:	139808
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	10/29/2001
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	47247
Tank Number:	2A
Tank ID:	140650
Tank Status:	In Service

FASTRAC MARKET #287 (Continued) **U003800508**

Tank Model:	106
Pipe Model:	E
Install Date:	12/1/2003
Capacity Gallons:	12000
Tightness Test Method:	00
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Fiberglass coated steel
Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	12/15/2008
Site ID:	47247
Tank Number:	2B
Tank ID:	140651
Tank Status:	In Service
Tank Model:	106
Pipe Model:	E
Install Date:	12/1/2003
Capacity Gallons:	8000
Tightness Test Method:	00
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Fiberglass coated steel
Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	12/15/2008
Site ID:	47247
Tank Number:	3
Tank ID:	139809
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	10/29/2001
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	47247
Tank Number:	4
Tank ID:	139810
Tank Status:	Closed - Removed

FASTRAC MARKET #287 (Continued) **U003800508**

Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	10/29/2001
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	47247
Tank Number:	5
Tank ID:	139811
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	10/29/2001
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	47247
Tank Number:	6
Tank ID:	139812
Tank Status:	Closed - Removed
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	10/29/2001
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	47247
Tank Number:	7
Tank ID:	139813
Tank Status:	Closed - Removed

FASTRAC MARKET #287 (Continued) **U003800508**

Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	10/29/2001
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	7-600811
SPDES Number:	Not reported
Emergency Contact:	LAWRENCE MCGRAW
Emergency Telephone:	(315) 487-8861
Operator:	LAWRENCE MCGRAW
Operator Telephone:	(315) 487-8861
Owner Name:	LAWRENCE MCGRAW
Owner Address:	P.O. BOX 151
Owner City,St,Zip:	CAMILLUS, NY 13031
Owner Telephone:	(315) 487-8861
Owner Type:	Private Resident
Owner Subtype:	Not reported
Mailing Name:	LAWRENCE MCGRAW
Mailing Address:	P.O. BOX 151
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CAMILLUS, NY 13031
Mailing Contact:	Not reported
Mailing Telephone:	(315) 487-8861
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	3120
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	07/18/2001
Expiration Date:	07/17/2006
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	CAMILLUS

FASTRAC MARKET #287 (Continued) **U003800508**

County Code:	31
Town or City:	20
Region:	7
Tank Id:	1
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	4000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	10/29/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	2
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	4000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	10/29/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

FASTRAC MARKET #287 (Continued) **U003800508**

Tank Id:	3
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	4000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	10/29/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	4
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	4000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	10/29/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	5
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed

FASTRAC MARKET #287 (Continued) **U003800508**

Install Date:	Not reported
Capacity (gals):	4000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	10/29/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	6
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	1000
Product Stored:	EMPTY
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	10/29/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	7
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	1000
Product Stored:	EMPTY

FASTRAC MARKET #287 (Continued) **U003800508**

Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	10/29/2001
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

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115 **ATLANTIC STA. RT. 173** **LTANKS** **1000458186**
SSE **RTE. 173 & MILTON AVE.** **HIST LTANKS** **N/A**
> 1 **CAMILLUS, NY**
1.455 mi.
7683 ft.

Relative:
Higher

Actual:
437 ft.

LTANKS:

Site ID:	265699
Spill No:	8908599
Spill Date:	11/30/1989
Spill Cause:	Tank Failure
Spill Source:	Gasoline Station
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/14/1990
Facility Addr2:	Not reported
Cleanup Ceased:	11/14/1990
Cleanup Meets Standard:	True
SWIS:	3420
Investigator:	CAPONE
Referred To:	Not reported
Reported to Dept:	11/30/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	DEC
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	12/6/1989
Spill Record Last Update:	3/25/1991
Spiller Name:	Not reported
Spiller Company:	ATLANTIC REFIN. & MKT.
Spiller Address:	550 SOLAR ST.
Spiller City,St,Zip:	SYRACUSE, NY 13204
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported

ATLANTIC STA. RT. 173 (Continued) **1000458186**

Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	216492
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "HC" 11/30/89: LETTER SENT TO INITIATE PHASE I HYDRO. STUDY. 01/10/90: MET W/ ATLANTIC/SUN CONSULTANT LARRY MARTIN OF PEI. THEY HAVE NOT BEEN NOTIFIED OF THIS SITE YET. 07/23/90: MEETING W/ CARL BORKLAND OF SUN. HE HAD NOT BEEN FORWARDED A COPY OF THE 11/30/89 LETTER SENT TO ATLANTIC. PROVIDED HIM WITH ANOTHER COPY. 08/14/90: HYDRO REPORT RECEIVED. NO CONTAMINATION NOTED DURING DRILLING. GW ANALYSIS FOR BTEX AND MTBE ALL ND. 08/14/90: MARCOR CONTRACTED BY SUN TO DO THE HYDRO INVESTIGATION FOR THIS SITE.
Remarks:	GROUNDWATER CONTAMINATION OBSERVED DURING TANK REMOVAL.

Material:

Site ID:	265699
Operable Unit ID:	935931
Operable Unit:	01
Material ID:	445335
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	8908599
Spill Date:	11/30/1989
Spill Time:	13:00
Spill Cause:	Tank Failure
Resource Affectd:	Groundwater
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	11/14/90
Cleanup Ceased:	11/14/90
Cleanup Meets Standard:	True

ATLANTIC STA. RT. 173 (Continued) **1000458186**

Investigator:	HC
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	11/30/89
Reported to Department Time:	13:00
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	ATLANTIC REFIN. & MKT.
Spiller Address:	550 SOLAR ST.
Spiller City,St,Zip:	SYRACUSE, NY 13204
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	(315) 424-8893
Facility Extention:	Not reported
Spill Notifier:	DEC
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	12/06/89
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	03/25/91
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	GASOLINE
Class Type:	GASOLINE
Times Material Entry In File:	21329
CAS Number:	Not reported
Last Date:	19940929
DEC Remarks:	11/30/89: LETTER SENT TO INITIATE PHASE I HYDRO. STUDY. 01/10/90: MET W/

ATLANTIC STA. RT. 173 (Continued) **1000458186**

ATLANTIC/SUN CONSULTANT LARRY MARTIN OF PEI. THEY HAVE NOT BEEN NOTIFIED OF THIS SITE YET. 07/23/90: MEETING W/ CARL BORKLAND OF SUN. HE HAD NOT BEEN FORWARDED A COPY OF THE11/30/89 LETTER SENT TO ATLANTIC. PROVIDED HIM WITH ANOTHER COPY. 08/14/90: HYDRO REPORT RECEIVED. NO CONTAMINATION NOTED DURING DRILLING. GW ANALYSIS FOR BTEX AND MTBE ALL ND. 08/14/90: MARCOR CONTRACTED BY SUN TO DO THE HYDRO INVESTIGATION FOR THIS SITE.

Spill Cause: GROUNDWATER CONTAMINATION OBSERVED DURING TANK REMOVAL.

W116 **NEW YORK STATE FAIR DIV** **UST** **U003077693**
East **DEPT OF AGRICULTURE & MARKETS** **HIST UST** **N/A**
> 1 **SYRACUSE, NY 13209** **AST**
1.460 mi. **HIST AST**
7706 ft. **Site 2 of 2 in cluster W**

Relative:
Lower

Actual:
376 ft.

UST:

Facility Id:	7-007927
Region:	STATE
DEC Region:	7
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	Not reported
UTM Y:	Not reported

Affiliation Records:

Site Id:	43934
Affiliation Type:	Emergency Contact
Company Name:	NYS DEPT AG & MKT
Contact Type:	Not reported
Contact Name:	PAUL ALTENBERG MOTOR EQUIP MEC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 451-1725
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	43934
Affiliation Type:	Mail Contact
Company Name:	NYS DEPT AG & MKT
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	NEW YORK STATE FAIR DIVISION
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-7711
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported

NEW YORK STATE FAIR DIV (Continued) **U003077693**

Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	43934
Affiliation Type:	On-Site Operator
Company Name:	NEW YORK STATE FAIR DIV
Contact Type:	Not reported
Contact Name:	NEW YORK STATE FAIR DIV
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-7711
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	43934
Affiliation Type:	Owner
Company Name:	NYS DEPT AG & MKT
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	NEW YORK STATE FAIR DIVISION
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-7711
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
I00 - Overfill - None
D00 - Pipe Type - No Piping
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping

NEW YORK STATE FAIR DIV (Continued) **U003077693**

F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping

Tank Info:

Site ID:	43934
Tank Number:	001
Tank ID:	133954
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1968
Capacity Gallons:	5000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	43934
Tank Number:	002
Tank ID:	133955
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	550
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

HIST UST:

PBS Number:	7-007927
SPDES Number:	Not reported
Emergency Contact:	PAUL ALTENBERG MOTOR EQUIP MEC
Emergency Telephone:	(315) 451-1725
Operator:	NEW YORK STATE FAIR DIV
Operator Telephone:	(315) 487-7711

NEW YORK STATE FAIR DIV (Continued) **U003077693**

Owner Name:	NYS DEPT AG & MKT
Owner Address:	NEW YORK STATE FAIR DIVISION
Owner City,St,Zip:	SYRACUSE, NY 13209
Owner Telephone:	(315) 487-7711
Owner Type:	State Government
Owner Subtype:	NYS Department of Agriculture and Marketing
Mailing Name:	NYS DEPT AG & MKT
Mailing Address:	NEW YORK STATE FAIR DIVISION
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYRACUSE, NY 13209
Mailing Contact:	Not reported
Mailing Telephone:	(315) 487-7711
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	3115
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	09/02/1986
Expiration Date:	09/02/1991
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	SYRACUSE (C)
County Code:	31
Town or City:	15
Region:	7
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19681201
Capacity (gals):	5000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction

NEW YORK STATE FAIR DIV (Continued) **U003077693**

Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	7
Site Status:	Unregulated
Facility Id:	7-007927
Program Type:	PBS
UTM X:	Not reported
UTM Y:	Not reported
Expiration Date:	N/A

Affiliation Records:

Site Id:	43934
Affiliation Type:	Emergency Contact
Company Name:	NYS DEPT AG & MKT
Contact Type:	Not reported
Contact Name:	PAUL ALTENBERG MOTOR EQUIP MEC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported

NEW YORK STATE FAIR DIV (Continued) **U003077693**

Country Code:	001
Phone:	(315) 451-1725
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	43934
Affiliation Type:	Mail Contact
Company Name:	NYS DEPT AG & MKT
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	NEW YORK STATE FAIR DIVISION
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-7711
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	43934
Affiliation Type:	On-Site Operator
Company Name:	NEW YORK STATE FAIR DIV
Contact Type:	Not reported
Contact Name:	NEW YORK STATE FAIR DIV
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-7711
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	43934
Affiliation Type:	Owner
Company Name:	NYS DEPT AG & MKT
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	NEW YORK STATE FAIR DIVISION
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-7711
Phone Ext:	Not reported

NEW YORK STATE FAIR DIV (Continued) **U003077693**

Email: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Equipment Records:

G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
H00 - Tank Leak Detection - None
D00 - Pipe Type - No Piping
J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
I00 - Overfill - None
D00 - Pipe Type - No Piping
I00 - Overfill - None
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping

Tank Info:

Tank Number: 003
Tank Id: 133956
Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed Prior to Micro Conversion, 03/91
Tank Model: Not reported
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

HIST AST:
PBS Number: 7-007927
SWIS Code: 3115
Operator: NEW YORK STATE FAIR DIV

NEW YORK STATE FAIR DIV (Continued) **U003077693**

Facility Phone:	(315) 487-7711
Facility Addr2:	Not reported
Facility Type:	Not reported
Emergency:	PAUL ALTENBERG MOTOR EQUIP MEC
Emergency Tel:	(315) 451-1725
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	NYS DEPT AG & MKT
Owner Address:	NEW YORK STATE FAIR DIVISION
Owner City,St,Zip:	SYRACUSE, NY 13209
Federal ID:	Not reported
Owner Tel:	(315) 487-7711
Owner Type:	State Government
Owner Subtype:	15
Mailing Contact:	Not reported
Mailing Name:	NYS DEPT AG & MKT
Mailing Address:	NEW YORK STATE FAIR DIVISION
Mailing Address 2:	Not reported
Mailing City,St,Zip:	SYRACUSE, NY 13209
Mailing Telephone:	(315) 487-7711
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Certification Flag:	False
Certification Date:	09/02/1986
Expiration:	09/02/1991
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	SYRACUSE (C)
County Code:	31
Town or City Code:	15
Region:	7

Tank ID:	003
Tank Location:	ABOVEGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	Not reported
Capacity (Gal):	275
Product Stored:	KEROSENE
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	None
Leak Detection:	0

NEW YORK STATE FAIR DIV (Continued) **U003077693**

Overfill Protection:	Not reported
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
SPDES Number:	Not reported
Lat/Long:	Not reported

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117 **CLARKS PETROLEUM SERVICE** **LTANKS** **S101102559**
ENE **690W NEAR FAIRGRD** **HIST LTANKS** **N/A**
> 1 **GEDDES, NY**
1.488 mi.
7854 ft.

Relative:
Lower

Actual:
382 ft.

LTANKS:

Site ID:	263207
Spill No:	9402376
Spill Date:	4/20/1994
Spill Cause:	Tank Failure
Spill Source:	Tank Truck
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	5/24/1994
Facility Addr2:	Not reported
Cleanup Ceased:	4/20/1994
Cleanup Meets Standard:	True
SWIS:	3432
Investigator:	HDWARNER
Referred To:	Not reported
Reported to Dept:	4/20/1994
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	4/20/1994
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	CLARKS PETROLEUM
Spiller Address:	OXBOW RD
Spiller City,St,Zip:	CANASTOTA, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	214571
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "HW" 05/24/94: NO FURTHER ACTION NECCESARY.
Remarks:	SADDLETANK ON TRUCK RUPTURED BY DEBRIS ON RD. ABSORBANTS APPLIED ON EDGE OF RD. TRUCK WILL NOT BE REMOVED UNTIL LEAK IS FIXED.

CLARKS PETROLEUM SERVICE (Continued) **S101102559**

Material:

Site ID:	263207
Operable Unit ID:	996163
Operable Unit:	01
Material ID:	382570
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	5
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	9402376
Spill Date:	04/20/1994
Spill Time:	11:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	05/24/94
Cleanup Ceased:	04/20/94
Cleanup Meets Standard:	True
Investigator:	HW
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	04/20/94
Reported to Department Time:	11:15
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported

CLARKS PETROLEUM SERVICE (Continued) **S101102559**

Spiller Extention: Not reported
Spiller Name: CLARKS PETROLEUM
Spiller Address: OXBOW RD
Spiller City,St,Zip: CANASTOTA
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: Local Agency
PBS Number: Not reported
Last Inspection: 04/20/94
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 05/24/94
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 20
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 5
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 05/24/94: NO FURTHER ACTION NECCESARY.
Spill Cause: SADDLETANK ON TRUCK RUPTURED BY DEBRIS ON RD. ABSORBANTS APPLIED ON EDGE OF RD. TRUCK WILL NOT BE REMOVED UNTIL LEAK IS FIXED.

X118 **T.E.K. DRY CLEANERS** **CERC-NFRAP** **1000107362**
NNE **852 STATE FAIR BLVD** **RCRA-NonGen** **NYD981077878**
> 1 **LAKELAND, NY 13209** **FINDS**
1.500 mi. **MANIFEST**
7921 ft. **Site 1 of 2 in cluster X**

Relative:
Higher

Actual:
477 ft.

CERC-NFRAP:
Site ID: 0202820
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

T.E.K. DRY CLEANERS (Continued) **1000107362**

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: T.E.K. DRY CLEANERS
Alias Address: Not reported
ONONDAGA, NY

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 04/19/1988
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: 12/01/1989
Date Completed: 03/26/1990
Priority Level: NFRAP: No further Remedial Action planned

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 03/26/1990
Priority Level: Not reported

RCRA-NonGen:
Date form received by agency: 01/01/2007
Facility name: TEK CLEANERS
Facility address: 852 STATE FAIR BLVD
SYRACUSE, NY 132091316
EPA ID: NYD981077878
Mailing address: STATE FAIR BLVD
SYRACUSE, NY 13209
Contact: Not reported
Contact address: STATE FAIR BLVD
SYRACUSE, NY 13209
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: Not reported
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US

T.E.K. DRY CLEANERS (Continued) **1000107362**

Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: TEK CLEANERS
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: TEK CLEANERS
Classification: Not a generator, verified

Date form received by agency: 04/25/1985
Facility name: TEK CLEANERS
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: SR - 372.2(C)(2)
Area of violation: Generators - General
Date violation determined: 08/13/1990
Date achieved compliance: 08/13/1990
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/21/1989

T.E.K. DRY CLEANERS (Continued) **1000107362**

Date achieved compliance: 09/21/1989
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/13/1990
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 08/13/1990
Evaluation lead agency: State

Evaluation date: 09/21/1989
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 09/21/1989
Evaluation lead agency: State

FINDS:

Registry ID: 110004394851

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD981077878
Country: USA
Mailing Name: TEK CLEANERS
Mailing Contact: TEK CLEANERS
Mailing Address: 852 STATE FAIR BLVD
Mailing Address 2: Not reported
Mailing City: SYRACUSE
Mailing State: NY
Mailing Zip: 13209
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 315-487-7319

Document ID: NYA3831930
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: IL009
Trans2 State ID: Not reported
Generator Ship Date: 861112

T.E.K. DRY CLEANERS (Continued) **1000107362**

Trans1 Recv Date:	861112
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861120
Part A Recv Date:	870105
Part B Recv Date:	861124
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00840
Units:	P - Pounds
Number of Containers:	007
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	86

Document ID:	NYA6836602
Manifest Status:	Completed copy
Trans1 State ID:	NYCR7085
Trans2 State ID:	Not reported
Generator Ship Date:	871026
Trans1 Recv Date:	871026
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	871026
Part A Recv Date:	871120
Part B Recv Date:	871030
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00675
Units:	P - Pounds
Number of Containers:	005
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	87

Document ID:	NYA5642289
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	870623
Trans1 Recv Date:	870623
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870623
Part A Recv Date:	870811
Part B Recv Date:	870630
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581

T.E.K. DRY CLEANERS (Continued) **1000107362**

Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00204
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00204
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	87

Document ID:	NYA6625912
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	OH9B3357
Trans2 State ID:	Not reported
Generator Ship Date:	870402
Trans1 Recv Date:	870402
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870402
Part A Recv Date:	870512
Part B Recv Date:	870409
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	87

Document ID:	NYC2059615
Manifest Status:	Completed copy
Trans1 State ID:	NYAM6504
Trans2 State ID:	Not reported
Generator Ship Date:	921223
Trans1 Recv Date:	921223
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	921223
Part A Recv Date:	930107
Part B Recv Date:	930107
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00303

T.E.K. DRY CLEANERS (Continued) **1000107362**

Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 92

Document ID: NYC1532867
Manifest Status: Completed copy
Trans1 State ID: NYNF6576
Trans2 State ID: Not reported
Generator Ship Date: 920318
Trans1 Recv Date: 920318
Trans2 Recv Date: Not reported
TSD Site Recv Date: 920318
Part A Recv Date: Not reported
Part B Recv Date: 920401
Generator EPA ID: NYD981077878
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD000824581
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00303
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 92

Document ID: NYC1561274
Manifest Status: Completed copy
Trans1 State ID: NYNS7862
Trans2 State ID: Not reported
Generator Ship Date: 920415
Trans1 Recv Date: 920415
Trans2 Recv Date: Not reported
TSD Site Recv Date: 920415
Part A Recv Date: 920427
Part B Recv Date: 920423
Generator EPA ID: NYD981077878
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD000824581
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00303
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 92

Document ID: NYC1682188

T.E.K. DRY CLEANERS (Continued) **1000107362**

Manifest Status:	Completed copy
Trans1 State ID:	NYNS7862
Trans2 State ID:	Not reported
Generator Ship Date:	920609
Trans1 Recv Date:	920609
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920609
Part A Recv Date:	Not reported
Part B Recv Date:	920619
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00303
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	92

Document ID:	NYC1486855
Manifest Status:	Completed copy
Trans1 State ID:	NYNF6576
Trans2 State ID:	Not reported
Generator Ship Date:	920217
Trans1 Recv Date:	920217
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	920217
Part A Recv Date:	920228
Part B Recv Date:	920225
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00202
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	92

Document ID:	NYC1919608
Manifest Status:	Completed copy
Trans1 State ID:	NYLW1771
Trans2 State ID:	Not reported
Generator Ship Date:	921030
Trans1 Recv Date:	921030
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	921030
Part A Recv Date:	921120
Part B Recv Date:	921109

T.E.K. DRY CLEANERS (Continued) **1000107362**

Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00101
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	92

Document ID:	NYA6793863
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYCR7085
Trans2 State ID:	Not reported
Generator Ship Date:	870916
Trans1 Recv Date:	870916
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870916
Part A Recv Date:	871106
Part B Recv Date:	870923
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00270
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	87

Document ID:	NYA6904394
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYCR7085
Trans2 State ID:	Not reported
Generator Ship Date:	871218
Trans1 Recv Date:	871218
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	871218
Part A Recv Date:	880223
Part B Recv Date:	871228
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00405
Units:	P - Pounds
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)

T.E.K. DRY CLEANERS (Continued) **1000107362**

Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 87

Document ID: NYA6468552
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: NY27900GL
Trans2 State ID: Not reported
Generator Ship Date: 870227
Trans1 Recv Date: 870227
Trans2 Recv Date: Not reported
TSD Site Recv Date: 870227
Part A Recv Date: 870410
Part B Recv Date: 870305
Generator EPA ID: NYD981077878
Trans1 EPA ID: ILD000805911
Trans2 EPA ID: Not reported
TSDF ID: NYD000824581
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00480
Units: P - Pounds
Number of Containers: 004
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 87

Document ID: NYA6737747
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: NYCR7085
Trans2 State ID: Not reported
Generator Ship Date: 870721
Trans1 Recv Date: 870721
Trans2 Recv Date: Not reported
TSD Site Recv Date: 870721
Part A Recv Date: 870910
Part B Recv Date: 870724
Generator EPA ID: NYD981077878
Trans1 EPA ID: ILD000805911
Trans2 EPA ID: Not reported
TSDF ID: NYD000824581
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00405
Units: P - Pounds
Number of Containers: 003
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 87

Document ID: NYA6875436
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: NYCR7085
Trans2 State ID: Not reported

T.E.K. DRY CLEANERS (Continued) **1000107362**

Generator Ship Date:	871123
Trans1 Recv Date:	871123
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	871123
Part A Recv Date:	880121
Part B Recv Date:	871127
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00540
Units:	P - Pounds
Number of Containers:	004
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	87

Document ID:	NYA8691388
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYCR7085
Trans2 State ID:	Not reported
Generator Ship Date:	880210
Trans1 Recv Date:	880210
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880210
Part A Recv Date:	880308
Part B Recv Date:	880217
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00675
Units:	P - Pounds
Number of Containers:	005
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	88

Document ID:	NYA8777709
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYCR7085
Trans2 State ID:	Not reported
Generator Ship Date:	880407
Trans1 Recv Date:	880407
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880407
Part A Recv Date:	880526
Part B Recv Date:	880412
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported

T.E.K. DRY CLEANERS (Continued) **1000107362**

TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00540
Units:	P - Pounds
Number of Containers:	004
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	88

Document ID:	NYA8924534
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYCR7085
Trans2 State ID:	Not reported
Generator Ship Date:	880311
Trans1 Recv Date:	880311
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880311
Part A Recv Date:	880428
Part B Recv Date:	880318
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00675
Units:	P - Pounds
Number of Containers:	005
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	88

Document ID:	NYC1993972
Manifest Status:	Completed copy
Trans1 State ID:	NYLW1771
Trans2 State ID:	Not reported
Generator Ship Date:	921012
Trans1 Recv Date:	921012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	921012
Part A Recv Date:	921029
Part B Recv Date:	921022
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00540
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	92

T.E.K. DRY CLEANERS (Continued) **1000107362**

Document ID:	NYC2009935
Manifest Status:	Completed copy
Trans1 State ID:	NYHD5242
Trans2 State ID:	Not reported
Generator Ship Date:	921123
Trans1 Recv Date:	921123
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	921123
Part A Recv Date:	921202
Part B Recv Date:	921203
Generator EPA ID:	NYD981077878
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD000824581
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00303
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	92

Click this hyperlink while viewing on your computer to access
73 additional NY_MANIFEST: record(s) in the EDR Site Report.

X119 **TEK DRY CLEANERS** **HSWDS** **S108146653**
NNE **852 STATE FAIR BLVD** **N/A**
> 1 **GEDDES, NY 13209**
1.500 mi.
7921 ft. **Site 2 of 2 in cluster X**

Relative:
Higher

Actual:
477 ft.

HSWDS:

Facility ID:	Not reported
Region:	7
Facility Status:	None
Owner Type:	Puplic
Owner:	Ed Kolceski
Owner Address:	852 Statefair Blvd
Owner Phone:	315-487-7319
Operator Type:	Puplic
Operator:	Same
Operator:	Same
Operator Phone:	Unknown
EPA ID:	None
Registry:	D
Registry Site ID:	734045
RCRA Permitted:	Unknown
Site Code:	5-dryclean
Owner City State:	Lakeland, NY
Operator City State:	Not reported
Quadrange:	Syracuse West
Latitude:	43 05'32"N
Longitude:	76 14'28"W
Acres:	2.00
Operator Date:	1950
Close Date:	1988
Completed:	Phase I

TEK DRY CLEANERS (Continued) **S108146653**

Active:	No
PCB's Disposed:	No
Pesticides Disposed:	No
Metals Disposed:	No
Asbestos Disposed:	No
Volatile Organic Compounds Disposed:	Yes
Semi Volatile Organic Compounds Disposed:	Yes
Analytical Info Exists for Air:	Air
Analytical Info Exists for Ground:	Groundwater
Analytical Info Exists for Surface:	Not reported
Analytical Info Exists for Sediments:	Not reported
Analytical Info Exists for Surface:	Surface Soil
Analytical Info Exists for Substance:	Not reported
Analytical Info Exists for Waste:	Waste
Analytical Info Exists for Leachate:	Not reported
Analytical Info Exists for EP Toxicity:	Not reported
Analytical Info Exists for TCLP:	Not reported
Threat to Environment/Public Health:	Environmental/Public
Surface Water Contamination:	Unknown
Surface Water Body Class:	Unknown
Groundwater Contamination:	Unknown
Groundwater Classification:	Unknown
Drinking Water Contamination:	Unknown
Drinking Water Supply is Active:	Unknown
Any Known Fish or Wildlife:	No
Hazardous Exposure:	Unknown
Site Has Controlled Acess:	No
Ambient Air Contamination:	Yes
Direct Contact:	Unknown
EPA Hazardous Ranking System Score:	Unknown
Inventory:	F
Nefrap:	Not reported
Mailing:	Not reported
Tax Map No:	Not reported
Qualify:	0
Next Action:	Not reported
Agencies:	Not reported
Air:	Not reported
Building:	Not reported
Site Desc:	Not reported
Drink:	Not reported
Eptox:	Not reported
Fish:	Not reported
Ground:	Not reported
Ground Desc:	Not reported
Hazardous Threat:	Not reported
Haz Threat Desc:	Not reported
Leachate:	Not reported
Preparer:	Not reported
Sediment:	Not reported
Soil:	Not reported
Surface:	Not reported
Status:	Not reported
Surface Soil:	Not reported
Surface:	Not reported
TCLP:	Not reported
Waste:	Not reported

Y120 **SOUTHERN CONTAINER CORP** **CORRACTS** **1000407952**
SSW **500 HINSDALE RD** **RCRA-NonGen** **NYD002246171**
> 1 **SYRACUSE, NY 13031** **FINDS**
1.503 mi. **UST**
7935 ft. **Site 1 of 3 in cluster Y** **HIST UST**
MANIFEST

Relative:
Higher

Actual:
471 ft.

CORRACTS:

EPA ID:	NYD002246171
EPA Region:	2
Area Name:	SITEWIDE
Actual Date:	7/27/1995
Action:	CA050 - RFA Completed
NAICS Code(s):	322211 Corrugated and Solid Fiber Box Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	NYD002246171
EPA Region:	2
Area Name:	SITEWIDE
Actual Date:	9/18/1995
Action:	CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s):	322211 Corrugated and Solid Fiber Box Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

RCRA-NonGen:

Date form received by agency:	01/01/2007
Facility name:	SOUTHERN CONTAINER CORP
Facility address:	500 HINSDALE RD SYRACUSE, NY 13031
EPA ID:	NYD002246171
Mailing address:	ENGINEERS RD HAUPPAUGE, NY 11788
Contact:	Not reported
Contact address:	ENGINEERS RD HAUPPAUGE, NY 11788
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	SOUTHERN CONTAINER CORP
Owner/operator address:	COURTHOUSE PLAZA NE DAYTON, OH 45463
Owner/operator country:	US
Owner/operator telephone:	(513) 222-6323
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

SOUTHERN CONTAINER CORP (Continued) **1000407952**

Owner/operator name: MEAD CORP
Owner/operator address: COURTHOUSE PLZ NE
OPERCITY, OH 99999
Owner/operator country: US
Owner/operator telephone: (513) 222-6323
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: SOUTHERN CONTAINER CORP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: SOUTHERN CONTAINER CORP
Classification: Not a generator, verified

Date form received by agency: 11/19/1980
Facility name: SOUTHERN CONTAINER CORP
Classification: Not a generator, verified

Date form received by agency: 08/11/1980
Facility name: SOUTHERN CONTAINER CORP
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 07/27/1995
Event: RFA Completed

Event date: 09/18/1995
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Violation Status: No violations found

SOUTHERN CONTAINER CORP (Continued) **1000407952**

FINDS:

Registry ID: 110009465587

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

UST:

Facility Id:	7-180939
Region:	STATE
DEC Region:	7
Site Status:	Unregulated
Program Type:	PBS
Expiration Date:	N/A
UTM X:	396906.70711000002
UTM Y:	4767811.7172100004

Affiliation Records:

Site Id:	44959
Affiliation Type:	On-Site Operator
Company Name:	SOUTHERN CONTAINER CORPORATION
Contact Type:	Not reported
Contact Name:	SOUTHERN CONTAINER CORPORATION
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-6111
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	44959
Affiliation Type:	Owner
Company Name:	SOUTHERN CONTAINER CORPORATION
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	115 ENGINEERS ROAD
Address2:	Not reported
City:	HAUPPAUGE
State:	NY
Zip Code:	11788
Country Code:	001
Phone:	(516) 231-0400
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported

SOUTHERN CONTAINER CORP (Continued) **1000407952**

Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	44959
Affiliation Type:	Emergency Contact
Company Name:	SOUTHERN CONTAINER CORPORATION
Contact Type:	Not reported
Contact Name:	JIM PAPPALARDO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-6111
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	44959
Affiliation Type:	Mail Contact
Company Name:	SOUTHERN CONTAINER CORPORATION
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	115 ENGINEERS ROAD
Address2:	Not reported
City:	HAUPPAUGE
State:	NY
Zip Code:	11788
Country Code:	001
Phone:	(516) 231-0400
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Equipment Records:

J02 - Dispenser - Suction
A00 - Tank Internal Protection - None
I00 - Overfill - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
J02 - Dispenser - Suction
D01 - Pipe Type - Steel/Carbon Steel/Iron
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
B00 - Tank External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

SOUTHERN CONTAINER CORP (Continued) **1000407952**

I00 - Overfill - None
H00 - Tank Leak Detection - None
G00 - Tank Secondary Containment - None
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
A00 - Tank Internal Protection - None
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
I00 - Overfill - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
B00 - Tank External Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction
F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping

Tank Info:

Site ID:	44959
Tank Number:	001
Tank ID:	134187
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1971
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004
Site ID:	44959
Tank Number:	002
Tank ID:	134188
Tank Status:	Closed Prior to Micro Conversion, 03/91
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	12/1/1971
Capacity Gallons:	4000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	3/4/2004

SOUTHERN CONTAINER CORP (Continued) **1000407952**

Site ID: 44959

Tank Number: 003
Tank ID: 134189
Tank Status: Closed Prior to Micro Conversion, 03/91
Tank Model: Not reported
Pipe Model: Not reported
Install Date: 12/1/1971
Capacity Gallons: 12000
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

Site ID: 44959

Tank Number: 004
Tank ID: 134190
Tank Status: Closed Prior to Micro Conversion, 03/91
Tank Model: Not reported
Pipe Model: Not reported
Install Date: 12/1/1971
Capacity Gallons: 10000
Tightness Test Method: NN
Next Test Date: Not reported
Date Tank Closed: Not reported
Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: TRANSLAT
Last Modified: 3/4/2004

HIST UST:
PBS Number: 7-180939
SPDES Number: Not reported
Emergency Contact: JIM PAPPALARDO
Emergency Telephone: (315) 487-6111
Operator: SOUTHERN CONTAINER CORPORATION
Operator Telephone: (315) 487-6111
Owner Name: SOUTHERN CONTAINER CORPORATION
Owner Address: 115 ENGINEERS ROAD
Owner City,St,Zip: HAUPPAUGE, NY 11788
Owner Telephone: (516) 231-0400
Owner Type: Not reported
Owner Subtype: Not reported
Mailing Name: SOUTHERN CONTAINER CORPORATION
Mailing Address: 115 ENGINEERS ROAD
Mailing Address 2: Not reported
Mailing City,St,Zip: HAUPPAUGE, NY 11788
Mailing Contact: Not reported
Mailing Telephone: (516) 231-0400

SOUTHERN CONTAINER CORP (Continued) **1000407952**

Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	3120
Old PBS Number:	Not reported
Facility Type:	Not reported
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	06/18/1987
Expiration Date:	06/18/1992
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	CAMILLUS
County Code:	31
Town or City:	20
Region:	7

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19711201
Capacity (gals):	4000
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND

SOUTHERN CONTAINER CORP (Continued) **1000407952**

Tank Status:	Closed Before April 1, 1991
Install Date:	19711201
Capacity (gals):	4000
Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19711201
Capacity (gals):	12000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	Closed Before April 1, 1991
Install Date:	19711201
Capacity (gals):	10000

SOUTHERN CONTAINER CORP (Continued) **1000407952**

Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Not reported
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

NY MANIFEST:

EPA ID:	NYD002246171
Country:	USA
Mailing Name:	SOUTHERN CONTAINER CORPORATION
Mailing Contact:	SOUTHERN CONTAINER CORPORATION
Mailing Address:	500 HINSDALE ROAD
Mailing Address 2:	Not reported
Mailing City:	CAMILLUS
Mailing State:	NY
Mailing Zip:	13031
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	315-487-6111

Document ID:	NYO1362231
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	7A041
Trans2 State ID:	Not reported
Generator Ship Date:	811203
Trans1 Recv Date:	811203
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	811203
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002246171
Trans1 EPA ID:	NYD009861410
Trans2 EPA ID:	Not reported
TSDF ID:	NYD080336241
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00880
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	016
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100

SOUTHERN CONTAINER CORP (Continued) **1000407952**

Year: 80-81

Document ID: NYO2218824
Manifest Status: Completed copy
Trans1 State ID: 7A-076
Trans2 State ID: Not reported
Generator Ship Date: 830408
Trans1 Recv Date: 830408
Trans2 Recv Date: Not reported
TSD Site Recv Date: 830408
Part A Recv Date: 030413
Part B Recv Date: 030413
Generator EPA ID: NYD002246171
Trans1 EPA ID: NYD057770109
Trans2 EPA ID: Not reported
TSDF ID: NYD057770109
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 00385
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 007
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 83

Document ID: NYO2218923
Manifest Status: Completed copy
Trans1 State ID: 7A-076
Trans2 State ID: Not reported
Generator Ship Date: 821213
Trans1 Recv Date: 821213
Trans2 Recv Date: Not reported
TSD Site Recv Date: 821213
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD002246171
Trans1 EPA ID: NYD057770109
Trans2 EPA ID: Not reported
TSDF ID: NYD057770109
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 04180
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 076
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 82

Document ID: NYO1579068
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 7A-076
Trans2 State ID: Not reported
Generator Ship Date: 830907
Trans1 Recv Date: 830907

SOUTHERN CONTAINER CORP (Continued) **1000407952**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	830907
Part A Recv Date:	031017
Part B Recv Date:	031017
Generator EPA ID:	NYD002246171
Trans1 EPA ID:	NYD057770109
Trans2 EPA ID:	Not reported
TSDF ID:	NYD057770109
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	01165
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	021
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	83

Y121 **NIMO HINSDALE SERVICE CTR** **LTANKS S101340727**
SSW **500 HINSDALE ROAD** **HIST LTANKS N/A**
> 1 **CAMILLUS, NY**
1.503 mi.
7935 ft. **Site 2 of 3 in cluster Y**

Relative:
Higher

Actual:
471 ft.

LTANKS:

Site ID:	233705
Spill No:	9412182
Spill Date:	12/12/1994
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	8/6/2002
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	3420
Investigator:	CFMANNES
Referred To:	Not reported
Reported to Dept:	12/12/1994
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1/26/1995
Spill Record Last Update:	8/6/2002
Spiller Name:	Not reported
Spiller Company:	NIMO
Spiller Address:	ERIE BLVD. WEST
Spiller City,St,Zip:	SYRACUSE, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	192557

NIMO HINSDALE SERVICE CTR (Continued) **S101340727**

DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" NO REPORT SUBMITTED
Remarks: DISCOVERED CONTAMIANTED SOIL IN EXCAVATION NEAR OLD UNDERGROUND TANK.

Material:
Site ID: 233705
Operable Unit ID: 1005939
Operable Unit: 01
Material ID: 374512
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Pounds
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

HIST LTANKS:
Region of Spill: 7
Spill Number: 9412182
Spill Date: 12/12/1994
Spill Time: 14:30
Spill Cause: Tank Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: CM
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 12/12/94

NIMO HINSDALE SERVICE CTR (Continued) **S101340727**

Reported to Department Time: 14:50
SWIS: 31
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: NIMO
Spiller Address: ERIE BLVD. WEST
Spiller City,St,Zip: SYRACUSE, NEW YORK
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (315) 428-3490
Facility Extention: Not reported
Spill Notifier: Responsible Party
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 01/26/95
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Spill Cause: DISCOVERED CONTAMIANTED SOIL IN EXCAVATION NEAR OLD UNDERGROUND TANK.

122
ESE
> 1
1.512 mi.
7984 ft.

P&S / BOYD AVE.
50 BOYD AVENUE
SOLVAY, NY 13209

ENG CONTROLS
INST CONTROL
BROWNFIELDS

S106906544
N/A

Relative:
Higher

Actual:
413 ft.

ENG CONTROLS:

Site Code:	332624
HW Code:	C734102
Control Code:	15
Control Type:	ENG
Date Record Added:	10/12/2010 4:20:51 PM
Date Rec Updated:	11/4/2010 11:11:21 AM
Updated By:	GATOWNSE
Site Description:	The Pass and Seymour Boyd Ave. site is located in an urban area of Solvay, NY, central Onondaga County, near the City of Syracuse. The site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).
Env Problem:	The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 migrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

P&S / BOYD AVE. (Continued) **S106906544**

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

Site Code: 332624
HW Code: C734102
Control Code: 13
Control Type: ENG
Date Record Added: 10/12/2010 4:20:51 PM
Date Rec Updated: 11/4/2010 11:11:21 AM
Updated By: GATOWNSE
Site Description: The Pass and Seymour Boyd Ave. site is located in an urban area of Solvay, NY, central Onondaga County, near the City of Syracuse. The site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).
Env Problem: The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 migrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears

P&S / BOYD AVE. (Continued) **S106906544**

to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

INST CONTROL:

Site Code: 332624
Control Name: Environmental Easement
HW Code: C734102
Control Code: J
Control Type: INST
Dt record added: 10/12/2010 4:20:51 PM
Dt rec updated: 11/4/2010 11:11:21 AM
Updated By: GATOWNSE
Site Code: 332624
Site Description: The Pass and Seymour Boyd Ave. site is located in an urban area of Solvay, NY, central Onondaga County, near the City of Syracuse. The site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).
Env Problem: The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 migrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete

P&S / BOYD AVE. (Continued) **S106906544**

slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

Site Code: 332624
Control Name: Site Management Plan
HW Code: C734102
Control Code: 32
Control Type: INST
Dt record added: 10/12/2010 4:20:51 PM
Dt rec updated: 11/4/2010 11:11:21 AM
Updated By: GATOWNSE
Site Code: 332624
Site Description: The Pass and Seymour Boyd Ave. site is located in an urban area of Solvay, NY, central Onondaga County, near the City of Syracuse. The site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).

Env Problem: The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in

P&S / BOYD AVE. (Continued) **S106906544**

overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 migrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

Site Code: 332624
Control Name: Ground Water Use Restriction
HW Code: C734102
Control Code: 08
Control Type: INST
Dt record added: 10/12/2010 4:20:51 PM
Dt rec updated: 11/4/2010 11:11:21 AM
Updated By: GATOWNSE
Site Code: 332624

Site Description: The Pass and Seymour Boyd Ave. site is located in an urban area of Solvay, NY, central Onondaga County, near the City of Syracuse. The site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).

Env Problem: The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in

P&S / BOYD AVE. (Continued) **S106906544**

the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 migrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

Site Code: 332624
Control Name: Monitoring Plan
HW Code: C734102
Control Code: 31
Control Type: INST
Dt record added: 10/12/2010 4:20:51 PM
Dt rec updated: 11/4/2010 11:11:21 AM
Updated By: GATOWNSE
Site Code: 332624
Site Description: The Pass and Seymour Boyd Ave. site is located in an urban area of Solvay, NY, central Onondaga County, near the City of Syracuse. The site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).

P&S / BOYD AVE. (Continued) **S106906544**

Env Problem: The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 migrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

Site Code: 332624
Control Name: IC/EC Plan
HW Code: C734102
Control Code: 34
Control Type: INST
Dt record added: 10/12/2010 4:20:51 PM
Dt rec updated: 11/4/2010 11:11:21 AM
Updated By: GATOWNSE
Site Code: 332624
Site Description: The Pass and Seymour Boyd Ave. site is located in an urban area of Solvay, NY, central Onondaga County, near the City of Syracuse. The site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab

P&S / BOYD AVE. (Continued) **S106906544**

depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).

Env Problem: The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 migrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

Site Code: 332624
Control Name: O&M Plan
HW Code: C734102
Control Code: 33
Control Type: INST
Dt record added: 10/12/2010 4:20:51 PM
Dt rec updated: 11/4/2010 11:11:21 AM
Updated By: GATOWNSE
Site Code: 332624
Site Description: The Pass and Seymour Boyd Ave. site is located in an urban area of Solvay, NY, central Onondaga County, near the City of Syracuse. The site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of

P&S / BOYD AVE. (Continued) **S106906544**

porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).

Env Problem: The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 migrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

Site Code: 332624
Control Name: Landuse Restriction
HW Code: C734102
Control Code: 25
Control Type: INST
Dt record added: 10/12/2010 4:20:51 PM
Dt rec updated: 11/4/2010 11:11:21 AM
Updated By: GATOWNSE
Site Code: 332624
Site Description: The Pass and Seymour Boyd Ave. site is located in an urban area of Solvay, NY, central Onondaga County, near the City of Syracuse. The site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid

P&S / BOYD AVE. (Continued) **S106906544**

waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).

Env Problem: The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 migrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

Site Code: 332624
Control Name: Soil Management Plan
HW Code: C734102
Control Code: 14
Control Type: INST
Dt record added: 10/12/2010 4:20:51 PM
Dt rec updated: 11/4/2010 11:11:21 AM
Updated By: GATOWNSE
Site Code: 332624
Site Description: The Pass and Seymour Boyd Ave. site is located in an urban area of

P&S / BOYD AVE. (Continued) **S106906544**

Solvay, NY, central Onondaga County, near the City of Syracuse. The site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).

Env Problem: The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 micrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

BROWNFIELDS:

Program: BCP
Site Code: 332624
Site Description: The Pass and Seymour Boyd Ave. site is located in an urban area of Solvay, NY, central Onondaga County, near the City of Syracuse. The

P&S / BOYD AVE. (Continued) **S106906544**

site covers about 18 acres with a 45,000 square foot office building, a large former manufacturing facility that was demolished in 2005 (the concrete slab remains), parking areas and a wooded area that covers a former landfill. The site is bordered by a municipal solid waste landfill to the northwest, a furniture store and warehouse to the east, an iron foundry to the west, and a variety of commercial businesses and residences to the south that are separated from the site by railroad tracks and Milton Avenue. Historically, the site operated as a steel mill and was also used for the manufacture of porcelain insulators with clay and metal working areas. The Remedial Investigation field work was completed in stages; initial phases were conducted in 2005 and 2006 and supplemental activities were done in 2007 and 2008. Two interim remedial measures were implemented at the site in 2008, including the installation of a sub-slab depressurization system in the office building to mitigate potential soil vapor intrusion, and excavation and removal of contaminated soil adjacent to former monitoring well MW-5 in the southwestern portion of the site to address the presence of light non-aqueous phase liquid (LNAPL).

Env Problem: The primary contaminants of concern at the site include chlorinated VOCs--mainly trichloroethene (TCE), tetrachloroethene (PCE), and cis-1,2-dichloroethene (DCE)--in groundwater. Two groundwater areas of concern (AOCs) have been identified at the site. AOC-1 contamination exists in both bedrock and overburden groundwater in the central portion of the site west of Boyd Ave, just west of the existing office building and encompassing the former manufacturing building. The levels significantly exceed the Class GA groundwater quality standard for TCE of 5 ppb. In AOC-1, TCE was detected as high as 150,000 ppb in bedrock groundwater and as high as 2,000 ppb in overburden groundwater. AOC-2 contamination, east of Boyd Ave, exists in the overburden/weathered bedrock zone only, with TCE detected as high as 6,000 ppb. TCE has been detected in soil vapor as high as 1,900 migrograms per cubic meter (mcg/m3) near the occupied office building and as high as 2,400 mcg/m3 under the remaining concrete slab of the demolished manufacturing building. In addition, SVOCs, metals and PCBs have been detected in shallow (0-12 inches) soil samples above the commercial use soil cleanup objectives (SCOs). SVOCs in the form of PAHs exceeded SCOs in 4 of 53 samples analyzed as part of the RI, metals exceeded SCOs in 11 of 53 samples and PCBs in only one of 53 samples. Contaminated bedrock groundwater appears to be migrating off-site to the north of the property boundary. It has been determined that the site presents a significant threat to the environment.

Health Problem: People will not come into contact with contaminated soils at the site unless they trespass on the site, which is not secured to prevent access. Contaminated groundwater is not being used for drinking water, as the area is served by the public water supply. A ventilation system has been installed on the on-site building to prevent the indoor air quality from being affected by the contamination.

Y123 **LARRY MCGRAW** **LTANKS** **S105230318**
SSW **MILTON & HINSDALE** **HIST LTANKS** **N/A**
> 1 **CAMILLUS, NY**
1.515 mi.
7998 ft. **Site 3 of 3 in cluster Y**

Relative:
Higher

Actual:
474 ft.

LTANKS:

Site ID:	145494
Spill No:	0107733
Spill Date:	10/29/2001
Spill Cause:	Tank Failure
Spill Source:	Gasoline Station
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	10/31/2003
Facility Addr2:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	3420
Investigator:	CFMANNES
Referred To:	Not reported
Reported to Dept:	10/29/2001
CID:	322
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/29/2001
Spill Record Last Update:	10/31/2003
Spiller Name:	LARRY MCGRAW
Spiller Company:	LARRY MCGRAW
Spiller Address:	MILTON & HINSDALE
Spiller City,St,Zip:	CAMILLUS, NY
Spiller County:	001
Spiller Contact:	LARRY MCGRAW
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	123977
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" remediation conducted, soil disposed, receipts not submitted.
Remarks:	during a heating tank pull at closed gas station contaminated soil was found

Material:

Site ID:	145494
Operable Unit ID:	844973
Operable Unit:	01
Material ID:	528995
Material Code:	0001
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported

LARRY MCGRAW (Continued) **S105230318**

Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

HIST LTANKS:
Region of Spill: 7
Spill Number: 0107733
Spill Date: 10/29/2001
Spill Time: 15:00
Spill Cause: Tank Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Gas Station
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: CM
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 10/29/01
Reported to Department Time: 15:30
SWIS: 31
Spiller Contact: LARRY MCGRAW
Spiller Phone: ( ) -
Spiller Extention: Not reported
Spiller Name: LARRY MCGRAW
Spiller Address: MILTON & HINSDALE
Spiller City,St,Zip: CAMILLUS, NY
Spiller Cleanup Date: / /
Facility Contact: LARRY MCGRAW
Facility Phone: ( ) -
Facility Extention: Not reported
Spill Notifier: Other
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /

LARRY MCGRAW (Continued) **S105230318**

Investigation Complete: / /
UST Involvement: False
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 10/29/01
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 12/19/01
Is Updated: True

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: True
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: #2 FUEL OIL
Class Type: #2 FUEL OIL
Times Material Entry In File: 24464
CAS Number: Not reported
Last Date: 19941207
DEC Remarks: Not reported
Spill Cause: during a heating tank pull at closed gas station contaminated soil was found

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Z124 **FEMANO'S AUTOMOTIVE** **LTANKS** **S100781657**
ESE **2459 MILTON AVENUE** **HIST LTANKS** **N/A**
> 1 **SOLVAY, NY**
1.570 mi.
8287 ft. **Site 1 of 2 in cluster Z**

Relative:
Higher

Actual:
433 ft.

LTANKS:
Site ID: 197353
Spill No: 9304351
Spill Date: 3/8/1993
Spill Cause: Tank Failure
Spill Source: Non Major Facility > 1,100 gal
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 1/30/2004
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 3400
Investigator: CFMANNES
Referred To: Not reported
Reported to Dept: 3/8/1993
CID: Not reported
Water Affected: Not reported
Spill Notifier: DEC
Last Inspection: Not reported

FEMANO'S AUTOMOTIVE (Continued) **S100781657**

Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	10/18/1993
Spill Record Last Update:	5/3/2004
Spiller Name:	Not reported
Spiller Company:	FRANK JEROME
Spiller Address:	2409 MILTON AVE
Spiller City,St,Zip:	SYRACUSE, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	164252
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CM" / / : STIP SENT. 09/28/95: This is additional information about material spilled from the translation of the old spill file: TANK(S) PULL.
Remarks:	TANK PULL A REPORT HAS BEEN SUBMITTED.

Material:

Site ID:	197353
Operable Unit ID:	985962
Operable Unit:	01
Material ID:	397865
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	True
Site ID:	197353
Operable Unit ID:	985962
Operable Unit:	01
Material ID:	573007
Material Code:	1213A
Material Name:	MTBE (METHYL-TERT-BUTYL ETHER)
Case No.:	01634044
Material FA:	Hazardous Material
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	True

Tank Test:

Site ID:	197353
Spill Tank Test:	1541743
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0

FEMANO'S AUTOMOTIVE (Continued) **S100781657**

Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

HIST LTANKS:
Region of Spill: 7
Spill Number: 9304351
Spill Date: 03/08/1993
Spill Time: 11:00
Spill Cause: Tank Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Non Major Facility > 1,100 gallons
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Cleanup Ceased: / /
Cleanup Meets Standard: False
Investigator: CM
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 03/08/93
Reported to Department Time: 11:00
SWIS: 31
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: FRANK JEROME
Spiller Address: 2409 MILTON AVE
Spiller City,St,Zip: SYRACUSE, NY
Spiller Cleanup Date: 03/12/93
Facility Contact: Not reported
Facility Phone: Not reported
Facility Extention: Not reported
Spill Notifier: DEC
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 10/18/93
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 07/11/94
Is Updated: False

FEMANO'S AUTOMOTIVE (Continued) **S100781657**

Tank:
- PBS Number: Not reported
- Tank Number: Not reported
- Tank Size: Not reported
- Test Method: Not reported
- Leak Rate Failed Tank: Not reported
- Gross Leak Rate: Not reported

Material:
- Material Class Type: Petroleum
- Quantity Spilled: 0
- Unkonwn Quantity Spilled: False
- Units: Gallons
- Quantity Recovered: 0
- Unkonwn Quantity Recovered: False
- Material: GASOLINE
- Class Type: GASOLINE
- Times Material Entry In File: 21329
- CAS Number: Not reported
- Last Date: 19940929
- DEC Remarks: / / : STIP SENT. 09/28/95: This is additional information about material spilled from the translation of the old spill file: TANK S) PULL.
- Spill Cause: TANK PULL A REPORT HAS BEEN SUBMITTED.

Z125 **JEROME PLMB., MILTON AVE.** **LTANKS** **S100128572**
ESE **CITGO STATION; MILTON AVE** **HIST LTANKS** **N/A**
> 1 **SOLVAY, NY**
1.587 mi.
8380 ft. **Site 2 of 2 in cluster Z**

Relative:
Higher

Actual:
432 ft.

LTANKS:
- Site ID: 162615
- Spill No: 8604736
- Spill Date: 10/22/1986
- Spill Cause: Tank Failure
- Spill Source: Gasoline Station
- Spill Class: Not reported
- Spill Closed Dt: 8/11/1987
- Facility Addr2: MILTON AVE
- Cleanup Ceased: 8/11/1987
- Cleanup Meets Standard: True
- SWIS: 3400
- Investigator: UNASSIGNED
- Referred To: Not reported
- Reported to Dept: 10/22/1986
- CID: Not reported
- Water Affected: Not reported
- Spill Notifier: Responsible Party
- Last Inspection: Not reported
- Recommended Penalty: Penalty Not Recommended
- UST Involvement: True
- Remediation Phase: 0
- Date Entered In Computer: Not reported
- Spill Record Last Update: 12/2/2003
- Spiller Name: Not reported
- Spiller Company: JEROME PLUMBING
- Spiller Address: 2409 MILTON AVE.
- Spiller City,St,Zip: SOLVAY, ZZ

JEROME PLMB., MILTON AVE. (Continued) **S100128572**

Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	137194
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was " " / / : TURNED OVER TO ANDY WATKINS.
Remarks:	REPORTED TANK LEAK WHILE I WAS ON SITE INSPECTING A MINOR SURFACE SPILL. TANK IS TAKING ON WATER, A SECOND TANK ON SITE IS ALSO LEAKING. Not reported

Material:

Site ID:	162615
Operable Unit ID:	901747
Operable Unit:	01
Material ID:	473968
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	8604736
Spill Date:	10/22/1986
Spill Time:	10:00
Spill Cause:	Tank Failure
Resource Affectd:	Groundwater
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Not reported
Spill Closed Dt:	08/11/87
Cleanup Ceased:	08/11/87
Cleanup Meets Standard:	True
Investigator:	Not reported
Caller Name:	Not reported
Caller Agency:	Not reported

JEROME PLMB., MILTON AVE. (Continued) **S100128572**

Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	10/22/86
Reported to Department Time:	10:00
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	JEROME PLUMBING
Spiller Address:	2409 MILTON AVE.
Spiller City,St,Zip:	SOLVAY
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	10/30/86
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	/ /
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0
Unkonwn Quantity Spilled:	False
Units:	Not reported
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	GASOLINE
Class Type:	GASOLINE
Times Material Entry In File:	21329
CAS Number:	Not reported
Last Date:	19940929
DEC Remarks:	/ / : TURNED OVER TO ANDY WATKINS.
Spill Cause:	REPORTED TANK LEAK WHILE I WAS ON SITE INSPECTING A MINOR SURFACE SPILL. TANK IS TAKING ON WATER, A SECOND TANK ON SITE IS ALSO LEAKING.

126
ENE
> 1
1.601 mi.
8453 ft.

NYS FAIRGROUNDS SLF
STATE FAIR BLVD
SOLVAY, NY 13209

SWF/LF **S103276857**
N/A

Relative:
Higher

Actual:
425 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	7
Phone Number:	Not reported
Owner Name:	NEW YORK STATE FAIRGROUND
Owner Type:	Private
Owner Address:	STATE FAIR BLVD
Owner Addr2:	Not reported
Owner City,St,Zip:	SOLVAY, NY 13209
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Landfill - mixed solid waste
Activity Number:	34S13
Active:	No
East Coordinate:	400863
North Coordinate:	4770691
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

127
NE
> 1
1.615 mi.
8525 ft.

INDUSTRIAL LF CRUCIBLE
P.O. BOX 977
SYRACUSE, NY 13201

SWF/LF **S103592971**
N/A

Relative:
Lower

Actual:
378 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	7
Phone Number:	3154874111
Owner Name:	CRUCIBLE STEEL INC
Owner Type:	Private
Owner Address:	P.O. BOX 977
Owner Addr2:	Not reported
Owner City,St,Zip:	SYRACUSE, NY 13201
Owner Email:	Not reported
Owner Phone:	3154874111
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Landfill - industrial/commercial
Activity Number:	34N27

INDUSTRIAL LF CRUCIBLE (Continued) **S103592971**

Active:	No
East Coordinate:	400026
North Coordinate:	4771366
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	Dust (Baghouse)
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

AA128 **SOLVAY TRANSFER STATION** **SWF/LF** **S105841501**
ESE **BOYD AVENUE** **N/A**
> 1 **SOLVAY, NY 13209**
1.645 mi.
8683 ft. **Site 1 of 3 in cluster AA**

Relative:
Higher

Actual:
411 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	7
Phone Number:	3154681606
Owner Name:	Village of Solvay
Owner Type:	Municipal
Owner Address:	1100 Woods Road
Owner Addr2:	Not reported
Owner City,St,Zip:	Solvay, NY 13209
Owner Email:	Not reported
Owner Phone:	3154681606
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - registered
Activity Number:	34R04
Active:	Yes
East Coordinate:	400749
North Coordinate:	4768545
Accuracy Code:	4.2 - Utilization of GIS and existing spatial data
Regulatory Status:	Registration
Waste Type:	MSW (Residential/Institutional & Commercial);Construction & Demolition Debris
Authorization #:	Not reported
Authorization Date:	10/6/1997
Expiration Date:	Not reported

AB129 **NIAGARA MOHAWK SOLVAY** **CORRACTS** **1000232807**
East **BRIDGE ST** **RCRA-CESQG** **NYD980647952**
> 1 **SYRACUSE, NY 13209** **PADS**
1.659 mi. **FINDS**
8758 ft. **Site 1 of 2 in cluster AB** **MANIFEST**

Relative:
Lower

Actual:
385 ft.

CORRACTS:

EPA ID:	NYD980647952
EPA Region:	2

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Area Name: SITEWIDE
Actual Date: 2/28/1998
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 2/28/1998
Action: CA100 - RFI Imposition
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 2/28/1998
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 2/28/1998
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 3/1/1998
Action: CA110 - RFI Workplan Received
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 3/8/2000
Action: CA200 - RFI Approved
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: OFF-SITE
Actual Date: 4/18/2000

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Action: CA150 - RFI Workplan Approved
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 4/19/2002
Action: CA677
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: OFF-SITE
Actual Date: 5/18/2001
Action: CA200 - RFI Approved
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 5/18/2001
Action: CA610
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 6/22/1998
Action: CA140 - RFI Workplan Notice Of Deficiency Issued
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 6/22/1998
Action: CA120 - RFI Workplan Modification Requested By Agency
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 7/10/1998
Action: CA145
NAICS Code(s): Not reported
Original schedule date: Not reported

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 7/27/1998
Action: CA150 - RFI Workplan Approved
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 10/11/1997
Action: CA010 - RFA Initiation
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: OFF-SITE
Actual Date: 11/6/2000
Action: CA183
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 12/19/2001
Action: CA250 - CMS Imposition
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 12/26/2001
Action: CA260 - CMS Workplan Received
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980647952
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 12/26/2001
Action: CA300 - CMS Workplan Approved
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: NIAGARA MOHAWK SOLVAY
Facility address: BRIDGE ST
SYRACUSE, NY 13209
EPA ID: NYD980647952
Mailing address: ERIE BLVD W
SYRACUSE, NY 13202
Contact: Not reported
Contact address: ERIE BLVD W
SYRACUSE, NY 13202
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: NIAGARA MOHAWK POWER CORPORATION
Owner/operator address: OWNERSTREET
OWNERCITY, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Mixed waste (haz. and radioactive):	Unknown
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Unknown
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	Unknown
Furnace exemption:	Unknown
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No
Off-site waste receiver:	Commercial status unknown

Historical Generators:

Date form received by agency:	01/01/2006
Facility name:	NIAGARA MOHAWK SOLVAY
Classification:	Conditionally Exempt Small Quantity Generator

Date form received by agency:	07/08/1999
Facility name:	NIAGARA MOHAWK SOLVAY
Classification:	Not a generator, verified

Date form received by agency:	04/01/1992
Facility name:	NIAGARA MOHAWK SOLVAY
Classification:	Large Quantity Generator

Date form received by agency:	11/04/1988
Facility name:	NIAGARA MOHAWK SOLVAY
Classification:	Not a generator, verified

Date form received by agency:	08/23/1982
Facility name:	NIAGARA MOHAWK SOLVAY
Classification:	Large Quantity Generator

Corrective Action Summary:

Event date:	10/11/1997
Event:	RFA Initiation

Event date:	02/28/1998
Event:	RFA Completed, Assessment was an RFA.

Event date:	02/28/1998
Event:	RFA Determination Of Need For An RFI, RFI is Necessary;

Event date:	02/28/1998
Event:	CA Prioritization, Facility or area was assigned a medium corrective action priority.

Event date:	02/28/1998
Event:	RFI Imposition

Event date:	03/01/1998
Event:	RFI Workplan Received

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Event date: 06/22/1998
Event: RFI Workplan Modification Requested By Agency

Event date: 06/22/1998
Event: RFI Workplan Notice Of Deficiency Issued

Event date: 07/10/1998
Event: CA145

Event date: 07/27/1998
Event: RFI Workplan Approved

Event date: 03/08/2000
Event: RFI Approved

Event date: 04/18/2000
Event: RFI Workplan Approved

Event date: 11/06/2000
Event: CA183

Event date: 05/18/2001
Event: RFI Approved

Event date: 05/18/2001
Event: CA610

Event date: 12/19/2001
Event: CMS Imposition

Event date: 12/26/2001
Event: CMS Workplan Received

Event date: 12/26/2001
Event: CMS Workplan Approved

Event date: 04/19/2002
Event: CA677

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/23/1990
Date achieved compliance: 11/28/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/13/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 03/24/1987

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Date achieved compliance: 05/29/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/24/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 04/19/2002
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/23/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/23/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/28/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/27/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/23/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/28/1990
Evaluation lead agency: State

Evaluation date: 09/14/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/22/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/20/1988
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/26/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/28/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/24/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 05/29/1987
Evaluation lead agency: State

Evaluation date: 03/18/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/14/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

PADS:
EPAID: NYD980647952
Facility name: SOLVAY SERVICE CTR
Facility Address: BRIDGE ST
SYRACUSE, NY 13209
Facility country: US
Generator: Yes
Storer: No
Transporter: No
Disposer: No
Research facility: No
Smelter: No
Facility owner name: NIAGARA MOHAWK POWER CORP
Contact title: Not reported
Contact name: DOMICK E J
Contact tel: (315)428-2351
Contact extension: Not reported
Mailing address: 300 ERIE BLVD W
SYRACUSE, NY 13202

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Mailing country: US
Cert. title: Not reported
Cert. name: Not reported
Cert. date: 3/15/1990
Date received: 4/20/1990

FINDS:

Registry ID: 110002042511

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD980647952
Country: USA
Mailing Name: NIAGARA MOHAWK POWER CORP
Mailing Contact: UNKNOWN
Mailing Address: 300 ERIE BLVD WEST
Mailing Address 2: Not reported
Mailing City: SYRACUSE
Mailing State: NY
Mailing Zip: 13202
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 315-474-1411

Document ID: ARA7521600
Manifest Status: Completed copy
Trans1 State ID: H197(PC-8
Trans2 State ID: Not reported
Generator Ship Date: 861229
Trans1 Recv Date: 861229
Trans2 Recv Date: Not reported
TSD Site Recv Date: 861230
Part A Recv Date: 870116
Part B Recv Date: 870113
Generator EPA ID: NYD980647952
Trans1 EPA ID: MAD039322250
Trans2 EPA ID: Not reported
TSDF ID: ARD069748192
Waste Code: B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity: 04100
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 86

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Document ID:	MOA0110386
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	861103
Trans1 Recv Date:	861103
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861104
Part A Recv Date:	861216
Part B Recv Date:	861217
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	MOD079933198
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	06000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	86

Document ID:	MOA0111086
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	861110
Trans1 Recv Date:	861110
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861112
Part A Recv Date:	861216
Part B Recv Date:	861217
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	MOD079933198
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	05900
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	86

Document ID:	MOA0111886
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	861118
Trans1 Recv Date:	861118
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	861119
Part A Recv Date:	861216

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Part B Recv Date:	861217
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	MOD079933198
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	05000
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	86

Document ID:	ARA1044470
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	H197(PC-8
Trans2 State ID:	Not reported
Generator Ship Date:	870330
Trans1 Recv Date:	870330
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870401
Part A Recv Date:	870430
Part B Recv Date:	870414
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	ARD069748192
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	43060
Units:	P - Pounds
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	87

Document ID:	MAC3190990
Manifest Status:	Completed copy
Trans1 State ID:	16666(MA)
Trans2 State ID:	Not reported
Generator Ship Date:	871214
Trans1 Recv Date:	871214
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	871216
Part A Recv Date:	871218
Part B Recv Date:	871230
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	MAD053452637
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	05500
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Container Type: TT - Cargo tank, tank trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 87

Document ID: TXA0325274
Manifest Status: Completed copy
Trans1 State ID: 40756
Trans2 State ID: Not reported
Generator Ship Date: 870727
Trans1 Recv Date: 870727
Trans2 Recv Date: Not reported
TSD Site Recv Date: 870728
Part A Recv Date: 870807
Part B Recv Date: 870810
Generator EPA ID: NYD980647952
Trans1 EPA ID: DED980918858
Trans2 EPA ID: Not reported
TSDF ID: TXD055141378
Waste Code: B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity: 05000
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 87

Document ID: ARA1054190
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: H10PC708
Trans2 State ID: Not reported
Generator Ship Date: 870723
Trans1 Recv Date: 870723
Trans2 Recv Date: Not reported
TSD Site Recv Date: 870727
Part A Recv Date: 870916
Part B Recv Date: 870805
Generator EPA ID: NYD980647952
Trans1 EPA ID: ARD069748192
Trans2 EPA ID: Not reported
TSDF ID: ARP000404000
Waste Code: B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity: 00877
Units: P - Pounds
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 87

Document ID: ARA8846900
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: H-245PC93

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Trans2 State ID:	Not reported
Generator Ship Date:	870424
Trans1 Recv Date:	870424
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870427
Part A Recv Date:	870615
Part B Recv Date:	870511
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	ARP000404000
Waste Code:	B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity:	00335
Units:	L
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00300
Units:	L
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00600
Units:	L
Number of Containers:	002
Container Type:	DW
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	87

Document ID:	ARA1044510
Manifest Status:	Completed copy
Trans1 State ID:	H197(PC-8
Trans2 State ID:	Not reported
Generator Ship Date:	870406
Trans1 Recv Date:	870406
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870408
Part A Recv Date:	870430
Part B Recv Date:	870427
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	ARD069748192
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	41660
Units:	P - Pounds
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	87

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Document ID:	TXA0325275
Manifest Status:	Completed copy
Trans1 State ID:	40756
Trans2 State ID:	Not reported
Generator Ship Date:	870721
Trans1 Recv Date:	870721
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870722
Part A Recv Date:	870803
Part B Recv Date:	870805
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	DED980918858
Trans2 EPA ID:	Not reported
TSDF ID:	TXD055141378
Waste Code:	B003 - PETROLEUM OIL WITH 500 PPM OR > PCB
Quantity:	04205
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	87

Document ID:	ILA1988215
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	1478
Trans2 State ID:	Not reported
Generator Ship Date:	880314
Trans1 Recv Date:	880314
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	880316
Part A Recv Date:	880411
Part B Recv Date:	880413
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	ILD000672121
Waste Code:	B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity:	05609
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	88

Document ID:	ARA1639950
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	H197(PC-8
Trans2 State ID:	Not reported
Generator Ship Date:	870921
Trans1 Recv Date:	870921
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	870924
Part A Recv Date:	871026

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Part B Recv Date:	871005
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	ARD069748192
Waste Code:	B003 - PETROLEUM OIL WITH 500 PPM OR > PCB
Quantity:	05795
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	87

Document ID:	ARA1662300
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	H197(PC-8
Trans2 State ID:	Not reported
Generator Ship Date:	870929
Trans1 Recv Date:	870929
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	871002
Part A Recv Date:	871030
Part B Recv Date:	871009
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	ARD069748192
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	05750
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	87

Document ID:	ILA1907077
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	1478
Trans2 State ID:	Not reported
Generator Ship Date:	871221
Trans1 Recv Date:	871221
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	871222
Part A Recv Date:	880303
Part B Recv Date:	880218
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	ILD000672121
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	05384
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Container Type: TT - Cargo tank, tank trucks
Handling Method: L Landfill.
Specific Gravity: 100
Year: 87

Document ID: ILA1907126
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 1478
Trans2 State ID: Not reported
Generator Ship Date: 871228
Trans1 Recv Date: 871228
Trans2 Recv Date: Not reported
TSD Site Recv Date: 871230
Part A Recv Date: 880222
Part B Recv Date: 880121
Generator EPA ID: NYD980647952
Trans1 EPA ID: MAD039322250
Trans2 EPA ID: Not reported
TSDF ID: ILD000672121
Waste Code: B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity: 05054
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 87

Document ID: NYA5796171
Manifest Status: Completed copy
Trans1 State ID: 280TYP(NJ
Trans2 State ID: Not reported
Generator Ship Date: 870218
Trans1 Recv Date: 870218
Trans2 Recv Date: Not reported
TSD Site Recv Date: 870220
Part A Recv Date: 870224
Part B Recv Date: 870304
Generator EPA ID: NYD980647952
Trans1 EPA ID: NJD000692061
Trans2 EPA ID: Not reported
TSDF ID: TND980729305
Waste Code: B003 - PETROLEUM OIL WITH 500 PPM OR > PCB
Quantity: 01500
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 091
Year: 87

Document ID: NYA7296453
Manifest Status: Completed copy
Trans1 State ID: 000000000

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Trans2 State ID:	000000000
Generator Ship Date:	881018
Trans1 Recv Date:	881018
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881018
Part A Recv Date:	881027
Part B Recv Date:	881024
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	NYD051809952
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	16340
Units:	P - Pounds
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	88

Document ID:	MAC4134760
Manifest Status:	Completed copy
Trans1 State ID:	670402MA
Trans2 State ID:	Not reported
Generator Ship Date:	881004
Trans1 Recv Date:	881004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881004
Part A Recv Date:	881013
Part B Recv Date:	881020
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	MAD053452637
Waste Code:	MA02 - AUTHORIZED WASTE TO CWM/MA
Quantity:	01500
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	88

Document ID:	ARA2807480
Manifest Status:	Completed copy
Trans1 State ID:	H197-PC-8
Trans2 State ID:	Not reported
Generator Ship Date:	881003
Trans1 Recv Date:	881003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881005
Part A Recv Date:	881021
Part B Recv Date:	881017
Generator EPA ID:	NYD980647952
Trans1 EPA ID:	MAD039322250

NIAGARA MOHAWK SOLVAY (Continued) **1000232807**

Trans2 EPA ID:	Not reported
TSDF ID:	ARD069748192
Waste Code:	B003 - PETROLEUM OIL WITH 500 PPM OR > PCB
Quantity:	39580
Units:	P - Pounds
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	88

Click this hyperlink while viewing on your computer to access
45 additional NY_MANIFEST: record(s) in the EDR Site Report.

AB130 **MATLOW COMPANY; INC** **SWF/LF** **S109695613**
East **333 BRIDGE SREET** **N/A**
> 1 **SYRACUSE, NY 13209**
1.662 mi.
8776 ft. **Site 2 of 2 in cluster AB**

Relative:
Lower

Actual:
384 ft.

SWF/LF:

Flag:	ACTIVE
Region Code:	7
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Vehicle Dismantling
Activity Number:	Not reported
Active:	Yes
East Coordinate:	Not reported
North Coordinate:	Not reported
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	None
Authorization Date:	Not reported
Expiration Date:	Not reported

AC131 **BALLARD CONSTRUCTION** **LTANKS** **S100494698**
East **320 BRIDGE STREET** **HIST LTANKS** **N/A**
> 1 **SOLVAY, NY**
1.669 mi.
8813 ft. **Site 1 of 3 in cluster AC**

Relative:
Lower

Actual:
386 ft.

LTANKS:

Site ID:	303627
Spill No:	9212379
Spill Date:	1/28/1993
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	3/25/1993
Facility Addr2:	Not reported
Cleanup Ceased:	3/25/1993
Cleanup Meets Standard:	True
SWIS:	3400
Investigator:	MENASH
Referred To:	Not reported
Reported to Dept:	1/28/1993
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	3/10/1993
Spill Record Last Update:	3/24/1993
Spiller Name:	Not reported
Spiller Company:	BALLARD CONSTRUCTION
Spiller Address:	320 BRIDGE STREET
Spiller City,St,Zip:	SOLVAY, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	245307
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MN" 03/10/93: CONTAMINATED SOIL STAGED ON SITE.
Remarks:	TANK PULL.

Material:

Site ID:	303627
Operable Unit ID:	979389
Operable Unit:	01
Material ID:	402232
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

BALLARD CONSTRUCTION (Continued) **S100494698**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	9212379
Spill Date:	01/28/1993
Spill Time:	08:00
Spill Cause:	Tank Failure
Resource Affectd:	Groundwater
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	03/25/93
Cleanup Ceased:	03/25/93
Cleanup Meets Standard:	True
Investigator:	MN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	01/28/93
Reported to Department Time:	00:83
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	BALLARD CONSTRUCTION
Spiller Address:	320 BRIDGE STREET
Spiller City,St,Zip:	SOLVAY, NEW YORK
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True

BALLARD CONSTRUCTION (Continued) **S100494698**

Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 03/10/93
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 03/24/93
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 03/10/93: CONTAMINATED SOIL STAGED ON SITE.
Spill Cause: TANK PULL.

AC132 **CRUSHED PRODUCTS; INC.** **SWF/LF** **S105841286**
East **320 BRIDGE STREET** **N/A**
> 1 **SYRACUSE, NY 13209**
1.670 mi.
8819 ft. **Site 2 of 3 in cluster AC**

Relative:
Lower

Actual:
386 ft.

SWF/LF:
Flag: ACTIVE
Region Code: 7
Phone Number: 3154686225
Owner Name: Crushed Products Inc.
Owner Type: Private
Owner Address: 320 Bridge Street
Owner Addr2: Not reported
Owner City,St,Zip: Syracuse, NY 13209
Owner Email: Not reported
Owner Phone: 3154686225
Contact Name: Richard L. Ranieri
Contact Address: Not reported
Contact Addr2: Not reported
Contact City,St,Zip: Not reported
Contact Email: rranieri@ballardsports.com
Contact Phone: 3154686225
Activity Desc: C&D processing - registered
Activity Number: 34W02
Active: Yes
East Coordinate: 400896
North Coordinate: 4769048

CRUSHED PRODUCTS; INC. (Continued) **S105841286**

Accuracy Code: 4.3 - Utilization of Digital Orthophoto Quads
Regulatory Status: Registration
Waste Type: Concrete;Brick;Rock
Authorization #: Not reported
Authorization Date: 5/30/1995
Expiration Date: Not reported

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133 **SYRACUSE POTTERY** **LTANKS** **S100158384**
WNW **SYRACUSE POTTERY RD** **HIST LTANKS** **N/A**
> 1 **AMBOY, NY**
1.678 mi.
8862 ft.

Relative:
Higher

Actual:
454 ft.

LTANKS:

Site ID:	264256
Spill No:	9001526
Spill Date:	5/1/1990
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Spill Closed Dt:	5/23/1990
Facility Addr2:	Not reported
Cleanup Ceased:	5/9/1990
Cleanup Meets Standard:	True
SWIS:	3400
Investigator:	ROMOCKI
Referred To:	Not reported
Reported to Dept:	5/9/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Citizen
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	5/21/1990
Spill Record Last Update:	6/5/1990
Spiller Name:	Not reported
Spiller Company:	SYRACUSE POTTERY
Spiller Address:	6551 POTTERY RD.
Spiller City,St,Zip:	WARNERS, NY 13164
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	215377
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MR" 05/23/90: CALLER OBSERVED BUCKET DANGLING FROM FILL PIPE AND ASSUMED THE PIPE WAS LEAKING. WHEN INVESTIGATING IT WAS OBSERVED THAT THE BUCKET WAS FILLED WITH WATER. THE HAD REPAIRED THE LEAK PREVIOUSLY.
Remarks:	CALLER OBSERVED LEAKING AG TANK AT SYRACUSE POTTERY.

Material:

Site ID:	264256
Operable Unit ID:	941287

SYRACUSE POTTERY (Continued) **S100158384**

Operable Unit: 01
Material ID: 439862
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

HIST LTANKS:
Region of Spill: 7
Spill Number: 9001526
Spill Date: 05/01/1990
Spill Time: 12:00
Spill Cause: Tank Failure
Resource Affectd: On Land
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: Not reported
Spill Closed Dt: 05/23/90
Cleanup Ceased: 05/09/90
Cleanup Meets Standard: True
Investigator: MR
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 05/09/90
Reported to Department Time: 09:18
SWIS: 31
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: SYRACUSE POTTERY
Spiller Address: 6551 POTTERY RD.
Spiller City,St,Zip: WARNERS, NY 13164

SYRACUSE POTTERY (Continued) **S100158384**

Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (315) 487-6066
Facility Extention: Not reported
Spill Notifier: Citizen
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 05/21/90
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 06/05/90
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 05/23/90: CALLER OBSERVED BUCKET DANGLING FROM FILL PIPE AND ASSUMED THE PIPE WAS LEAKING. WHEN INVESTIGATING IT WAS OBSERVED THAT THE BUCKET WAS FILLED WITH WATER. THE HAD REPAIRED THE LEAK PREVIOUSLY.
Spill Cause: CALLER OBSERVED LEAKING AG TANK AT SYRACUSE POTTERY.

AA134 **LCP (AGAIN)** **LTANKS** **S100127515**
ESE **SOUTH STORAGE AREA** **HIST LTANKS** **N/A**
> 1 **SOLVAY, NY**
1.679 mi.
8864 ft. **Site 2 of 3 in cluster AA**

Relative: Higher

Actual: 403 ft.

LTANKS:
Site ID: 117866
Spill No: 8803668
Spill Date: 7/27/1988
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Not reported
Spill Closed Dt: 7/27/1988
Facility Addr2: Not reported

LCP (AGAIN) (Continued) **S100127515**

Cleanup Ceased:	7/27/1988
Cleanup Meets Standard:	True
SWIS:	3400
Investigator:	CSCUIPLY
Referred To:	Not reported
Reported to Dept:	7/27/1988
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	LCP
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	102469
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CC"
Remarks:	CONTAINED NO DEC ACTION REQUIRED. SPILL CLOSED.

Material:

Site ID:	117866
Operable Unit ID:	918829
Operable Unit:	01
Material ID:	459208
Material Code:	1287A
Material Name:	NAOH (SODIUM HYDROXIDE)
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	117866
Operable Unit ID:	918829
Operable Unit:	01
Material ID:	459207
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

LCP (AGAIN) (Continued) **S100127515**

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	8803668
Spill Date:	07/27/1988
Spill Time:	01:50
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Not reported
Spill Closed Dt:	07/27/88
Cleanup Ceased:	07/27/88
Cleanup Meets Standard:	True
Investigator:	CC
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	07/27/88
Reported to Department Time:	16:47
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	LCP
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False

Date Region Sent Summary to Central Office: / /

LCP (AGAIN) (Continued) **S100127515**

Corrective Action Plan Submitted: / /
Date Spill Entered In Computer Data File: 08/09/88
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: / /
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Hazardous Material
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Not reported
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: NAOH (SODIUM HYDROXIDE)
Class Type: NAOH (SODIUM HYDROXIDE)
Times Material Entry In File: 23
CAS Number: Not reported
Last Date: Not reported
Material Class Type: Petroleum
Quantity Spilled: 50
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: UNKNOWN PETROLEUM
Class Type: UNKNOWN PETROLEUM
Times Material Entry In File: 16414
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: CONTAINED NO DEC ACTION REQUIRED. SPILL CLOSED.

AA135 **LCP CAUSTIC TANK** **LTANKS** **S101485934**
ESE **MATHEWS AVE** **HIST LTANKS** **N/A**
> 1 **SOLVAY, NY**
1.679 mi.
8864 ft. **Site 3 of 3 in cluster AA**

Relative:
Higher

Actual:
403 ft.

LTANKS:
Site ID: 142364
Spill No: 8805243
Spill Date: 9/17/1988
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Not reported
Spill Closed Dt: 9/18/1988
Facility Addr2: Not reported
Cleanup Ceased: 9/18/1988
Cleanup Meets Standard: True
SWIS: 3400

LCP CAUSTIC TANK (Continued) **S101485934**

Investigator:	VOLLMER
Referred To:	Not reported
Reported to Dept:	9/17/1988
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	9/29/1988
Spill Record Last Update:	10/19/1988
Spiller Name:	Not reported
Spiller Company:	LCP CHEMICALS
Spiller Address:	MATHEWS AVE
Spiller City,St,Zip:	SOLVAY, NY 13209
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	169340
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DV" 09/17/88: 300000 GALLON TANK LEAKING 6'ABOVE GROUND APPROX 1 GPM. EOI ON SITE VACUUMING LEAKAGE. 28' OF CAUSTIC IN TANK. PUMPING OUT AT 1-2 FT PER HOUR. 09/18/88: TANK EMPTIED BY 1900 HRS. WILL SUBMIT REPORT PER CBS REGS. 10/19/88: TANK EMPTIED.
Remarks:	STORAGE TANK LEAK. WILL COLLECT ALL MATERIAL THAT FALLS ON GROUND

Material:

Site ID:	142364
Operable Unit ID:	922344
Operable Unit:	01
Material ID:	457152
Material Code:	1287A
Material Name:	NAOH (SODIUM HYDROXIDE)
Case No.:	Not reported
Material FA:	Other
Quantity:	1500
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

LCP CAUSTIC TANK (Continued) **S101485934**

HIST LTANKS:

Region of Spill:	7
Spill Number:	8805243
Spill Date:	09/17/1988
Spill Time:	17:00
Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Other Commercial/Industrial
Spill Class:	Not reported
Spill Closed Dt:	09/18/88
Cleanup Ceased:	09/18/88
Cleanup Meets Standard:	True
Investigator:	DV
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	09/17/88
Reported to Department Time:	20:13
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	LCP CHEMICALS
Spiller Address:	MATHEWS AVE
Spiller City,St,Zip:	SOLVAY, NY 13209
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	(315) 487-4741
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	False
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	09/29/88
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	10/19/88
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

LCP CAUSTIC TANK (Continued) **S101485934**

Material:
- Material Class Type: Hazardous Material
- Quantity Spilled: 1500
- Unkonwn Quantity Spilled: False
- Units: Pounds
- Quantity Recovered: 0
- Unkonwn Quantity Recovered: False
- Material: NAOH (SODIUM HYDROXIDE)
- Class Type: NAOH (SODIUM HYDROXIDE)
- Times Material Entry In File: 23
- CAS Number: Not reported
- Last Date: Not reported
- DEC Remarks: 09/17/88: 300000 GALLON TANK LEAKING 6 ABOVE GROUND APPROX 1 GPM. EOI ON SITE VACUUMING LEAKAGE. 28 OF CAUSTIC IN TANK. PUMPING OUT AT 1-2 FT PER HOUR. 09/18/88: TANK EMPTIED BY 1900 HRS. WILL SUBMIT REPORT PER CBS REGS. 10/19/88: TANK EMPTIED.
- Spill Cause: STORAGE TANK LEAK. WILL COLLECT ALL MATERIAL THAT FALLS ON GROUND

AC136 **ONONDAGA COGENERATION LTD PART** **RCRA-NonGen** **1000889971**
ESE **300 BRIDGE ST** **FINDS** **NY0000202135**
> 1 **SYRACUSE, NY 13209** **HIST AST**
1.682 mi. **BROWNFIELDS**
8879 ft. **Site 3 of 3 in cluster AC**

Relative:
Lower

Actual:
388 ft.

RCRA-NonGen:
- Date form received by agency: 01/01/2007
- Facility name: ONONDAGA COGENERATION LTD PART
- Facility address: 300 BRIDGE ST
  SYRACUSE, NY 13209
- EPA ID: NY0000202135
- Mailing address: BRIDGE ST
  SYRACUSE, NY 13209
- Contact: KEVIN COLLINS
- Contact address: BRIDGE ST
  SYRACUSE, NY 13209
- Contact country: US
- Contact telephone: (315) 488-6543
- Contact email: Not reported
- EPA Region: 02
- Classification: Non-Generator
- Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
- Owner/operator name: ONONDAGA COGENERATION LTD PART
- Owner/operator address: ONE UPPER POND RD
  PARSIPPANY, NJ 07054
- Owner/operator country: US
- Owner/operator telephone: (201) 263-6913
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

- Owner/operator name: ONONDAGA COGENERATION LTD PART
- Owner/operator address: ONE UPPER POND RD
  PARSIPPANY, NJ 07054
- Owner/operator country: US

ONONDAGA COGENERATION LTD PART (Continued) **1000889971**

Owner/operator telephone: (201) 263-6913
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: No
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: ONONDAGA COGENERATION LTD PART
Classification: Not a generator, verified

Date form received by agency: 04/06/1994
Facility name: ONONDAGA COGENERATION LTD PART
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110000325639

Environmental Interest/Information System
Not reported

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

CAMDBS (Clean Air Markets Division Business System) is a national information system that supports the implementation of market-based

ONONDAGA COGENERATION LTD PART (Continued) **1000889971**

air pollution control programs administered by the Clean Air Markets Division, within the Office of Air and Radiation. These programs include the Acid Rain Program, established by Title IV of the Clean Air Act Amendments of 1990, and regional programs designed reduce the transport of ozone. These emissions trading programs allows regulated facilities (primarily electric utilities) to adopt the most cost-effective strategies to reduce emissions at their units. Units that reduce their emissions below the number of allowances they hold -- each allowance is equivalent to one ton of sulfur dioxide or nitrogen oxides -- may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. CAMDBS functions include registering responsible officials, establishing allowance accounts, reporting hourly emissions data, and transferring allowances between accounts.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company that generates electricity in the United States.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and

ONONDAGA COGENERATION LTD PART (Continued) **1000889971**

it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

HIST AST:

PBS Number:	7-600185
SWIS Code:	3132
Operator:	GREG STONE
Facility Phone:	(315) 488-6543
Facility Addr2:	Not reported
Facility Type:	UTILITY
Emergency:	GREG STONE
Emergency Tel:	(315) 598-3228
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	ONONDAGA COGENERATION LTD. PARTNERSHIP
Owner Address:	ONE UPPER POND RD.
Owner City,St,Zip:	PARSIPPANY, NJ 07054
Federal ID:	Not reported
Owner Tel:	(973) 263-6913
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	THOMAS GRACE
Mailing Name:	ONONDAGA COGENERATION LTD. PARTNERSHIP
Mailing Address:	C\\O AQUILA
Mailing Address 2:	ONE UPPER POND RD.
Mailing City,St,Zip:	PARSIPPANY, NJ 07054
Mailing Telephone:	(973) 263-6913
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	01/23/2001
Expiration:	07/12/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	375535
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data

ONONDAGA COGENERATION LTD PART (Continued) **1000889971**

Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	GEDDES
County Code:	31
Town or City Code:	32
Region:	7
Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	19930701
Capacity (Gal):	375000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	1
Tank External:	01
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	31
Tank Containment:	58
Leak Detection:	05
Overfill Protection:	24
Dispenser Method:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	0-231860
Lat/Long:	Not reported
Tank ID:	002
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	19930701
Capacity (Gal):	285
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	01
Tank Containment:	08
Leak Detection:	00
Overfill Protection:	04
Dispenser Method:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported

ONONDAGA COGENERATION LTD PART (Continued) **1000889971**

Test Method: Not reported
Deleted: False
Updated: True
SPDES Number: 0-231860
Lat/Long: Not reported

Tank ID: 003
Tank Location: ABOVEGROUND
Tank Status: In Service
Install Date: 19940201
Capacity (Gal): 250
Product Stored: NOS 1,2, OR 4 FUEL OIL
Tank Type: Other
Tank Internal: 0
Tank External: 01
Pipe Location: Aboveground
Pipe Type: STEEL/IRON
Pipe Internal: None
Pipe External: 01
Tank Containment: 08
Leak Detection: 06
Overfill Protection: 49
Dispenser Method: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: No Missing Data
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: True
SPDES Number: 0-231860
Lat/Long: Not reported

BROWNFIELDS:
Program: BCP
Site Code: 416454
Site Description: This is a new BCP Application that pertains to the property located at 300 and 320 Bridge Street, Syracuse, Onondaga County. This site is approximately 14.77 acres in size. The site is currently idle and is in an area that is known for heavy industrial use dating back to the late 1800s. The intended use is industrial. Known or suspected contaminants at this site are petroleum, chlorinated solvents, SVOCs, metals, and PCBs. These contaminants are potentially impacting the soil and groundwater. Soil gas is also a concern. This BCP Application is currently under review and the Department of Environmental Conservation will determine the eligibility.
Env Problem: Information submitted with the BCP application regarding the environmental conditions at the site are currently under review and will be revised as additional information becomes available. More information regarding the site can be found in the documents placed in the Site Document Repository.
Health Problem: Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available.

137
East
> 1
1.733 mi.
9152 ft.

CARBONE PONTIAC
HIAWATHA & STATE FAIR
SYRACUSE, NY

LTANKS **S105054357**
HIST LTANKS **N/A**

Relative:
Lower

Actual:
376 ft.

LTANKS:

Site ID:	118566
Spill No:	9011029
Spill Date:	1/16/1991
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	1/31/1991
Facility Addr2:	Not reported
Cleanup Ceased:	1/31/1991
Cleanup Meets Standard:	True
SWIS:	3415
Investigator:	ROMOCKI
Referred To:	Not reported
Reported to Dept:	1/16/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	DEC
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1/26/1991
Spill Record Last Update:	1/31/1991
Spiller Name:	Not reported
Spiller Company:	CARBONE PONT
Spiller Address:	959 W HIAWATHA
Spiller City,St,Zip:	SYRACUSE, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	103034
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MR" 01/31/91: CONTAMINATED SOIL EXCAVATED FROM TANK AREA. CLAY SURROUNDING TANKS APPEARED TO CONTAIN SPILL.
Remarks:	CONTAMINATED SOIL SEEN AT TANK REMOVAL.

Material:

Site ID:	118566
Operable Unit ID:	951226
Operable Unit:	01
Material ID:	431124
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	5
Resource Affected:	Not reported

CARBONE PONTIAC (Continued) **S105054357**

Oxygenate: False

Tank Test:
Site ID: Not reported
Spill Tank Test: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate: Not reported
Gross Fail: Not reported
Modified By: Not reported
Last Modified: Not reported
Test Method: Not reported

HIST LTANKS:
Region of Spill: 7
Spill Number: 9011029
Spill Date: 01/16/1991
Spill Time: 13:00
Spill Cause: Tank Failure
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Other Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 01/31/91
Cleanup Ceased: 01/31/91
Cleanup Meets Standard: True
Investigator: MR
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 01/16/91
Reported to Department Time: 15:00
SWIS: 31
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: CARBONE PONT
Spiller Address: 959 W HIAWATHA
Spiller City,St,Zip: SYRACUSE, NY
Spiller Cleanup Date: 01/17/91
Facility Contact: Not reported
Facility Phone: (315) 474-4855
Facility Extention: Not reported
Spill Notifier: DEC
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /

CARBONE PONTIAC (Continued) **S105054357**

Investigation Complete: 01/25/91
UST Involvement: True
Date Region Sent Summary to Central Office: / /
Corrective Action Plan Submitted: 01/25/91
Date Spill Entered In Computer Data File: 01/26/91
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 01/31/91
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 10
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 5
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 01/31/91: CONTAMINATED SOIL EXCAVATED FROM TANK AREA. CLAY SURROUNDING TANKS APPEARED TO CONTAIN SPILL.
Spill Cause: CONTAMINATED SOIL SEEN AT TANK REMOVAL.

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138 ESE > 1 1.736 mi. 9164 ft. **MILTON AVE** **LTANKS S102677565**
2239 MILTON AVE. **HIST LTANKS N/A**
SOLVAY, NY

Relative: Higher

Actual: 434 ft.

LTANKS:
Site ID: 144771
Spill No: 8607187
Spill Date: 2/24/1987
Spill Cause: Tank Overfill
Spill Source: Gasoline Station
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: 2/27/1996
Facility Addr2: Not reported
Cleanup Ceased: 2/20/1996
Cleanup Meets Standard: False
SWIS: 3400
Investigator: RJBRAZEL
Referred To: Not reported
Reported to Dept: 2/24/1987
CID: Not reported
Water Affected: Not reported
Spill Notifier: Local Agency

MILTON AVE (Continued) **S102677565**

Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	3/5/1987
Spill Record Last Update:	3/29/2005
Spiller Name:	Not reported
Spiller Company:	JOHN F. PALLOTTA
Spiller Address:	2123 MILTON AVE.
Spiller City,St,Zip:	SOLVAY, NY 13209
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	123393
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "RB" / / : RATION. . AUTO-SKIMMER BAILED WELL TILL NO PRODUCT REMAINS. RE-INJECT WATER TO RECOVERY WELL FOR CONVENIENCE. NO DRAWDOWN. NO PRODUCT INFILT. / / : RATION. . POLLUTION ENTERPRISES, INC. HIRED ON 04/02/87 WATER TO RECOVERY WELL FOR CONVENIENCE. NO DRAWDOWN. NO PRODUCT INFILT. 04/20/91: SITE VISIT IS NEEDED TO SEE IF BUILDINGS NEXT DOOR ARE BEING IMPACTED. SPILLER DENIED ACCESS TO HIS PROPERTY ON 2/8/90. 03/02/00:FINAL ISR SENT TO ALBANY
Remarks:	GAS ODOR IN BASEMENT. RECOVER SYSTEM INACTIVE AT MOBIL STATION WITH 2-1/2" PRODUCT ON SURFACE. FANNY ASCOTTI, CITIZEN 468-6863.

Material:

Site ID:	144771
Operable Unit ID:	903861
Operable Unit:	01
Material ID:	562493
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	True
Site ID:	144771
Operable Unit ID:	903861
Operable Unit:	01
Material ID:	572217
Material Code:	1213A
Material Name:	MTBE (METHYL-TERT-BUTYL ETHER)
Case No.:	01634044
Material FA:	Hazardous Material
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	True

Tank Test:

MILTON AVE (Continued) **S102677565**

Site ID: 144771
Spill Tank Test: 1530598
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

HIST LTANKS:
Region of Spill: 7
Spill Number: 8607187
Spill Date: 02/24/1987
Spill Time: 12:00
Spill Cause: Tank Overfill
Resource Affectd: Groundwater
Water Affected: Not reported
Spill Source: Gas Station
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Spill Closed Dt: 02/27/96
Cleanup Ceased: 02/20/96
Cleanup Meets Standard: False
Investigator: RB
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Caller Extension: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Notifier Extension: Not reported
Reported to Department Date: 02/24/87
Reported to Department Time: 12:00
SWIS: 31
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
Spiller Name: JOHN F. PALLOTTA
Spiller Address: 2123 MILTON AVE.
Spiller City,St,Zip: SOLVAY, NY 13209
Spiller Cleanup Date: / /
Facility Contact: Not reported
Facility Phone: (315) 488-6905
Facility Extention: Not reported
Spill Notifier: Local Agency
PBS Number: Not reported
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Enforcement Date: / /
Investigation Complete: / /
UST Involvement: True
Date Region Sent Summary to Central Office: 02/02/94
Corrective Action Plan Submitted: / /

MILTON AVE (Continued) **S102677565**

Date Spill Entered In Computer Data File: 03/05/87
Time Spill Entered In Computer Data File: Not reported
Spill Record Last Update: 03/03/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 0
Unkonwn Quantity Spilled: False
Units: Pounds
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: / / : RATION. . AUTO-SKIMMER BAILED WELL TILL NO PRODUCT REMAINS. RE-INJECT WATER TO RECOVERY WELL FOR CONVENIENCE. NO DRAWDOWN. NO PRODUCT INFILT. / / : RATION. . POLLUTION ENTERPRISES, INC. HIRED ON 04/02/87 WATER TO RECOVERY WELL FOR CONVENIENCE. NO DRAWDOWN. NO PRODUCT INFILT. 04/20/91: SITE VISIT IS NEEDED TO SEE IF BUILDINGS NEXT DOOR ARE BEING IMPACTED. SPILLER DENIED ACCESS TO HIS PROPERTY ON 2/8/90. 03/02/00:FINAL ISR SENT TO ALBANY
Spill Cause: GAS ODOR IN BASEMENT. RECOVER SYSTEM INACTIVE AT MOBIL STATION WITH 2-1/2 PRODUCT ON SURFACE. FANNY ASCOTTI, CITIZEN 468-6863.

AD139 **QUICKWAY** **LTANKS** **1002615927**
North **915 STATE FAIR BLVD** **HIST LTANKS** **N/A**
> 1 **SYRACUSE, NY** **NY Spills**
1.739 mi. **NY Hist Spills**
9182 ft. **Site 1 of 3 in cluster AD**

Relative:
Higher

Actual:
422 ft.

LTANKS:
Site ID: 75900
Spill No: 0005833
Spill Date: 8/15/2000
Spill Cause: Tank Failure
Spill Source: Gasoline Station
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 8/15/2000
Facility Addr2: Not reported
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 3415
Investigator: BFMATTHE
Referred To: Not reported
Reported to Dept: 8/15/2000
CID: 281
Water Affected: Not reported

QUICKWAY (Continued) **1002615927**

Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	8/15/2000
Spill Record Last Update:	8/17/2000
Spiller Name:	Not reported
Spiller Company:	CUSTOMER
Spiller Address:	UNK
Spiller City,St,Zip:	UNK, ZZ
Spiller County:	001
Spiller Contact:	JOHN GARRISON
Spiller Phone:	(315) 487-9157
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	71017
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "BM" 08/15/00: NO DRAINS OR WATERWAYS AFFECTED. SPEEDI-DRY PUT DOWN BY FD- CLEANED UP BY QUICKWAY AND DISPOSED OF BY FD.
Remarks:	CUSTOMER OVERFILLED TANK AT ABOVE LOCATION. FIRE DEPT RESPONDED AND ALL MATERIAL WAS RECOVERED. NO CALL BACK REQUESTED.

Material:

Site ID:	75900
Operable Unit ID:	826805
Operable Unit:	01
Material ID:	546976
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	2
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	0005833
Spill Date:	08/15/2000
Spill Time:	10:45

QUICKWAY (Continued) **1002615927**

Spill Cause:	Tank Failure
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt:	08/15/00
Cleanup Ceased:	/ /
Cleanup Meets Standard:	False
Investigator:	BM
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	08/15/00
Reported to Department Time:	15:00
SWIS:	31
Spiller Contact:	JOHN GARRISON
Spiller Phone:	(315) 487-9157
Spiller Extention:	Not reported
Spiller Name:	CUSTOMER
Spiller Address:	UNK
Spiller City,St,Zip:	UNK
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Affected Persons
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	08/15/00
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	08/17/00
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	2
Unkonwn Quantity Spilled:	False

QUICKWAY (Continued) **1002615927**

Units: Gallons
Quantity Recovered: 2
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: 08/15/00: NO DRAINS OR WATERWAYS AFFECTED. SPEEDI-DRY PUT DOWN BY FD- CLEANED UP BY QUICKWAY AND DISPOSED OF BY FD.
Spill Cause: CUSTOMER OVERFILLED TANK AT ABOVE LOCATION. FIRE DEPT RESPONDED AND ALL MATERIAL WAS RECOVERED. NO CALL BACK REQUESTED.

NY Spills:
Site ID: 75901
Facility Addr2: Not reported
Facility ID: 0007405
Spill Number: 0007405
Facility Type: ER
SWIS: 3415
Investigator: CXROSSI
Referred To: Not reported
Spill Date: 9/24/2000
Reported to Dept: 9/24/2000
CID: 389
Spill Cause: Equipment Failure
Water Affected: Not reported
Spill Source: Gasoline Station
Spill Notifier: Fire Department
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: 9/25/2000
Recommended Penalty: Penalty Not Recommended
UST Trust: True
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 6/3/2002
Remediation Phase: 0
Date Entered In Computer: 9/24/2000
Spill Record Last Update: 6/3/2002
Spiller Name: KAPLOW
Spiller Company: BRUCE KAPLOW
Spiller Address: 74 DEVOE RD
Spiller City,St,Zip: CHEPPAQUA, NY 10514-
Spiller Company: 001
Contact Name: DAN HENKEN
Contact Phone: (607) 561-2720
DEC Region: 7
DER Facility ID: 71017
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "CTR" REFERRED TO LAW ENFORCEMENT. CASE ASSIGNED TO DONK. STORE HIRED OPTEC TO CONTINUE CLEAN UP. STORE WILL SEEK REIMBURSEMENT FROM SPILLER.
Remarks: caller reporting a spill of material from possibly a pump unk exactly at this time product is contained and no callback is necessary

Material:

QUICKWAY (Continued) **1002615927**

Site ID:	75901
Operable Unit ID:	830039
Operable Unit:	01
Material ID:	544945
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15
Units:	Gallons
Recovered:	15
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	0007405
Investigator:	CTR
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	09/24/2000 16:19
Reported to Dept Date/Time:	09/24/00 16:45
SWIS:	31
Spiller Name:	BRUCE KAPLOW
Spiller Contact:	KAPLOW
Spiller Phone:	(914) 238-9230
Spiller Contact:	DAN HENKEN
Spiller Phone:	(607) 561-2720
Spiller Address:	74 DEVOE RD
Spiller City,St,Zip:	CHEPPAQUA, NY 10514-
Spill Cause:	Equipment Failure
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	05
Spill Notifier:	Fire Department
PBS Number:	Not reported
Cleanup Ceased:	/ /
Cleanup Meets Std:	False
Last Inspection:	09/25/00

QUICKWAY (Continued) **1002615927**

Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: True
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: / /
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 09/24/00
Date Spill Entered In Computer Data File: Not reported
Update Date: 09/29/00
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 15
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 15
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: REFERRED TO LAW ENFORCEMENT. CASE ASSIGNED TO DONK. STORE HIRED OPTEC TO CONTINUE CLEAN UP. STORE WILL SEEK REIMBURSEMENT FROM SPILLER.
Remark: caller reporting a spill of material from possibly a pump unk exactly at this time product is contained and no callback is necessary

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AD140 **DORCO** **LTANKS** **S102166935**
North **915 STATE FAIR BLVD** **HIST LTANKS** **N/A**
> 1 **SYRACUSE, NY** **NY Spills**
1.739 mi. **NY Hist Spills**
9182 ft. **Site 2 of 3 in cluster AD**

Relative:
Higher

Actual:
422 ft.

LTANKS:
Site ID: 75903
Spill No: 9008054
Spill Date: 10/24/1990
Spill Cause: Tank Overfill
Spill Source: Gasoline Station
Spill Class: Not reported
Spill Closed Dt: 10/24/1990
Facility Addr2: Not reported
Cleanup Ceased: 10/24/1990
Cleanup Meets Standard: True
SWIS: 3415
Investigator: MENASH

DORCO (Continued) **S102166935**

Referred To:	Not reported
Reported to Dept:	10/24/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	GULF SERVICE STATION
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	71017
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MN"
Remarks:	M&M ENTERPRISE OVERFILLED TANK. PADS AND SPEEDI DRY APPLIED.

Material:

Site ID:	75903
Operable Unit ID:	945258
Operable Unit:	01
Material ID:	431885
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	9008054

DORCO (Continued) **S102166935**

Spill Date:	10/24/1990
Spill Time:	07:40
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Gas Station
Spill Class:	Not reported
Spill Closed Dt:	10/24/90
Cleanup Ceased:	10/24/90
Cleanup Meets Standard:	True
Investigator:	MN
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	10/24/90
Reported to Department Time:	08:10
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	GULF SERVICE STATION
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	10/25/90
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	/ /
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	0

DORCO (Continued) **S102166935**

Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 0
Unkonwn Quantity Recovered: False
Material: DIESEL
Class Type: DIESEL
Times Material Entry In File: 10625
CAS Number: Not reported
Last Date: 19940728
DEC Remarks: Not reported
Spill Cause: M M ENTERPRISE OVERFILLED TANK. PADS AND SPEEDI DRY APPLIED.

NY Spills:
Site ID: 226675
Facility Addr2: Not reported
Facility ID: 9012259
Spill Number: 9012259
Facility Type: ER
SWIS: 3415
Investigator: ROMOCKI
Referred To: Not reported
Spill Date: 2/26/1991
Reported to Dept: 2/26/1991
CID: Not reported
Spill Cause: Human Error
Water Affected: Not reported
Spill Source: Gasoline Station
Spill Notifier: Responsible Party
Cleanup Ceased: 2/26/1991
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: Penalty Not Recommended
UST Trust: False
Spill Class: Not reported
Spill Closed Dt: 2/28/1991
Remediation Phase: 0
Date Entered In Computer: 2/26/1991
Spill Record Last Update: 2/28/1991
Spiller Name: Not reported
Spiller Company: DORCO
Spiller Address: 21 DWIGHT PARK DR.
Spiller City,St,Zip: SYRACUSE, NY
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Region: 7
DER Facility ID: 71017
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MR" 02/28/91: CLEAN UP BY A CREW FROM DORCO CAME TO THE STATION TO CLEAN UP THE SPEEDI-DRY PUT DOWN BY THE FIRE DEPT.
Remarks: OVERFILL AT GAS STATION BY DRIVER.

Material:
Site ID: 226675
Operable Unit ID: 949277
Operable Unit: 01
Material ID: 428764

DORCO (Continued) **S102166935**

Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	4
Units:	Gallons
Recovered:	4
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

NY Hist Spills:

Region of Spill:	7
Spill Number:	9012259
Investigator:	MR
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Spill Date/Time:	02/26/1991 07:45
Reported to Dept Date/Time:	02/26/91 08:08
SWIS:	31
Spiller Name:	DORCO
Spiller Contact:	Not reported
Spiller Phone:	(315) 453-7733
Spiller Address:	21 DWIGHT PARK DR.
Spiller City,St,Zip:	SYRACUSE, NY
Spill Cause:	Human Error
Reported to Dept:	On Land
Water Affected:	Not reported
Spill Source:	05
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Cleanup Ceased:	02/26/91
Cleanup Meets Std:	True
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Spiller Cleanup Dt:	/ /
Enforcement Date:	/ /
Invstgn Complete:	/ /
UST Involvement:	False
Spill Class:	Not reported

DORCO (Continued) **S102166935**

Spill Closed Dt: 02/28/91
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 02/26/91
Date Spill Entered In Computer Data File: Not reported
Update Date: 02/28/91
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 4
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 4
Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 02/28/91: CLEAN UP BY A CREW FROM DORCO CAME TO THE STATION TO CLEAN UP THE SPEEDI-DRY PUT DOWN BY THE FIRE DEPT.
Remark: OVERFILL AT GAS STATION BY DRIVER.

AD141 **MAHIMA ONE CORP** **LTANKS** **U003313683**
North **915 STATE FAIR BLVD** **HIST LTANKS** **N/A**
> 1 **SYRACUSE, NY 13209** **UST**
1.739 mi. **HIST UST**
9182 ft. **Site 3 of 3 in cluster AD** **AST**
NY Spills
Relative: Higher **NY Hist Spills**

Actual: 422 ft.

LTANKS:
Site ID: 75902
Spill No: 8906547
Spill Date: 10/4/1989
Spill Cause: Tank Overfill
Spill Source: Passenger Vehicle
Spill Class: Not reported
Spill Closed Dt: 10/4/1989
Facility Addr2: Not reported
Cleanup Ceased: 10/4/1989
Cleanup Meets Standard: True
SWIS: 3415
Investigator: GREGG
Referred To: Not reported
Reported to Dept: 10/4/1989
CID: Not reported
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported

MAHIMA ONE CORP (Continued) **U003313683**

Recommended Penalty:	Penalty Not Recommended
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	Not reported
Spill Record Last Update:	12/2/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	7
DER Facility ID:	71017
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TG"
Remarks:	PUMP DID NOT SHUT OFF. CLEANED UP W/ SPEEDI DRY. NO ENVIR PROBLEM.

Material:

Site ID:	75902
Operable Unit ID:	934327
Operable Unit:	01
Material ID:	446960
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

HIST LTANKS:

Region of Spill:	7
Spill Number:	8906547
Spill Date:	10/04/1989
Spill Time:	06:30
Spill Cause:	Tank Overfill
Resource Affectd:	On Land
Water Affected:	Not reported
Spill Source:	Passenger Vehicle

MAHIMA ONE CORP (Continued) **U003313683**

Spill Class:	Not reported
Spill Closed Dt:	10/04/89
Cleanup Ceased:	10/04/89
Cleanup Meets Standard:	True
Investigator:	TG
Caller Name:	Not reported
Caller Agency:	Not reported
Caller Phone:	Not reported
Caller Extension:	Not reported
Notifier Name:	Not reported
Notifier Agency:	Not reported
Notifier Phone:	Not reported
Notifier Extension:	Not reported
Reported to Department Date:	10/04/89
Reported to Department Time:	06:38
SWIS:	31
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
Spiller Name:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Cleanup Date:	/ /
Facility Contact:	Not reported
Facility Phone:	Not reported
Facility Extention:	Not reported
Spill Notifier:	Responsible Party
PBS Number:	Not reported
Last Inspection:	/ /
Recommended Penalty:	Penalty Not Recommended
Enforcement Date:	/ /
Investigation Complete:	/ /
UST Involvement:	True
Date Region Sent Summary to Central Office:	/ /
Corrective Action Plan Submitted:	/ /
Date Spill Entered In Computer Data File:	11/07/89
Time Spill Entered In Computer Data File:	Not reported
Spill Record Last Update:	/ /
Is Updated:	False

Tank:

PBS Number:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate Failed Tank:	Not reported
Gross Leak Rate:	Not reported

Material:

Material Class Type:	Petroleum
Quantity Spilled:	1
Unkonwn Quantity Spilled:	False
Units:	Gallons
Quantity Recovered:	0
Unkonwn Quantity Recovered:	False
Material:	GASOLINE
Class Type:	GASOLINE

MAHIMA ONE CORP (Continued) **U003313683**

Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: Not reported
Spill Cause: PUMP DID NOT SHUT OFF. CLEANED UP W/ SPEEDI DRY. NO ENVIR PROBLEM.

UST:
Facility Id: 7-431044
Region: STATE
DEC Region: 7
Site Status: Active
Program Type: PBS
Expiration Date: 2013/08/25
UTM X: 398713.81588000001
UTM Y: 4772157.9767899998

Affiliation Records:
Site Id: 45873
Affiliation Type: Mail Contact
Company Name: MAHIMA ONE CORP
Contact Type: Not reported
Contact Name: JAY PATEL
Address1: 915 STATE FAIR BLVD
Address2: Not reported
City: SYRACUSE
State: NY
Zip Code: 13209
Country Code: 001
Phone: (315) 487-9157
Phone Ext: Not reported
Email: MAHIMANY@GMAIL.COM
Fax Number: Not reported
Modified By: KCKEMP
Date Last Modified: 8/25/2008

Site Id: 45873
Affiliation Type: On-Site Operator
Company Name: MAHIMA ONE CORP
Contact Type: Not reported
Contact Name: MAHIMA ONE CORP
Address1: Not reported
Address2: Not reported
City: Not reported
State: NY
Zip Code: Not reported
Country Code: 001
Phone: (315) 487-9157
Phone Ext: Not reported
Email: Not reported
Fax Number: Not reported
Modified By: KCKEMP
Date Last Modified: 11/25/2009

Site Id: 45873
Affiliation Type: Emergency Contact
Company Name: JAGDISHKUMAR PATEL
Contact Type: Not reported

MAHIMA ONE CORP (Continued) **U003313683**

Contact Name:	JAY PATEL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(315) 427-3962
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	11/25/2009

Site Id:	45873
Affiliation Type:	Owner
Company Name:	JAGDISHKUMAR PATEL
Contact Type:	VICE PRESIDENT
Contact Name:	JAY PATEL
Address1:	8434 SMOKEY HOLLOW RD
Address2:	Not reported
City:	BALDWINSVILLE
State:	NY
Zip Code:	13027
Country Code:	001
Phone:	(315) 635-8767
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	11/25/2009

Equipment Records:

C02 - Pipe Location - Underground/On-ground
K01 - Spill Prevention - Catch Basin
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
F04 - Pipe External Protection - Fiberglass
I05 - Overfill - Vent Whistle
B02 - Tank External Protection - Original Sacrificial Anode
E00 - Piping Secondary Containment - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
I01 - Overfill - Float Vent Valve
G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
F04 - Pipe External Protection - Fiberglass
F04 - Pipe External Protection - Fiberglass
B01 - Tank External Protection - Painted/Asphalt Coating
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
C02 - Pipe Location - Underground/On-ground
L02 - Piping Leak Detection - Interstitial - Manual Monitoring

MAHIMA ONE CORP (Continued) **U003313683**

K01 - Spill Prevention - Catch Basin
B02 - Tank External Protection - Original Sacrificial Anode
E00 - Piping Secondary Containment - None
B01 - Tank External Protection - Painted/Asphalt Coating
I01 - Overfill - Float Vent Valve
L02 - Piping Leak Detection - Interstitial - Manual Monitoring
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin
B02 - Tank External Protection - Original Sacrificial Anode
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
B02 - Tank External Protection - Original Sacrificial Anode
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
E00 - Piping Secondary Containment - None
F04 - Pipe External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin
B01 - Tank External Protection - Painted/Asphalt Coating
I01 - Overfill - Float Vent Valve
J01 - Dispenser - Submersible
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
C01 - Pipe Location - Aboveground
L02 - Piping Leak Detection - Interstitial - Manual Monitoring
E00 - Piping Secondary Containment - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
L02 - Piping Leak Detection - Interstitial - Manual Monitoring
A00 - Tank Internal Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
J02 - Dispenser - Suction
D10 - Pipe Type - Copper
G10 - Tank Secondary Containment - Impervious Underlayment
L09 - Piping Leak Detection - Exempt Suction Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
E10 - Piping Secondary Containment - Impervious Underlayment
J01 - Dispenser - Submersible

Tank Info:

Site ID:	45873
Tank Number:	001
Tank ID:	132381
Tank Status:	In Service
Tank Model:	102
Pipe Model:	C
Install Date:	12/1/1987
Capacity Gallons:	8000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported

MAHIMA ONE CORP (Continued) **U003313683**

Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	8/25/2008
Site ID:	45873
Tank Number:	002
Tank ID:	132382
Tank Status:	In Service
Tank Model:	102
Pipe Model:	C
Install Date:	12/1/1987
Capacity Gallons:	6000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	8/25/2008
Site ID:	45873
Tank Number:	003
Tank ID:	132383
Tank Status:	In Service
Tank Model:	102
Pipe Model:	C
Install Date:	12/1/1987
Capacity Gallons:	6000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Tank Location:	5
Tank Type:	Steel/carbon steel
Date Test:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	8/25/2008
Site ID:	45873
Tank Number:	004
Tank ID:	132384
Tank Status:	In Service
Tank Model:	102
Pipe Model:	C
Install Date:	12/1/1987
Capacity Gallons:	3000
Tightness Test Method:	NN
Next Test Date:	Not reported
Date Tank Closed:	Not reported

MAHIMA ONE CORP (Continued) **U003313683**

Tank Location: 5
Tank Type: Steel/carbon steel
Date Test: Not reported
Register: True
Modified By: KCKEMP
Last Modified: 8/25/2008

HIST UST:
PBS Number: 7-431044
SPDES Number: Not reported
Emergency Contact: JOSEPH P. MIRABITO
Emergency Telephone: (607) 561-2700
Operator: JAMES MIRABITO & SONS, INC.
Operator Telephone: (315) 487-9157
Owner Name: JAMES MIRABITO & SONS, INC.
Owner Address: 44 GRAND ST.
Owner City,St,Zip: SIDNEY, NY 13838
Owner Telephone: (607) 561-2700
Owner Type: Corporate/Commercial
Owner Subtype: Not reported
Mailing Name: JAMES MIRABITO & SONS, INC.
Mailing Address: 44 GRAND ST.
Mailing Address 2: Not reported
Mailing City,St,Zip: SIDNEY, NY 13838
Mailing Contact: JOSEPH P. MIRABITO, PRES.
Mailing Telephone: (607) 561-2700
Owner Mark: Second Owner
Facility Status: 1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2: Not reported
SWIS ID: 3115
Old PBS Number: 182222
Facility Type: RETAIL GASOLINE SALES
Inspected Date: Not reported
Inspector: Not reported
Inspection Result: Not reported
Federal ID: Not reported
Certification Flag: False
Certification Date: 02/06/1998
Expiration Date: 02/25/2003
Renew Flag: False
Renewal Date: Not reported
Total Capacity: 23000
FAMT: True
Facility Screen: No Missing Data
Owner Screen: No Missing Data
Tank Screen: No Missing Data
Dead Letter: False
CBS Number: Not reported
Town or City: SYRACUSE (C)
County Code: 31
Town or City: 15
Region: 7

Tank Id: 001
Tank Location: UNDERGROUND

MAHIMA ONE CORP (Continued) **U003313683**

Tank Status:	In Service
Install Date:	19871201
Capacity (gals):	8000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	12
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	21
Second Containment:	Vault (w/access)
Leak Detection:	41
Overfill Prot:	Catch Basin, Float Vent Valve
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19871201
Capacity (gals):	6000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	12
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	21
Second Containment:	Vault (w/access)
Leak Detection:	41
Overfill Prot:	Catch Basin, Float Vent Valve
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19871201
Capacity (gals):	6000

MAHIMA ONE CORP (Continued) **U003313683**

Product Stored:	DIESEL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	12
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	21
Second Containment:	Vault (w/access)
Leak Detection:	41
Overfill Prot:	Catch Basin, Float Vent Valve
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	19871201
Capacity (gals):	3000
Product Stored:	UNLEADED GASOLINE
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	12
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	21
Second Containment:	Vault (w/access)
Leak Detection:	41
Overfill Prot:	Catch Basin, Float Vent Valve
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

AST:

Region:	STATE
DEC Region:	7
Site Status:	Active
Facility Id:	7-431044
Program Type:	PBS
UTM X:	398713.81588000001
UTM Y:	4772157.9767899998
Expiration Date:	2013/08/25

MAHIMA ONE CORP (Continued) **U003313683**

Affiliation Records:

Site Id:	45873
Affiliation Type:	Mail Contact
Company Name:	MAHIMA ONE CORP
Contact Type:	Not reported
Contact Name:	JAY PATEL
Address1:	915 STATE FAIR BLVD
Address2:	Not reported
City:	SYRACUSE
State:	NY
Zip Code:	13209
Country Code:	001
Phone:	(315) 487-9157
Phone Ext:	Not reported
Email:	MAHIMANY@GMAIL.COM
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	8/25/2008

Site Id:	45873
Affiliation Type:	On-Site Operator
Company Name:	MAHIMA ONE CORP
Contact Type:	Not reported
Contact Name:	MAHIMA ONE CORP
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(315) 487-9157
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	11/25/2009

Site Id:	45873
Affiliation Type:	Emergency Contact
Company Name:	JAGDISHKUMAR PATEL
Contact Type:	Not reported
Contact Name:	JAY PATEL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(315) 427-3962
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	11/25/2009

Site Id:	45873
Affiliation Type:	Owner

MAHIMA ONE CORP (Continued) **U003313683**

Company Name:	JAGDISHKUMAR PATEL
Contact Type:	VICE PRESIDENT
Contact Name:	JAY PATEL
Address1:	8434 SMOKEY HOLLOW RD
Address2:	Not reported
City:	BALDWINSVILLE
State:	NY
Zip Code:	13027
Country Code:	001
Phone:	(315) 635-8767
Phone Ext:	Not reported
Email:	Not reported
Fax Number:	Not reported
Modified By:	KCKEMP
Date Last Modified:	11/25/2009

Equipment Records:

C02 - Pipe Location - Underground/On-ground
K01 - Spill Prevention - Catch Basin
B01 - Tank External Protection - Painted/Asphalt Coating
B01 - Tank External Protection - Painted/Asphalt Coating
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
F04 - Pipe External Protection - Fiberglass
I05 - Overfill - Vent Whistle
B02 - Tank External Protection - Original Sacrificial Anode
E00 - Piping Secondary Containment - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
I01 - Overfill - Float Vent Valve
G04 - Tank Secondary Containment - Double-Walled (Underground)
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
F04 - Pipe External Protection - Fiberglass
F04 - Pipe External Protection - Fiberglass
B01 - Tank External Protection - Painted/Asphalt Coating
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
A00 - Tank Internal Protection - None
J01 - Dispenser - Submersible
C02 - Pipe Location - Underground/On-ground
L02 - Piping Leak Detection - Interstitial - Manual Monitoring
K01 - Spill Prevention - Catch Basin
B02 - Tank External Protection - Original Sacrificial Anode
E00 - Piping Secondary Containment - None
B01 - Tank External Protection - Painted/Asphalt Coating
I01 - Overfill - Float Vent Valve
L02 - Piping Leak Detection - Interstitial - Manual Monitoring
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
G04 - Tank Secondary Containment - Double-Walled (Underground)
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin
B02 - Tank External Protection - Original Sacrificial Anode
C02 - Pipe Location - Underground/On-ground
A00 - Tank Internal Protection - None
B02 - Tank External Protection - Original Sacrificial Anode
L07 - Piping Leak Detection - Pressurized Piping Leak Detector

MAHIMA ONE CORP (Continued) **U003313683**

G04 - Tank Secondary Containment - Double-Walled (Underground)
E00 - Piping Secondary Containment - None
F04 - Pipe External Protection - Fiberglass
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
K01 - Spill Prevention - Catch Basin
B01 - Tank External Protection - Painted/Asphalt Coating
I01 - Overfill - Float Vent Valve
J01 - Dispenser - Submersible
A00 - Tank Internal Protection - None
K00 - Spill Prevention - None
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
G04 - Tank Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve
L07 - Piping Leak Detection - Pressurized Piping Leak Detector
C01 - Pipe Location - Aboveground
L02 - Piping Leak Detection - Interstitial - Manual Monitoring
E00 - Piping Secondary Containment - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
L02 - Piping Leak Detection - Interstitial - Manual Monitoring
A00 - Tank Internal Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
J02 - Dispenser - Suction
D10 - Pipe Type - Copper
G10 - Tank Secondary Containment - Impervious Underlayment
L09 - Piping Leak Detection - Exempt Suction Piping
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
E10 - Piping Secondary Containment - Impervious Underlayment
J01 - Dispenser - Submersible

Tank Info:

Tank Number:	005
Tank Id:	215787
Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Tank Model:	Not reported
Pipe Model:	Not reported
Install Date:	2/6/2007
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KCKEMP
Last Modified:	8/25/2008

NY Spills:

Site ID:	75904
Facility Addr2:	Not reported
Facility ID:	9012612
Spill Number:	9012612
Facility Type:	ER
SWIS:	3415
Investigator:	ROMOCKI
Referred To:	Not reported

MAHIMA ONE CORP (Continued) **U003313683**

Spill Date:	3/8/1991
Reported to Dept:	3/8/1991
CID:	Not reported
Spill Cause:	Human Error
Water Affected:	Not reported
Spill Source:	Gasoline Station
Spill Notifier:	Affected Persons
Cleanup Ceased:	3/8/1991
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	Penalty Not Recommended
UST Trust:	False
Spill Class:	Not reported
Spill Closed Dt:	3/15/1991
Remediation Phase:	0
Date Entered In Computer:	3/8/1991
Spill Record Last Update:	3/15/1991
Spiller Name:	Not reported
Spiller Company:	RUDOLF GANEARZ
Spiller Address:	500 CHURCH ST.
Spiller City,St,Zip:	LAKELAND, NY 13209
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Region:	7
DER Facility ID:	71017
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MR" 03/15/91: SPEEDI-DRY PUT DOWN TO ABSORB SPILL. UPON INSPECTION, NO GASOLINE APPEARED TO ENTER THE STROM SEWER AS EARLIER REPORTED.
Remarks:	CUSTOMER SPRAYED CAR W/ GAS THINKING HE WAS AT CARWASH. LAKELAND FIRE DEPT. RESPONDED. APPLIED SPEEDI DRY. SOME ENTERED SEWER.

Material:

Site ID:	75904
Operable Unit ID:	952372
Operable Unit:	01
Material ID:	429082
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	8
Units:	Gallons
Recovered:	2
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported

MAHIMA ONE CORP (Continued) **U003313683**

Test Method: Not reported

NY Hist Spills:
Region of Spill: 7
Spill Number: 9012612
Investigator: MR
Caller Name: Not reported
Caller Agency: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Agency: Not reported
Notifier Phone: Not reported
Spill Date/Time: 03/08/1991 11:18
Reported to Dept Date/Time: 03/08/91 11:38
SWIS: 31
Spiller Name: RUDOLF GANEARZ
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Address: 500 CHURCH ST.
Spiller City,St,Zip: LAKELAND, NY 13209
Spill Cause: Human Error
Reported to Dept: On Land
Water Affected: Not reported
Spill Source: 05
Spill Notifier: Affected Persons
PBS Number: Not reported
Cleanup Ceased: 03/08/91
Cleanup Meets Std: True
Last Inspection: / /
Recommended Penalty: Penalty Not Recommended
Spiller Cleanup Dt: / /
Enforcement Date: / /
Invstgn Complete: / /
UST Involvement: False
Spill Class: Not reported
Spill Closed Dt: 03/15/91
Corrective Action Plan Submitted: / /
Date Region Sent Summary to Central Office: / /
Date Spill Entered In Computer Data File: 03/08/91
Date Spill Entered In Computer Data File: Not reported
Update Date: 03/15/91
Is Updated: False

Tank:
PBS Number: Not reported
Tank Number: Not reported
Tank Size: Not reported
Test Method: Not reported
Leak Rate Failed Tank: Not reported
Gross Leak Rate: Not reported

Material:
Material Class Type: Petroleum
Quantity Spilled: 8
Unkonwn Quantity Spilled: False
Units: Gallons
Quantity Recovered: 2

MAHIMA ONE CORP (Continued) **U003313683**

Unkonwn Quantity Recovered: False
Material: GASOLINE
Class Type: GASOLINE
Times Material Entry In File: 21329
CAS Number: Not reported
Last Date: 19940929
DEC Remarks: 03/15/91: SPEEDI-DRY PUT DOWN TO ABSORB SPILL. UPON INSPECTION, NO GASOLINE APPEARED TO ENTER THE STROM SEWER AS EARLIER REPORTED.
Remark: CUSTOMER SPRAYED CAR W/ GAS THINKING HE WAS AT CARWASH. LAKELAND FIRE DEPT. RESPONDED. APPLIED SPEEDI DRY. SOME ENTERED SEWER.

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142 **SOUTHERN CONTAINER -SYRACUSE** **LTANKS** **S102639429**
SW **100 SOUTHERN DRIVE** **CBS AST** **N/A**
> 1 **CAMILLUS, NY 13031** **CBS**
1.750 mi.
9238 ft.

Relative:
Higher

Actual:
458 ft.

LTANKS:
Site ID: 349572
Spill No: 0504740
Spill Date: 7/20/2005
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 11/4/2005
Facility Addr2: Not reported
Cleanup Ceased: 11/4/2005
Cleanup Meets Standard: True
SWIS: 3420
Investigator: KCKemp
Referred To: Not reported
Reported to Dept: 7/20/2005
CID: 444
Water Affected: NONE
Spill Notifier: Responsible Party
Last Inspection: 7/20/2005
Recommended Penalty: Penalty Not Recommended
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 7/20/2005
Spill Record Last Update: 11/4/2005
Spiller Name: DAVE ATWELL
Spiller Company: SOUTHERN CONTAINER
Spiller Address: 100 SOUTHERN DRIVE
Spiller City,St,Zip: CAMILLUS, NY 13031
Spiller County: 001
Spiller Contact: DAVE ATWELL
Spiller Phone: (315) 487-6111
Spiller Extention: Not reported
DEC Region: 7
DER Facility ID: 285871
DEC Memo: 07-20-2005 email from Steve Vinci at C&S ... "Just a quick update on Southern Container. We looked at the foundation drawings and one of our structural engineers made a site visit to help determine whether we should try to remove the UST or proceed with an in-place closure. Come to find out one end of tank was immediately adjacent to one of the building columns. Given the circumstances we decided to proceed

SOUTHERN CONTAINER -SYRACUSE (Continued) **S102639429**

with the in-place closure. If we proceeded with removal of the tank, underpinning of the concrete beam, slab and area beneath the column would have been required. After pumping out the tank and cutting an access hole into it and cleaning the tank Monroe Mechanical used a hole saw to cut a coupon out of the bottom of the tank to facilitate sampling. That effort revealed the tank was situated upon a concrete pad. I have been told that soil samples have been obtained from the out board side and right side as of 2PM or so. A third sample will be obtained (from the left side) before the end of the day. I have been told the material sampled is sandy with no obvious evidence of petroleum contamination. All samples will be analyzed via EPA 8260 STARS/TAGM and EPA 8270 B/N STARS/TAGM. Also, we did recommend that Southern Container call in a spill since the disposal facilities often ask for a number. The spill was called in at around 11 AM today. Would you please fax or e-mail to me the spill call in sheet that was sent to the Region ? That's it for now. Should you have any questions, please let me know. Thanks! Steven M. Vinci,CPG C&S Engineers,Inc. 315-455-2000x294 315-455-9667(FAX) svinci@cscos.com Closure Report received. Spill closed 11/4/2005, NFA letter mailed to owner

Remarks: TANK REMOVAL; CLEANED UP: KEVIN KEMP FROM DEC WAS ON SITE

Material:

Site ID:	349572
Operable Unit ID:	1107161
Operable Unit:	01
Material ID:	2097056
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	2
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	Not reported
Spill Tank Test:	Not reported
Tank Number:	Not reported
Tank Size:	Not reported
Test Method:	Not reported
Leak Rate:	Not reported
Gross Fail:	Not reported
Modified By:	Not reported
Last Modified:	Not reported
Test Method:	Not reported

CBS AST:

CBS Number:	7-000179
Region:	STATE
ICS Number:	7-700704
PBS Number:	7-460524
MOSF Number:	Not reported

SOUTHERN CONTAINER -SYRACUSE (Continued) **S102639429**

Telephone:	(315) 487-6111
Facility Town:	CAMILLUS
Operator:	J. VANN
Emrgncy Contact:	MIKE MOORRISETTE
Emrgncy Phone:	(315) 487-6111
Expiration Date:	11/03/2003
Owner Name:	SOUTHERN CONTAINER
Owner Address:	115 ENGINEERS ROAD
Owner City,St,Zip:	HAUPPAUGE, NY 11788
Owner Telephone:	(516) 231-0400
Owner type:	Corporate/Commercial
Facility Type:	MANUFACTURING
Mail Name:	SOUTHERN CONTAINER
Mail Contact Addr:	115 ENGINEERS ROAD
Mail Contact Addr2:	Not reported
Mail Contact Contact:	COREY MARKER
Mail Contact City,St,Zip:	HAUPPAUGE, NY 11788
Mail Phone:	(516) 231-0400
SPDES Number:	Not reported
Facility Status:	ACTIVE FACILITY
Owner Sub Type:	Not reported

Tank Id:	003
Date Entered:	11/03/1989
Capacity (Gal):	4000
Chemical:	Sodium hydroxide
Tank Closed:	Not reported
Tank Status:	In Service
Tank Type:	Steel/carbon steel
Install Date:	02/89
Certified Date:	12/27/2001
CAS Number:	1310732
Substance:	Single Hazardous Substance on DEC List
Tank Location:	ABOVEGROUND
Intrnl Protection:	None
Extrnl Protection:	None
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Pipe Containment:	None,None
Tank Containment:	None
Leak Detection:	None,None
Overfill Protection:	None,None
Haz Percent:	50
Total Tanks:	1
Tank Secret:	False
Last Test:	Not reported
Due Date:	Not reported
Tank Error Status:	No Missing Data
SWIS Code:	3120
Lat/Long:	Not reported
Pipe Flag:	False
Federal ID:	Not reported
Is Updated:	F
Renew Date:	08/02/93
Is it There:	F

SOUTHERN CONTAINER -SYRACUSE (Continued) **S102639429**

Deliquent: F
Date Expired: 11/03/95
Owner Mark: 1
Certificate Needs to be Printed: False
Fiscal Amt for Registration Fee Correct: True
Renewal Has Been Printed for Facility: True
Pre-Printed Renewal App Last Printed: 07/30/2001
Total Capacity of All Active Tanks(gal): 4000

CBS:
CBS Number: 7-000179
Program Type: CBS
Dec Region: 7
Expiration Date: N/A
Facility Status: Unregulated
UTMX: 396410.99395999
UTMY: 4767529.9854100

AE143 **SPECIALTY METALS/CRUCIBLE LANDFILL** **RCRA-TSDF** **1000171342**
East **STATE FAIR BLVD WASTEBED** **CORRACTS** **NYD085161008**
> 1 **GEDDES, NY 13209** **RCRA-NonGen**
1.950 mi. **FINANCIAL ASSURANCE**
10298 ft. **Site 1 of 2 in cluster AE**

Relative: Lower

Actual: 378 ft.

RCRA-TSDF:
Date form received by agency: 01/01/2007
Facility name: SPECIALTY METALS CRUCIBLE LANDFILL
Facility address: STATE FAIR BLVD WASTEBED
GEDDES, NY 13209
EPA ID: NYD085161008
Mailing address: PO BOX 977
SYRACUSE, NY 13201
Contact: ROBERT WILLS
Contact address: PO BOX 977
SYRACUSE, NY 13201
Contact country: US
Contact telephone: Not reported
Contact email: RHWILLS@CRUMETALS.COM
EPA Region: 02
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
TSD commencement date: Not reported
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: Not reported
Owner/operator address: OWNERSTREET
OWNERCITY, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

SPECIALTY METALS/CRUCIBLE LANDFILL (Continued) **1000171342**

Owner/operator name: OPERNAME
Owner/operator address: OPERSTREET
OPERCITY, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler accessibilty indicator: Transferred to the program or state equivalent.

Handler Activities Summary:
U.S. importer of hazardous waste: Unknown
Mixed waste (haz. and radioactive): Unknown
Recycler of hazardous waste: Unknown
Transporter of hazardous waste: Unknown
Treater, storer or disposer of HW: Unknown
Underground injection activity: Unknown
On-site burner exemption: Unknown
Furnace exemption: Unknown
Used oil fuel burner: Unknown
Used oil processor: Unknown
User oil refiner: Unknown
Used oil fuel marketer to burner: Unknown
Used oil Specification marketer: Unknown
Used oil transfer facility: Unknown
Used oil transporter: Unknown
Off-site waste receiver: Commercial status unknown

Historical Generators:
Date form received by agency: 01/01/2006
Facility name: SPECIALTY METALS CRUCIBLE LANDFILL
Classification: Not a generator, verified

Date form received by agency: 03/04/2003
Facility name: SPECIALTY METALS CRUCIBLE LANDFILL
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Facility name: SPECIALTY METALS CRUCIBLE LANDFILL
Classification: Not a generator, verified

Date form received by agency: 11/19/1980
Facility name: SPECIALTY METALS CRUCIBLE LANDFILL
Classification: Not a generator, verified

Date form received by agency: 08/18/1980
Facility name: SPECIALTY METALS CRUCIBLE LANDFILL
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 09/28/1988
Event: RFA Completed

Event date: 12/08/1992
Event: CA Prioritization, Facility or area was assigned a low corrective

SPECIALTY METALS/CRUCIBLE LANDFILL (Continued) **1000171342**

action priority.

Event date: 03/30/1994
Event: Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time for reasons other than 1- it appears to be technically infeasible or inappropriate (NF) or 2- there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.

Event date: 09/08/1994
Event: CA Responsibility Referred To A Non-RCRA Federal Authority

Event date: 04/17/2002
Event: CA577

Facility Has Received Notices of Violations:
Regulation violated: SR - 373-3.8(f)
Area of violation: TSD - Financial Requirements
Date violation determined: 08/20/2004
Date achieved compliance: 07/22/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 07/25/2005
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 07/25/2005
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: 10000

Regulation violated: SR - 373-3.8(f)
Area of violation: TSD - Financial Requirements
Date violation determined: 08/20/2004
Date achieved compliance: 07/22/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/10/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 37500
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 03/11/1997
Date achieved compliance: 03/20/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/11/1997
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

SPECIALTY METALS/CRUCIBLE LANDFILL (Continued) **1000171342**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 09/09/1993
Date achieved compliance: 03/24/1994
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/24/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 10000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 09/09/1993
Date achieved compliance: 03/24/1994
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/10/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 10000
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Ground-Water Monitoring
Date violation determined: 11/20/1991
Date achieved compliance: 11/06/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/20/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/17/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/31/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

SPECIALTY METALS/CRUCIBLE LANDFILL (Continued) **1000171342**

Evaluation date: 03/25/2008
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/14/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/30/2007
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/17/2006
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/30/2006
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 07/11/2006
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/16/2005
Evaluation: OPERATION AND MAINTENANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/31/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/22/2005
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/13/2005
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported

SPECIALTY METALS/CRUCIBLE LANDFILL (Continued) **1000171342**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/21/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/23/2004
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/20/2004
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 07/22/2005
Evaluation lead agency: State

Evaluation date: 06/20/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/27/2002
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/31/2000
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/27/1999
Evaluation: OPERATION AND MAINTENANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/25/1999
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/12/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

SPECIALTY METALS/CRUCIBLE LANDFILL (Continued) **1000171342**

Evaluation date: 03/30/1998
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/06/1997
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/26/1997
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/26/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/20/1997
Evaluation lead agency: State

Evaluation date: 03/15/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/15/1995
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/07/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/09/1993
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 03/24/1994
Evaluation lead agency: State

Evaluation date: 09/01/1993
Evaluation: OPERATION AND MAINTENANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/17/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported

SPECIALTY METALS/CRUCIBLE LANDFILL (Continued) **1000171342**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/09/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/20/1991
Evaluation: GROUNDWATER MONITORING EVALUATION
Area of violation: TSD IS-Ground-Water Monitoring
Date achieved compliance: 11/06/1997
Evaluation lead agency: State

Evaluation date: 09/30/1991
Evaluation: OPERATION AND MAINTENANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/12/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/01/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/31/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/08/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/13/1987
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/03/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

SPECIALTY METALS/CRUCIBLE LANDFILL (Continued) **1000171342**

CORRACTS:

EPA ID: NYD085161008
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 3/29/2010
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD085161008
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 3/30/1994
Action: CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD085161008
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 4/17/2002
Action: CA577
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD085161008
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 9/8/1994
Action: CA210 - CA Responsibility Referred To A Non-RCRA Federal Authority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD085161008
EPA Region: 2
Area Name: SITEWIDE
Actual Date: 9/28/1988
Action: CA050 - RFA Completed
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD085161008

SPECIALTY METALS/CRUCIBLE LANDFILL (Continued) **1000171342**

EPA Region: 2
Area Name: SITEWIDE
Actual Date: 12/8/1992
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

FINASS2:
Region: 2
Letter of Credit: Not reported
Other: Not reported
EPA Id Number: NYD085161008
Company Name: Enpro Industries
Closure Cost: $0
Post-Closure Cost: $1,521,252
Correction Action Cost: $0
Financial Mech Cg: Y
Financial Mech Ft: Not reported
Type: Not reported
Insurance Provider: Not reported
Surety: Not reported
Trust Fund Institution: Not reported

AE144 **CRUCIBLE STEEL - SYRACUSE OPERATION** **SHWS** **S103350657**
East **STATE FAIR BOULEVARD** **N/A**
> 1 **SOLVAY, NY 13209**
1.950 mi.
10298 ft. **Site 2 of 2 in cluster AE**

Relative:
Lower

Actual:
378 ft.

SHWS:
Program: HW
Site Code: 56334
Classification: DOES NOT PRESENT A SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR THE ENVIRONMENT - ACTION MAY BE DEFERRED.
Region: 7
Acres: 28.000
HW Code: 734021
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 2/22/2008 4:26:00 PM
Updated By: GATOWNSE
Site Description: This site is presently a landfill that was previously used for disposing EP toxic chrome and air pollution baghouse dust. Some groundwater sampling has indicated chrome concentrations above the applicable groundwater standards. At this time groundwater monitoring is being done under the terms of a Part 360 permit. A RCRA closure plan has been approved and the site has since been capped. Upon completion of the cap, formal approval was granted by the RCRA program. The site is now under an OM&M Plan, and annual inspections are conducted by RCRA personnel.
Env Problem: This site has been capped, and the remediation of the site overseen by the RCRA program. Groundwater contamination may have occurred and possibly discharged to Onondaga Lake.
Health Problem: Exposure to contaminated groundwater is not expected because there are no private or public water supply wells in the immediate area. Direct contact exposures are unlikely due to the protective cap

CRUCIBLE STEEL - SYRACUSE OPERATION (Continued) **S103350657**

placed over the waste. There are no on-site or nearby structures that could be affected by soil vapor intrusion.

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	True
Pond:	False
Disp Start:	1972
Disp Term:	1982
Lat/Long:	43:05:14:0 / 76:13:25:0
Dell:	False
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	11/18/1999 12:00:00 PM
Updated By:	INITIAL
Own Op:	Owner
Sub Type:	E
Owner Name:	Not reported
Owner Company:	NYSDOT
Owner Address:	STATE FAIR BLVD.
Owner Addr2:	Not reported
Owner City,St,Zip:	SOLVAY, NY 13209
Owner Country:	United States of America
Own Op:	Disp. Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	NYSDOT
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	NY
Owner Country:	Unknown
Own Op:	On-Site Operator
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	UNKNOWN3
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Colt Industries
Owner Address:	State Fair Boulevard
Owner Addr2:	Not reported
Owner City,St,Zip:	Solvay, NY 13209
Owner Country:	United States of America
HW Code:	734021
Waste Type:	ARGON-OXYGEN DECARBONIZATION DUST
Waste Quantity:	6,000,000 LBS.
Waste Code:	Not reported
HW Code:	734021
Waste Type:	AIR POLLUTION BAGHOUSE DUST
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	NYD980530075
Cross Ref Type Code:	05
Cross Ref Type:	EPA Site ID

CRUCIBLE STEEL - SYRACUSE OPERATION (Continued) **S103350657**

Record Added Date: 11/18/1999 12:00:00 PM
Record Updated: 5/10/2001 4:31:00 PM
Updated By: REGTRANS
Crossref ID: NYD085161008
Cross Ref Type Code: 06
Cross Ref Type: RCRA ID
Record Added Date: 11/18/1999 12:00:00 PM
Record Updated: 2/24/2005 3:54:00 PM
Updated By: INITIAL

145
East
> 1
2.131 mi.
11250 ft.

Relative:
Lower

Actual:
375 ft.

WILLIS AVENUE - FORMER BALL FIELD **SHWS** **S110309468**
585 STATE FAIR BLVD. SOUTH **N/A**
SYRACUSE, NY 13204

SHWS:
Program: HW
Site Code: 58957
Classification: SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.
Region: 7
Acres: 10.000
HW Code: 734072
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 3/30/2010 8:37:00 AM
Updated By: DJHESLER
Site Description: The Willis Avenue Ballfield site is located in an urban area adjacent to Willis Avenue and State Fair Boulevard in the Town of Geddes. The site is a fairly flat area and groundwater flows to the north/northeast toward the East Flume and Onondaga Lake. Onondaga Lake is approximately 500 feet north of the site. Currently the western half of the area is a vacant lot and a commercial fencing facility is located on the remaining area. The surrounding area consists of industrial facilities and there is a CSX railroad line south of the site. The site lies within an area known to have been used by Honeywell (or their predecessors) through the 1920s for the disposal of Solvay Waste (Wastebed C). The area was used as a baseball field in the 1960s and 1970s by employees of the Willis Avenue plant. Information received from third parties indicates that this site was used as a dumping ground by Honeywell's predecessors. Dumping of laboratory items such as test tubes, beakers, powders and unknown chemicals is alleged to have occurred here in the 1930s - 1940s. Also, barrels and other miscellaneous debris is alleged to have been dumped in the area. This site is directly across the street from the former Willis Avenue chlor-alkali plant and is in close proximity to the former Allied Chemical Main Plant facility. During the 1930s and 1940s, Allied Chemical manuafactured various products including the following, any of which or their by-products, may have been disposed in this area: soda ash, benzene, toluene, xylene, chlorobenzene, caustic soda, liquid chlorine, hydrochloric acid, and phenol. Honeywell performed a PSA on the site and and is currently performing an RI/FS. Test pits, borings, and other observations during the PSA and RI field work have confirmed that wastes were dumped at the site. Test pit excavations detected the presence of cinders, ash, construction and demolition debris, tarry materials, diaphragm cells, beakers and other glassware, corroded and rusted drums and drum pieces, possible laboratory wastes and powders, and

WILLIS AVENUE - FORMER BALL FIELD (Continued) **S110309468**

other miscellaneous debris. Odors and elevated PID and mercury vapor readings were also noted in select areas during the PSA and RI field work. Investigations at the site have detected elevated levels of chlorinated benzenes, xylenes, naphthalene and other PAHs, mercury and other metals, and PCBs in soils. Groundwater also has elevated levels of mercury and benzene present.

Env Problem: Based upon the PSA and RI investigations to date, it appears that waste was heterogeneously disposed across the whole area of the site (from approximately 0-20 ft below ground surface (bgs)) with the primary contaminants of concern being chlorinated benzenes, naphthalene, PCBs, mercury, and chromium. In soil/waste samples collected from test pits and borings the following compounds were detected above the Part 375 industrial use soil cleanup objectives (SCO): 1,2,4-trimethylbenzene (at concentrations up to 780 ppm, SCO of 380 ppm), naphthalene (up to 5,100 ppm, SCO of 1000 ppm), hexachlorobenzene (up to 40 ppm, SCO of 12 ppm), PCBs (up to 580 ppm, SCO of 25 ppm), mercury (up to 1760 ppm, SCO of 5.7 ppm), and chromium (up to 8350 ppm, SCO of 6800 ppm). Contaminants in the groundwater (from approximately 15 to 60 ft bgs) that exceeded groundwater standards or guidance values (TOGS 1.1.1) included benzene (up to 110 ppb, standard of 1 ppb), chlorobenzene (up to 7 ppb, standard of 5 ppb), toluene (up to 57 ppb, standard of 5 ppb), 1,2-dichlorobenzene (up to 29 ppb, standard of 3 ppb), 1,4-dichlorobenzene (up to 98 ppb, standard of 3 ppb), phenol (up to 13,000 ppb, standard of 1 ppb), chromium (up to 431 ppb, standard of 50 ppb), lead (up to 682 ppb, standard of 25 ppb), and mercury (up to 31 ppb, standard of 0.7 ppb). Groundwater is located at approximately 15 to 20 ft below ground surface and primarily flows to the north/northeast toward the East Flume and Onondaga Lake. Onondaga Lake is approximately 500 feet north of the site. The site presents a significant environmental threat due to soil contamination and ongoing releases to the groundwater. More information regarding the site can be found in the documents placed in the Site Document Repository.

Health Problem: No one is expected to come into contact with contaminants in the groundwater from this site since public water is supplied to the area. There is a potential for trespassers to come into contact with contaminated surface soils, however, crushed stone and dense vegetation cover the site. The potential for exposures associated with soil vapor intrusion has been investigated and it was determined no further action is required.

Dump: False
Structure: False
Lagoon: False
Landfill: False
Pond: False
Disp Start: Not reported
Disp Term: Not reported
Lat/Long: 00:00:00:0 / 00:00:00:0
Dell: False
Record Add: 11/18/1999 12:00:00 PM
Record Upd: 12/3/2009 9:17:00 AM
Updated By: txsmith
Own Op: Document Repository
Sub Type: T03
Owner Name: Samual Sage
Owner Company: Atlantic States Legal Foundation

WILLIS AVENUE - FORMER BALL FIELD (Continued) **S110309468**

Owner Address:	658 West Onondaga Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Syracuse, NY 13204
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	01
Owner Name:	Alfred Labuz
Owner Company:	Honeywell International
Owner Address:	301 Plainfield Road, Suite 330
Owner Addr2:	Not reported
Owner City,St,Zip:	Syracuse, NY 13212
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	B99
Owner Name:	Diane Carlton
Owner Company:	NYSDEC
Owner Address:	615 Erie Boulevard, West
Owner Addr2:	Not reported
Owner City,St,Zip:	Syracuse, NY 13204
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	05
Owner Name:	Rick Austin
Owner Company:	Butler Fence
Owner Address:	536 State Fair Blvd
Owner Addr2:	Not reported
Owner City,St,Zip:	Syracuse, NY 13204
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	Onondaga County Public Library
Owner Address:	447 South Salina Street
Owner Addr2:	Not reported
Owner City,St,Zip:	Syracuse, NY 13204
Owner Country:	United States of America
HW Code:	734072
Waste Type:	CHLOROBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734072
Waste Type:	CHROMIUM
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734072
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734072
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734072
Waste Type:	POLYCHLORINATED BIPHENYLS (PCB)
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734072

WILLIS AVENUE - FORMER BALL FIELD (Continued) **S110309468**

Waste Type:	BENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	734072
Waste Type:	HEXACHLOROBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	D-7-0002-00-02
Cross Ref Type Code:	23
Cross Ref Type:	Agreement/Consent Order Number
Record Added Date:	11/25/2009 8:32:00 AM
Record Updated:	11/25/2009 8:32:00 AM
Updated By:	txsmith
Crossref ID:	4/26/2000
Cross Ref Type Code:	26
Cross Ref Type:	Agreement/Consent Order Date
Record Added Date:	11/25/2009 8:32:00 AM
Record Updated:	11/25/2009 8:32:00 AM
Updated By:	txsmith

Count: 20 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SYRACUSE	1000551803	NYSDOT	RT 5 /ROADWAY A BIN 1093400	13219	FINDS,MANIFEST,RCRA-NLR
SOLVAY	1000981400	NYSDOT BIN 1093389	RTE 695 CAMILLUS BYPASS	13209	FINDS,RCRA-NLR
GEDDES	1003863781	CRUCIBLE INC /LAKE PUMP STATION	RTE 690	13209	CERCLIS-NFRAP
GEDDES	1003864115	STATE FAIR LANDFILL	STATE FAIR BOULEVARD	13209	CERCLIS-NFRAP
GEDDES	1004762106	ONONDAGA CO STATE FAIR BRG	STATE FAIR BLVD 1000 FT N	13209	FINDS,RCRA-NLR
CAMILLUS	1007815098	ALLIED SIGNAL INC WASTEBEDS 12-15	GERE LOCK RD	13031	FINDS
SYRACUSE	1009232861	NYSDEC	STATE FAR BLVD		MANIFEST
CAMILLUS	1011863536	NYSDOT BIN 1093459	RTE 5 OVER NINE MILE CREEK	13031	RCRA-LQG
GEDDES	1012186604	NYSDOT BIN 1049610	PEDESTRIAN WALK OVER STATE	13209	RCRA-LQG
SYRACUSE	S102164487	RT. 81 & PEARL ST. ACCI.	RT. 81 NORTH / PEARL ST.		SPILLS,HIST SPILLS
SYRACUSE	S102164540	SOUTHERN COATING ACCIDENT	RT 81 N		SPILLS,HIST SPILLS
SYRACUSE UNIVERSITY	S102164936	RED TANK TRUCK	ROUTE 81 SOUTH		SPILLS,HIST SPILLS
SYRACUSE	S106383703	COSTAL SERVICE STA	ROUTE 12/ROUTE 11		SPILLS
SALINA	S106781020	OLD LEY CREEK CHANNEL SITE	NYS ROUTE 11	13209	HWS
SYRACUSE	S106967578	COUNTRY VIEW TERRACE APTS	ROUTE 175		SPILLS
SYRACUSE	S108057348	CARRIER CORP	THOMPSON ROAD / ROUTE 2		SPILLS
	S109373865	SOUTH SIDE OF SHOULDER RTE 20	RTE 20 / RTE 80		SPILLS
	S109828531	SKANEATELES LAKE	RTE 41		SPILLS
SYRACUSE	S110139638	I/F/O 1380 RTE 11	1380 RTE 11		SPILLS
SYRACUSE	S110490251	TO ROADWAY	RTE 298 / 598		SPILLS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/02/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 82

Source: EPA
Telephone: N/A
Last EDR Contact: 10/13/2010
Next Scheduled EDR Contact: 01/24/2011
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/02/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 82

Source: EPA
Telephone: N/A
Last EDR Contact: 10/13/2010
Next Scheduled EDR Contact: 01/24/2011
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 11/22/2010
Next Scheduled EDR Contact: 02/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/02/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 82

Source: EPA
Telephone: N/A
Last EDR Contact: 10/13/2010
Next Scheduled EDR Contact: 01/24/2011
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/29/2010
Date Data Arrived at EDR: 02/09/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 62

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 12/30/2010
Next Scheduled EDR Contact: 04/11/2011
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 06/23/2009
Date Data Arrived at EDR: 01/15/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/13/2010
Next Scheduled EDR Contact: 01/24/2011
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/23/2009
Date Data Arrived at EDR: 09/02/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 19

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 12/01/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 05/25/2010
Date Data Arrived at EDR: 06/02/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 124

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/22/2010
Next Scheduled EDR Contact: 02/28/2011
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/20/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/20/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 07/09/2010
Date Data Arrived at EDR: 07/09/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 39

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/07/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 11/23/2010
Date Data Arrived at EDR: 11/23/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 24

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 11/23/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Annually

VAPOR REOPENED: Vapor Intrustion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 11/24/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 23

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 11/24/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/13/2010
Date Data Arrived at EDR: 10/14/2010
Date Made Active in Reports: 11/15/2010
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 01/10/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 11/23/2010
Date Data Arrived at EDR: 11/23/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 24

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 11/23/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/27/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 08/30/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/05/2010
Date Data Arrived at EDR: 08/06/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 59
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/02/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/05/2010
Date Data Arrived at EDR: 08/06/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 59
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009
Date Data Arrived at EDR: 05/04/2010
Date Made Active in Reports: 07/07/2010
Number of Days to Update: 64
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/03/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/24/2010
Date Data Arrived at EDR: 05/27/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 74
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Petroleum Bulk Storage (PBS) Database
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 10/05/2010
Date Data Arrived at EDR: 10/06/2010
Date Made Active in Reports: 11/19/2010
Number of Days to Update: 44
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30
Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: Varies

AST: Petroleum Bulk Storage

Registered Aboveground Storage Tanks.

Date of Government Version: 10/05/2010
Date Data Arrived at EDR: 10/06/2010
Date Made Active in Reports: 11/19/2010
Number of Days to Update: 44

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 10/05/2010
Date Data Arrived at EDR: 10/06/2010
Date Made Active in Reports: 11/15/2010
Number of Days to Update: 40

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Quarterly

MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 10/05/2010
Date Data Arrived at EDR: 10/06/2010
Date Made Active in Reports: 11/15/2010
Number of Days to Update: 40

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/03/2010
Date Data Arrived at EDR: 08/04/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 61

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/11/2010
Date Data Arrived at EDR: 02/11/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 60

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/27/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/30/2010
Date Data Arrived at EDR: 08/30/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 35

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/24/2010
Date Data Arrived at EDR: 05/27/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 74

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008
Date Data Arrived at EDR: 12/30/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 76

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 11/09/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/05/2010
Date Data Arrived at EDR: 08/06/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 59

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/02/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/29/2010
Next Scheduled EDR Contact: 01/31/2011
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 11/23/2010
Date Data Arrived at EDR: 11/23/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 24

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 11/23/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 11/23/2010
Date Data Arrived at EDR: 11/23/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 24

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 11/23/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Quarterly

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 12/31/1992
Date Data Arrived at EDR: 01/31/2007
Date Made Active in Reports: 04/19/2007
Number of Days to Update: 78

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 12/22/2010
Next Scheduled EDR Contact: 04/11/2011
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 11/23/2010
Date Data Arrived at EDR: 11/23/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 24

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 11/23/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Semi-Annually

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/05/2010
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 11/23/2010
Date Data Arrived at EDR: 11/23/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 24

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 11/23/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Quarterly

BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 11/23/2010
Date Data Arrived at EDR: 11/23/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 24

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 11/23/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/24/2010
Date Data Arrived at EDR: 06/25/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/30/2010
Next Scheduled EDR Contact: 04/11/2011
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 12/22/2010
Next Scheduled EDR Contact: 04/11/2011
Data Release Frequency: No Update Planned

SWTIRE: Registered Waste Tire Storage & Facility List

A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 11/04/2010
Next Scheduled EDR Contact: 02/07/2011
Data Release Frequency: Annually

SWRCY: Registered Recycling Facility List

A listing of recycling facilities.

Date of Government Version: 10/13/2010
Date Data Arrived at EDR: 10/14/2010
Date Made Active in Reports: 11/15/2010
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 01/10/2011
Next Scheduled EDR Contact: 01/25/2011
Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/09/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/07/2010
Date Data Arrived at EDR: 06/18/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 60
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 12/08/2010
Next Scheduled EDR Contact: 03/21/2011
Data Release Frequency: Quarterly

DEL SHWS: Delisted Registry Sites
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 08/24/2010
Date Data Arrived at EDR: 08/25/2010
Date Made Active in Reports: 09/24/2010
Number of Days to Update: 30
Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 11/23/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Annually

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48
Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/06/2010
Date Data Arrived at EDR: 05/11/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/22/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/06/2010
Date Data Arrived at EDR: 04/07/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 50

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/05/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Annually

SPILLS: Spills Information Database

Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 11/23/2010
Date Data Arrived at EDR: 11/23/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 24

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 11/23/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database

This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2010
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 01/06/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2010
Date Data Arrived at EDR: 02/09/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 62

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/09/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 10/28/2010
Next Scheduled EDR Contact: 01/31/2011
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/13/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 07/01/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 113

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2011
Next Scheduled EDR Contact: 04/18/2011
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 06/01/2010
Date Data Arrived at EDR: 06/16/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 62

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/10/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 12/14/2009
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 10/04/2010
Number of Days to Update: 5

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/29/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/04/2010
Date Data Arrived at EDR: 09/09/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/09/2010
Next Scheduled EDR Contact: 03/21/2011
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 36

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 12/17/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/29/2010
Next Scheduled EDR Contact: 04/11/2011
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/29/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/29/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/06/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 04/24/2010
Date Data Arrived at EDR: 04/29/2010
Date Made Active in Reports: 05/17/2010
Number of Days to Update: 18
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 12/23/2010
Next Scheduled EDR Contact: 04/11/2011
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 02/01/2010
Date Data Arrived at EDR: 04/22/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 109

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 11/10/2010
Next Scheduled EDR Contact: 01/31/2011
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/18/2010
Date Data Arrived at EDR: 04/06/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 51

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/13/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/13/2010
Date Data Arrived at EDR: 07/14/2010
Date Made Active in Reports: 08/09/2010
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/14/2010
Next Scheduled EDR Contact: 01/24/2011
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 12/10/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 05/12/2010
Number of Days to Update: 76

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/30/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Biennially

HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/28/2010
Date Data Arrived at EDR: 11/09/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 38

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/09/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Annually

DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 11/19/2010
Date Data Arrived at EDR: 11/19/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 28

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 12/17/2010
Next Scheduled EDR Contact: 04/04/2011
Data Release Frequency: Varies

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 11/16/2010
Date Data Arrived at EDR: 11/19/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 28

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 11/16/2010
Next Scheduled EDR Contact: 01/31/2011
Data Release Frequency: No Update Planned

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 11/02/2010
Date Made Active in Reports: 12/17/2010
Number of Days to Update: 45

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 11/01/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 09/16/2010
Date Data Arrived at EDR: 10/05/2010
Date Made Active in Reports: 11/15/2010
Number of Days to Update: 41

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 12/22/2010
Next Scheduled EDR Contact: 04/11/2011
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/28/2010
Next Scheduled EDR Contact: 01/31/2011
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 12/13/2010
Next Scheduled EDR Contact: 02/07/2011
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 11/09/2009
Date Data Arrived at EDR: 12/18/2009
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/21/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/28/2010
Next Scheduled EDR Contact: 01/31/2011
Data Release Frequency: N/A

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 10/28/2010
Next Scheduled EDR Contact: 01/31/2011
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 10/14/2010
Date Data Arrived at EDR: 10/14/2010
Date Made Active in Reports: 11/15/2010
Number of Days to Update: 32

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 01/10/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/31/2008
Date Data Arrived at EDR: 11/25/2008
Date Made Active in Reports: 12/11/2008
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 01/10/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Varies

FINANCIAL ASSURANCE: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 10/12/2010
Date Data Arrived at EDR: 10/12/2010
Date Made Active in Reports: 11/15/2010
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 01/10/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/10/2010
Next Scheduled EDR Contact: 02/14/2011
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 09/10/2010
Date Data Arrived at EDR: 09/14/2010
Date Made Active in Reports: 11/19/2010
Number of Days to Update: 66

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 11/22/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 09/10/2010
Date Data Arrived at EDR: 09/14/2010
Date Made Active in Reports: 11/19/2010
Number of Days to Update: 66

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 11/22/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/10/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 11/19/2010
Date Data Arrived at EDR: 11/30/2010
Date Made Active in Reports: 12/15/2010
Number of Days to Update: 15

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 11/08/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 05/21/2003
Date Data Arrived at EDR: 05/27/2003
Date Made Active in Reports: 06/09/2003
Number of Days to Update: 13

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 01/10/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 11/19/2010
Date Data Arrived at EDR: 11/30/2010
Date Made Active in Reports: 12/14/2010
Number of Days to Update: 14

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 11/08/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 06/25/2010
Date Data Arrived at EDR: 06/25/2010
Date Made Active in Reports: 08/10/2010
Number of Days to Update: 46

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 12/13/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 06/25/2010
Date Data Arrived at EDR: 06/25/2010
Date Made Active in Reports: 08/10/2010
Number of Days to Update: 46

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 12/13/2010
Next Scheduled EDR Contact: 03/28/2011
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 11/08/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Annually

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 01/11/2007
Date Made Active in Reports: 02/07/2007
Number of Days to Update: 27

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 11/08/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Annually

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 05/05/2005
Date Data Arrived at EDR: 05/31/2005
Date Made Active in Reports: 06/30/2005
Number of Days to Update: 30

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 11/08/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Varies

Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 05/05/2005
Date Data Arrived at EDR: 05/31/2005
Date Made Active in Reports: 06/30/2005
Number of Days to Update: 30

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 11/08/2010
Next Scheduled EDR Contact: 02/21/2011
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 12/01/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/22/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/19/2010
Next Scheduled EDR Contact: 01/31/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 11/22/2010
Next Scheduled EDR Contact: 03/07/2011
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 38

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/29/2010
Next Scheduled EDR Contact: 03/14/2011
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 03/29/2010
Date Data Arrived at EDR: 05/14/2010
Date Made Active in Reports: 06/22/2010
Number of Days to Update: 39

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 10/25/2010
Next Scheduled EDR Contact: 02/07/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/16/2010
Next Scheduled EDR Contact: 04/04/2011
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WASTEBEDS 9 THROUGH 15
GERELOCK RD
SYRACUSE, NY 13209

TARGET PROPERTY COORDINATES

Latitude (North):	43.07100 - 43° 4' 15.6''
Longitude (West):	76.2496 - 76° 14' 58.6''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	398261.1
UTM Y (Meters):	4769242.0
Elevation:	399 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	43076-A2 SYRACUSE WEST, NY
Most Recent Revision:	1978
West Map:	43076-A3 CAMILLUS, NY
Most Recent Revision:	1978

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

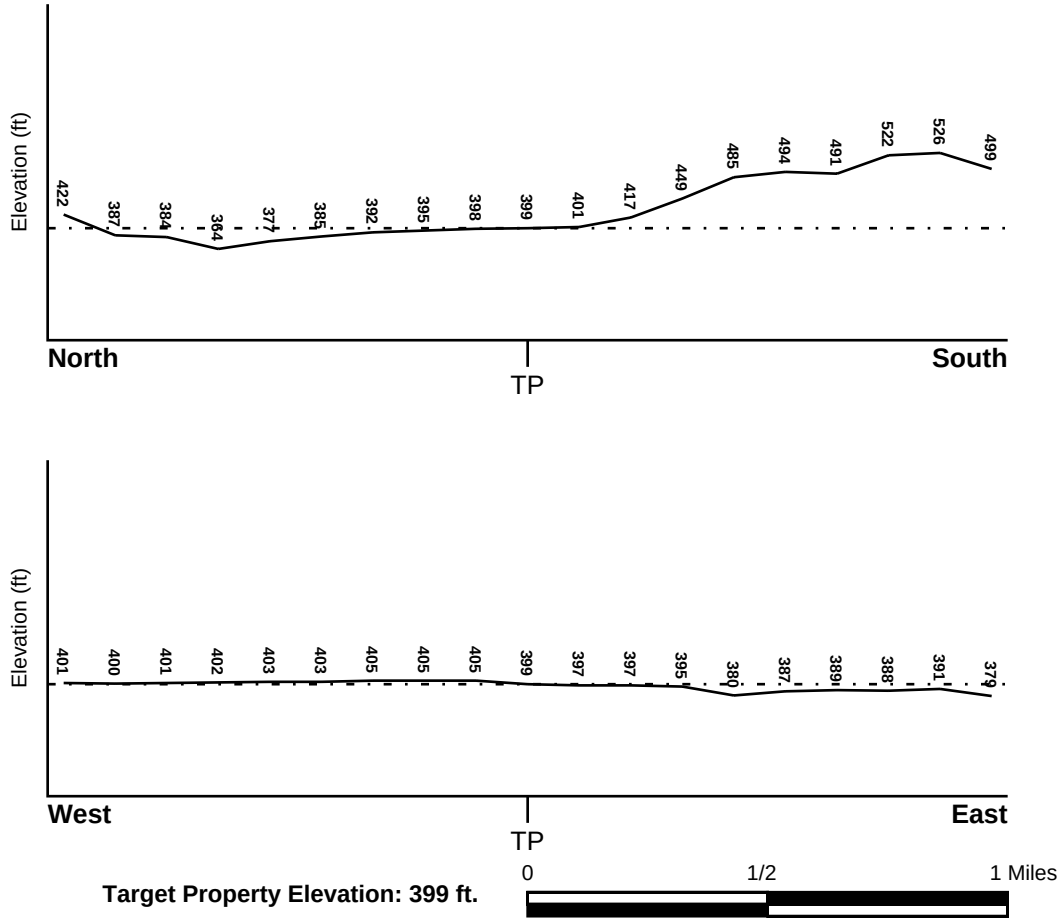
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 399 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
ONONDAGA, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	3605700004C - FEMA Q3 Flood data
Additional Panels in search area:	3605790003C - FEMA Q3 Flood data 00000000000 - FEMA Q3 Flood data 3605700007C - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SYRACUSE WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

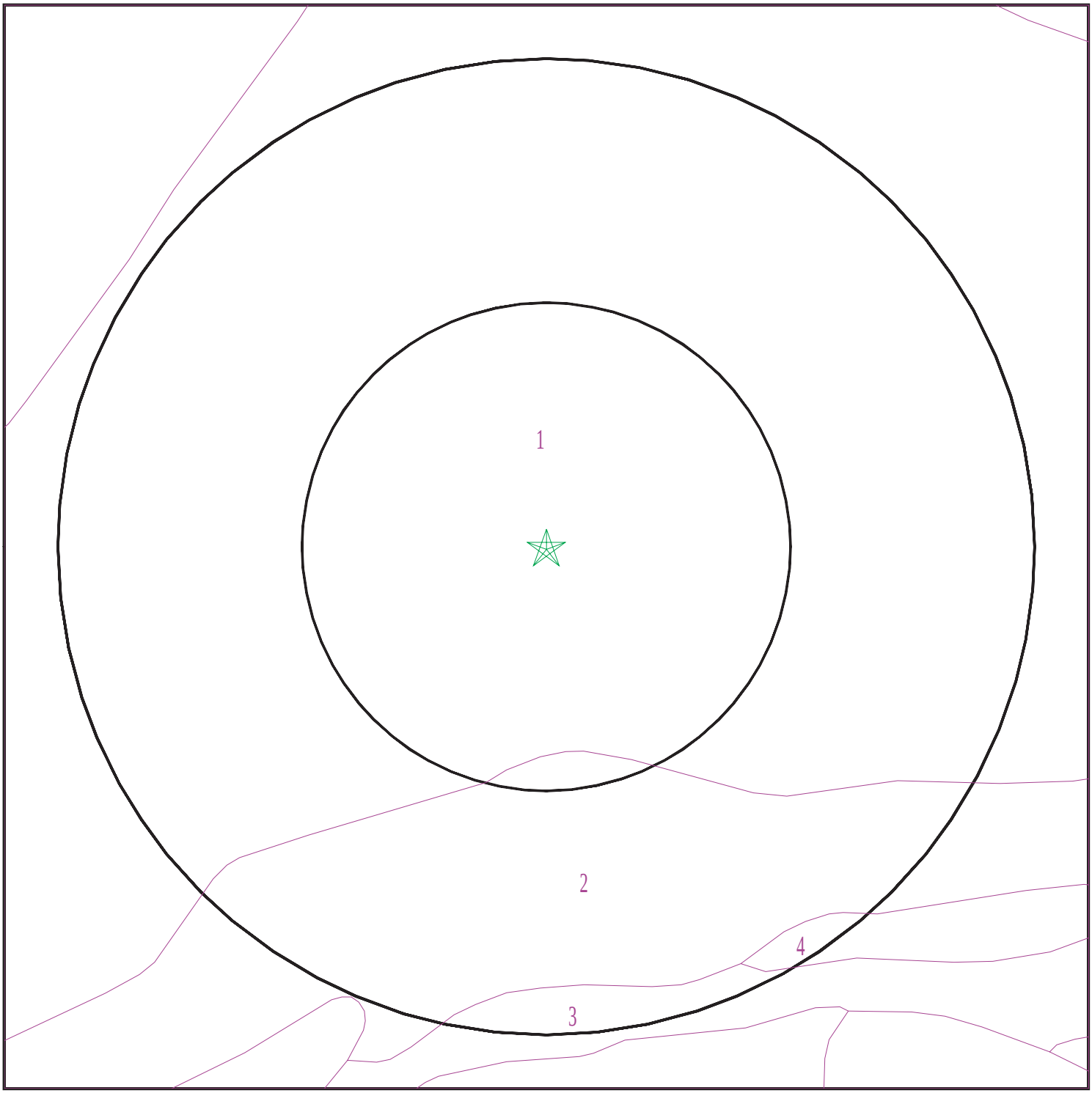
Era:	Paleozoic
System:	Silurian
Series:	Upper Silurian (Cayugan)
Code:	S3 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 02963764.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Wastebeds 9 Through 15	CLIENT:	O Brien & Gere Engineers, Inc.
ADDRESS:	Gerelock Rd Syracuse NY 13209	CONTACT:	Michael Miller
		INQUIRY #:	02963764.2r
LAT/LONG:	43.0710 / 76.2496	DATE:	January 10, 2011 4:52 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name:	Made land
Soil Surface Texture:	
Hydrologic Group:	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:	Moderately well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 122 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name:	Brockport
Soil Surface Texture:	silty clay loam
Hydrologic Group:	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:	Somewhat poorly drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 31 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
2	11 inches	24 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
3	24 inches	33 inches	very channery silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
4	33 inches	37 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 3

Soil Component Name: Lairdsville

Soil Surface Texture: silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 68 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
2	7 inches	24 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
3	24 inches	27 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 4

Soil Component Name: Lairdsville

Soil Surface Texture: silt loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 68 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
2	7 inches	29 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:
3	29 inches	33 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.01 Min: 0	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	2.250
Federal FRDS PWS	Nearest PWS within 1.250 miles
State Database	2.250

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS2207297	1/4 - 1/2 Mile East
A2	USGS2207296	1/4 - 1/2 Mile East
3	USGS2207300	1/2 - 1 Mile East
4	USGS2207304	1/2 - 1 Mile East
5	USGS2207334	1/2 - 1 Mile NE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
6	USGS2207346	1/2 - 1 Mile NW
7	USGS2207303	1/2 - 1 Mile East
8	USGS2207310	1/2 - 1 Mile East
B9	USGS2207396	1/2 - 1 Mile SE
10	USGS2207315	1/2 - 1 Mile ENE
B11	USGS2207394	1 - 2 Miles SE
C12	USGS2207349	1 - 2 Miles ENE
13	USGS2207365	1 - 2 Miles NE
14	USGS2207554	1 - 2 Miles SE
C15	USGS2207354	1 - 2 Miles ENE
16	USGS2207540	1 - 2 Miles SW
17	USGS2207364	1 - 2 Miles ENE
18	USGS2207181	1 - 2 Miles NE
19	USGS2207439	1 - 2 Miles ESE
20	USGS2207199	1 - 2 Miles NE
D21	USGS2207376	1 - 2 Miles ENE
22	USGS2207530	1 - 2 Miles SE
D23	USGS2207339	1 - 2 Miles ENE
D24	USGS2207374	1 - 2 Miles ENE
25	USGS2207184	1 - 2 Miles NE
26	USGS2207413	1 - 2 Miles ESE
27	USGS2207515	1 - 2 Miles SE
E28	USGS2207225	1 - 2 Miles NNE
E29	USGS2207226	1 - 2 Miles NNE
30	USGS2207531	1 - 2 Miles SW
31	USGS2207245	1 - 2 Miles NNE
32	USGS2207197	1 - 2 Miles NE
33	USGS2207520	1 - 2 Miles SW
34	USGS2207360	1 - 2 Miles ENE
35	USGS2207420	1 - 2 Miles ESE
36	USGS2207521	1 - 2 Miles SW
37	USGS2207532	2 - 3 Miles SW
38	USGS2207410	2 - 3 Miles ESE
F39	USGS2207254	2 - 3 Miles NNE
F40	USGS2207253	2 - 3 Miles NNE
41	USGS2207535	2 - 3 Miles WSW
42	USGS2207289	2 - 3 Miles East
43	USGS2207278	2 - 3 Miles East
44	USGS2207251	2 - 3 Miles NNE
45	USGS2207615	2 - 3 Miles SSE
46	USGS2207404	2 - 3 Miles ESE
47	USGS2207284	2 - 3 Miles East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 02963764.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Wastebeds 9 Through 15	CLIENT:	O Brien & Gere Engineers, Inc.
ADDRESS:	Gerelock Rd Syracuse NY 13209	CONTACT:	Michael Miller
		INQUIRY #:	02963764.2r
LAT/LONG:	43.0710 / 76.2496	DATE:	January 10, 2011 4:52 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
East
1/4 - 1/2 Mile
Lower

FED USGS **USGS2207297**

Agency cd:	USGS	Site no:	430417076143001
Site name:	OD1037		
Latitude:	430417	EDR Site id:	USGS2207297
Longitude:	0761430	Dec lat:	43.07145557
Dec lon:	-76.2413163	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	380.5		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19710222
Date inventoried:	20010613	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	35.5
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

A2
East
1/4 - 1/2 Mile
Lower

FED USGS **USGS2207296**

Agency cd:	USGS	Site no:	430416076142901
Site name:	OD1840		
Latitude:	430416	EDR Site id:	USGS2207296
Longitude:	0761429	Dec lat:	43.07117779
Dec lon:	-76.24103851	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST	Map scale:	24000

Altitude:	370		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Flat surface		
Site type:	Spring	Date construction:	Not Reported
Date inventoried:	20030705	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Spring		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	2003-04-30
Water quality data end date:	2003-04-30	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

3
East **FED USGS** **USGS2207300**
1/2 - 1 Mile
Lower

Agency cd:	USGS	Site no:	430418076142201
Site name:	OD1038		
Latitude:	430418	EDR Site id:	USGS2207300
Longitude:	0761422	Dec lat:	43.07173336
Dec lon:	-76.239094	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	381.5		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19710223
Date inventoried:	20010613	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	17.8
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

4
East
1/2 - 1 Mile
Lower

FED USGS **USGS2207304**

Agency cd:	USGS	Site no:	430420076141401
Site name:	OD1035		
Latitude:	430420	EDR Site id:	USGS2207304
Longitude:	0761414	Dec lat:	43.07228892
Dec lon:	-76.23687171	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	376.4		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19710224
Date inventoried:	20010613	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	24
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

5
NE
1/2 - 1 Mile
Lower

FED USGS **USGS2207334**

Agency cd:	USGS	Site no:	430437076141901
Site name:	OD1027		
Latitude:	430437	EDR Site id:	USGS2207334
Longitude:	0761419	Dec lat:	43.07701119
Dec lon:	-76.23826066	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	377.5		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19870106
Date inventoried:	20010608	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	112.4
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

6
NW
1/2 - 1 Mile
Lower

FED USGS **USGS2207346**

Agency cd:	USGS	Site no:	430442076153801
Site name:	OD 534		
Latitude:	430442	EDR Site id:	USGS2207346
Longitude:	0761538	Dec lat:	43.07840007
Dec lon:	-76.26020594	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	CAMILLUS I-15-3	Map scale:	24000
Altitude:	380.3		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19830707
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	101
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

7
East **FED USGS** **USGS2207303**
1/2 - 1 Mile
Lower

Agency cd:	USGS	Site no:	430420076140301
Site name:	OD1081		
Latitude:	430420	EDR Site id:	USGS2207303
Longitude:	0761403	Dec lat:	43.07228892
Dec lon:	-76.23381605	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	374.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19650503
Date inventoried:	20010713	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	85
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

8
East
1/2 - 1 Mile
Lower

FED USGS **USGS2207310**

Agency cd:	USGS	Site no:	430423076135901
Site name:	OD1082		
Latitude:	430423	EDR Site id:	USGS2207310
Longitude:	0761359	Dec lat:	43.07312227
Dec lon:	-76.23270491	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	378.1		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19650531
Date inventoried:	20010713	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	80.0
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

B9
SE
1/2 - 1 Mile
Higher

FED USGS **USGS2207396**

Agency cd:	USGS	Site no:	430339076141301
Site name:	OD1076		
Latitude:	430339	EDR Site id:	USGS2207396
Longitude:	0761413	Dec lat:	43.06089991
Dec lon:	-76.23659388	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000

Altitude:	493.9		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19650412
Date inventoried:	20010713	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	56.5
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

10
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS2207315**

Agency cd:	USGS	Site no:	430427076135201
Site name:	OD1083		
Latitude:	430427	EDR Site id:	USGS2207315
Longitude:	0761352	Dec lat:	43.07423339
Dec lon:	-76.23076041	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	369.5		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19650416
Date inventoried:	20010713	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	85.0
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

B11
SE **FED USGS** **USGS2207394**
1 - 2 Miles
Higher

Agency cd:	USGS	Site no:	430338076140901
Site name:	OD1077		
Latitude:	430338	EDR Site id:	USGS2207394
Longitude:	0761409	Dec lat:	43.06062213
Dec lon:	-76.23548273	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	452.6		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19650412
Date inventoried:	20010713	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	34.0
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

C12
ENE **FED USGS** **USGS2207349**
1 - 2 Miles
Lower

Agency cd:	USGS	Site no:	430443076134101
Site name:	OD1079		
Latitude:	430443	EDR Site id:	USGS2207349
Longitude:	0761341	Dec lat:	43.07867789
Dec lon:	-76.22770477	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	368.2		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19690324
Date inventoried:	20010713	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	95.0
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

13
NE
1 - 2 Miles
Lower

FED USGS **USGS2207365**

Agency cd:	USGS	Site no:	430454076135001
Site name:	OD1028		
Latitude:	430454	EDR Site id:	USGS2207365
Longitude:	0761350	Dec lat:	43.08173347
Dec lon:	-76.23020486	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	381.8		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19871029
Date inventoried:	20010608	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	96.7
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

14
SE
1 - 2 Miles
Higher

FED USGS **USGS2207554**

Agency cd:	USGS	Site no:	430322076140901
Site name:	OD1075		
Latitude:	430322	EDR Site id:	USGS2207554
Longitude:	0761409	Dec lat:	43.05617764
Dec lon:	-76.23548271	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	417.9		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19650406
Date inventoried:	20010713	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	10
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C15
ENE
1 - 2 Miles
Lower

FED USGS **USGS2207354**

Agency cd:	USGS	Site no:	430445076134001
Site name:	OD1080		
Latitude:	430445	EDR Site id:	USGS2207354
Longitude:	0761340	Dec lat:	43.07923345
Dec lon:	-76.22742698	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	367.6		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19690328
Date inventoried:	20010713	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	97.5
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

16
SW
1 - 2 Miles
Higher

FED USGS **USGS2207540**

Agency cd:	USGS	Site no:	430317076155701
Site name:	OD1063		
Latitude:	430317	EDR Site id:	USGS2207540
Longitude:	0761557	Dec lat:	43.0547887
Dec lon:	-76.26548383	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	CAMILLUS I-15-3	Map scale:	24000

Altitude:	414.9		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19650510
Date inventoried:	20010703	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	24.5
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

17
ENE
1 - 2 Miles
Lower

FED USGS **USGS2207364**

Agency cd:	USGS	Site no:	430454076133301
Site name:	OD1078		
Latitude:	430454	EDR Site id:	USGS2207364
Longitude:	0761333	Dec lat:	43.08173348
Dec lon:	-76.22548248	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	373.9		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19691031
Date inventoried:	20010713	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	100.8
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported

Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

18
NE
1 - 2 Miles
Lower

FED USGS **USGS2207181**

Agency cd:	USGS	Site no:	430505076133701
Site name:	OD1801		
Latitude:	430505	EDR Site id:	USGS2207181
Longitude:	0761337	Dec lat:	43.08478906
Dec lon:	-76.22659364	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	424.9		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	198203
Date inventoried:	20021118	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	167
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1982-03-00	Ground water data end date:	1982-03-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1982-03	51	

19
ESE
1 - 2 Miles
Lower

FED USGS **USGS2207439**

Agency cd:	USGS	Site no:	430354076131601
Site name:	OD1034		
Latitude:	430354	EDR Site id:	USGS2207439
Longitude:	0761316	Dec lat:	43.06506664
Dec lon:	-76.22076005	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19961029
Date inventoried:	20010613	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	48
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

20
NE
1 - 2 Miles
Lower

FED USGS **USGS2207199**

Agency cd:	USGS	Site no:	430518076135201
Site name:	OD 570		
Latitude:	430518	EDR Site id:	USGS2207199
Longitude:	0761352	Dec lat:	43.08840021
Dec lon:	-76.23076046	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	374.1		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	79
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

D21
ENE **FED USGS** **USGS2207376**
1 - 2 Miles
Higher

Agency cd:	USGS	Site no:	430459076132601
Site name:	OD1803		
Latitude:	430459	EDR Site id:	USGS2207376
Longitude:	0761326	Dec lat:	43.08312238
Dec lon:	-76.22353798	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	436.6		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19790510
Date inventoried:	20021118	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	136
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1979-05-10	Ground water data end date:	1979-05-10
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1979-05-10	30.8	

22
SE
1 - 2 Miles
Higher

FED USGS **USGS2207530**

Agency cd:	USGS	Site no:	430315076134501
Site name:	OD 259		
Latitude:	430315	EDR Site id:	USGS2207530
Longitude:	0761345	Dec lat:	43.05423318
Dec lon:	-76.22881582	Coor meth:	M
Coor accr:	M	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	ORB 2 PL 3	Map scale:	25000
Altitude:	420.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	SILURIAN, UPPER		
Well depth:	18.0	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

D23
ENE
1 - 2 Miles
Higher

FED USGS **USGS2207339**

Agency cd:	USGS	Site no:	430439076143701
Site name:	OD1026		
Latitude:	430458	EDR Site id:	USGS2207339
Longitude:	0761323	Dec lat:	43.0828446
Dec lon:	-76.22270462	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	386.0		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19871022
Date inventoried:	20010608	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	141.0
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

D24
ENE
1 - 2 Miles
Higher

FED USGS **USGS2207374**

Agency cd:	USGS	Site no:	430458076132302
Site name:	OD1832		
Latitude:	430458	EDR Site id:	USGS2207374
Longitude:	0761323	Dec lat:	43.0828446
Dec lon:	-76.22270462	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	386		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20031015	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	160
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

25
NE
1 - 2 Miles
Higher

FED USGS **USGS2207184**

Agency cd:	USGS	Site no:	430507076133101
Site name:	OD1802		
Latitude:	430507	EDR Site id:	USGS2207184
Longitude:	0761331	Dec lat:	43.08534463
Dec lon:	-76.22492692	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	434.4		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19790510
Date inventoried:	20021118	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	135
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1979-05-10	Ground water data end date:	1979-05-10
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1979-05-10	37.3	

26
ESE **FED USGS** **USGS2207413**
1 - 2 Miles
Higher

Agency cd:	USGS	Site no:	430346076131001
Site name:	OD 270		
Latitude:	430346	EDR Site id:	USGS2207413
Longitude:	0761310	Dec lat:	43.0628444
Dec lon:	-76.21909332	Coor meth:	M
Coor accr:	M	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	ORB 2 PL 3	Map scale:	25000
Altitude:	390.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	SILURIAN, UPPER		
Well depth:	300	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1952-01-01	Ground water data end date:	1952-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1952-01-01	10.00	

27
SE **FED USGS** **USGS2207515**
1 - 2 Miles
Higher

Agency cd:	USGS	Site no:	430312076133801
Site name:	OD1074		
Latitude:	430312	EDR Site id:	USGS2207515
Longitude:	0761338	Dec lat:	43.05339984
Dec lon:	-76.22687131	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	427.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19650409
Date inventoried:	20010713	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	27
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

E28
NNE
1 - 2 Miles
Lower

FED USGS **USGS2207225**

Agency cd:	USGS	Site no:	430535076135401
Site name:	OD1831		
Latitude:	430535	EDR Site id:	USGS2207225
Longitude:	0761354	Dec lat:	43.09312248
Dec lon:	-76.23131605	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	363		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	20030913
Date inventoried:	20031015	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	152.5
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

E29
NNE
1 - 2 Miles
Lower

FED USGS **USGS2207226**

Agency cd:	USGS	Site no:	430535076135402
Site name:	OD1836		
Latitude:	430535	EDR Site id:	USGS2207226
Longitude:	0761354	Dec lat:	43.09312248
Dec lon:	-76.23131605	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	363		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	20030913
Date inventoried:	20031015	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	152.5
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

30
SW
1 - 2 Miles
Higher

FED USGS **USGS2207531**

Agency cd:	USGS	Site no:	430315076163701
Site name:	OD1062		
Latitude:	430315	EDR Site id:	USGS2207531
Longitude:	0761637	Dec lat:	43.05423313
Dec lon:	-76.27659541	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	CAMILLUS I-15-3	Map scale:	24000
Altitude:	464.8		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19640630
Date inventoried:	20010703	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	20.3
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

31
NNE
1 - 2 Miles
Lower

FED USGS **USGS2207245**

Agency cd:	USGS	Site no:	430548076142301
Site name:	OD 569		
Latitude:	430548	EDR Site id:	USGS2207245
Longitude:	0761423	Dec lat:	43.09673362
Dec lon:	-76.23937189	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000

Altitude:	373		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	56
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

32
NE
1 - 2 Miles
Higher

FED USGS **USGS2207197**

Agency cd:	USGS	Site no:	430517076131701
Site name:	OD1800		
Latitude:	430517	EDR Site id:	USGS2207197
Longitude:	0761317	Dec lat:	43.08812244
Dec lon:	-76.22103791	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	410.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	198203
Date inventoried:	20021118	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	140
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1982-03-00	Ground water data end date:	1982-03-00
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1982-03	37.5	

33
SW
1 - 2 Miles
Higher

FED USGS **USGS2207520**

Agency cd:	USGS	Site no:	430313076164201
Site name:	OD1061		
Latitude:	430313	EDR Site id:	USGS2207520
Longitude:	0761642	Dec lat:	43.05367757
Dec lon:	-76.27798435	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	CAMILLUS I-15-3	Map scale:	24000
Altitude:	456.2		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19640619
Date inventoried:	20010703	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	55.3
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

34
ENE
1 - 2 Miles
Higher

FED USGS **USGS2207360**

Agency cd:	USGS	Site no:	430449076125301
Site name:	OD1799		
Latitude:	430449	EDR Site id:	USGS2207360
Longitude:	0761253	Dec lat:	43.08034459
Dec lon:	-76.214371	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	431.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19820315
Date inventoried:	20021118	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	134
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1982-03-15	Ground water data end date:	1982-03-15
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1982-03-15	34	

35
ESE
1 - 2 Miles
Higher

FED USGS **USGS2207420**

Agency cd:	USGS	Site no:	430349076124501
Site name:	OD1534		
Latitude:	430349	EDR Site id:	USGS2207420
Longitude:	0761245	Dec lat:	43.06367775
Dec lon:	-76.21214865	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	410.4		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19870731
Date inventoried:	20010723	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	41.7
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

36
SW
1 - 2 Miles
Higher

FED USGS **USGS2207521**

Agency cd:	USGS	Site no:	430313076165101
Site name:	OD1060		
Latitude:	430313	EDR Site id:	USGS2207521
Longitude:	0761651	Dec lat:	43.05367756
Dec lon:	-76.28048446	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	CAMILLUS I-15-3	Map scale:	24000
Altitude:	454		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19640622
Date inventoried:	20010703	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	41.5
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

37
SW
2 - 3 Miles
Higher | **FED USGS** | **USGS2207532**

Agency cd:	USGS	Site no:	430315076165701
Site name:	OD1059		
Latitude:	430315	EDR Site id:	USGS2207532
Longitude:	0761657	Dec lat:	43.05423312
Dec lon:	-76.2821512	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	CAMILLUS I-15-3	Map scale:	24000
Altitude:	409.5		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19640825
Date inventoried:	20010703	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	31.5
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

38
ESE
2 - 3 Miles
Higher | **FED USGS** | **USGS2207410**

Agency cd:	USGS	Site no:	430345076123901
Site name:	OD 478		
Latitude:	430345	EDR Site id:	USGS2207410
Longitude:	0761239	Dec lat:	43.06256662
Dec lon:	-76.21048193	Coor meth:	M
Coor accr:	M	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	ORB 2 PL 3	Map scale:	25000

Altitude:	400.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	257	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1976-09-16	Ground water data end date:	1976-09-16
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1976-09-16	56.00	

F39
NNE
2 - 3 Miles
Lower

FED USGS **USGS2207254**

Agency cd:	USGS	Site no:	430601076143102
Site name:	OD1849		
Latitude:	430601.19	EDR Site id:	USGS2207254
Longitude:	0761430.55	Dec lat:	43.10039755
Dec lon:	-76.2414692	Coor meth:	M
Coor accr:	5	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST	Map scale:	24000
Altitude:	370		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	20041130
Date inventoried:	20041202	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Mixed - confined and unconfined multiple aquifers		
Aquifer:	Not Reported		
Well depth:	145.0	Hole depth:	145.4
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	2004-11-30	Ground water data end date:	2004-11-30
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2004-11-30	2.04	

F40
NNE
2 - 3 Miles
Lower

FED USGS **USGS2207253**

Agency cd:	USGS	Site no:	430601076143101
Site name:	OD1848		
Latitude:	430601.19	EDR Site id:	USGS2207253
Longitude:	0761430.55	Dec lat:	43.10039755
Dec lon:	-76.2414692	Coor meth:	M
Coor accr:	5	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST	Map scale:	24000
Altitude:	370		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	20041130
Date inventoried:	20041202	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Mixed - confined and unconfined multiple aquifers		
Aquifer:	Not Reported		
Well depth:	100	Hole depth:	145.4
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	2004-11-30	Ground water data end date:	2004-11-30
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2004-11-30	-2.38	

41
WSW
2 - 3 Miles
Higher

FED USGS **USGS2207535**

Agency cd:	USGS	Site no:	430316076170801
Site name:	OD1058		
Latitude:	430316	EDR Site id:	USGS2207535
Longitude:	0761708	Dec lat:	43.0545109
Dec lon:	-76.28520689	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	CAMILLUS I-15-3	Map scale:	24000
Altitude:	408.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	0.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19640825
Date inventoried:	20010703	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	69.3
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

42
East
2 - 3 Miles
Lower

FED USGS **USGS2207289**

Agency cd:	USGS	Site no:	430412076122601
Site name:	OD1031		
Latitude:	430412	EDR Site id:	USGS2207289
Longitude:	0761226	Dec lat:	43.07006671
Dec lon:	-76.20687072	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	373.6		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19910115
Date inventoried:	20010608	Mean greenwich time offset:	EST

Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	67
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

43
East
2 - 3 Miles
Lower

FED USGS **USGS2207278**

Agency cd:	USGS	Site no:	430406076122601
Site name:	OD1036		
Latitude:	430406	EDR Site id:	USGS2207278
Longitude:	0761226	Dec lat:	43.06840002
Dec lon:	-76.20687072	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	377.0		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19710106
Date inventoried:	20010613	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	20.3
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

44
NNE
2 - 3 Miles
Lower

FED USGS **USGS2207251**

Agency cd:	USGS	Site no:	430556076134401
Site name:	OD1852		
Latitude:	430555.8	EDR Site id:	USGS2207251
Longitude:	0761343.8	Dec lat:	43.09883333
Dec lon:	-76.22883333	Coor meth:	G
Coor accr:	5	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	ONONDAGA WEST	Map scale:	24000
Altitude:	363		
Altitude method:	Reported		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Lake, swamp or marsh		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	20041202	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

45
SSE
2 - 3 Miles
Higher

FED USGS **USGS2207615**

Agency cd:	USGS	Site no:	430239076133301
Site name:	OD1721		
Latitude:	430239	EDR Site id:	USGS2207615
Longitude:	0761333	Dec lat:	43.04423308
Dec lon:	-76.22548235	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000

Altitude:	494		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19640521
Date inventoried:	20020211	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	43.5
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

46
ESE
2 - 3 Miles
Higher

FED USGS **USGS2207404**

Agency cd:	USGS	Site no:	430342076122801
Site name:	OD 269		
Latitude:	430342	EDR Site id:	USGS2207404
Longitude:	0761228	Dec lat:	43.06173329
Dec lon:	-76.20742627	Coor meth:	M
Coor accr:	M	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	ORB 2 PL 3	Map scale:	25000
Altitude:	400.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	BEDROCK		
Well depth:	200	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1953-01-01	Ground water data end date:	1953-01-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1953-01-01	35.00	

47
East
2 - 3 Miles
Higher

FED USGS **USGS2207284**

Agency cd:	USGS	Site no:	430407076122101
Site name:	OD1033		
Latitude:	430407	EDR Site id:	USGS2207284
Longitude:	0761221	Dec lat:	43.06867781
Dec lon:	-76.20548179	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	36
State:	36	County:	067
Country:	US	Land net:	Not Reported
Location map:	SYRACUSE WEST I-16-4	Map scale:	24000
Altitude:	404.1		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.1		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Seneca. New York. Area = 3430 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19910104
Date inventoried:	20010608	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Test hole, not completed as a well		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	91
Source of depth data:	driller		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: NY Radon

Radon Test Results

County	Town	Num Tests	Avg Result	Geo Mean	Max Result
ONONDAGA	CAMILLUS	923	11.39	6.03	188.3
ONONDAGA	CICERO	243	1.79	1.21	21.8
ONONDAGA	CLAY	306	1.85	1.13	23.9
ONONDAGA	DE WITT	704	9.31	3.79	234.6
ONONDAGA	ELBRIDGE	124	13.12	6.24	96.1
ONONDAGA	FABIUS	20	5.48	3.36	26.5
ONONDAGA	GEDDES	276	9.46	4.88	99.3
ONONDAGA	LAFAYETTE	98	7.27	4.13	95.6
ONONDAGA	LYSANDER	243	3.69	1.98	89.1
ONONDAGA	MANLIUS	1,384	11.6	5.13	341.8
ONONDAGA	MARCELLUS	245	5.96	3.38	98
ONONDAGA	ONONDAGA	262	10.99	6.07	89.4
ONONDAGA	OTISCO	19	7.73	3.69	40.1
ONONDAGA	POMPEY	102	6.72	4.6	35
ONONDAGA	SALINA	412	2.29	1.46	47.2
ONONDAGA	SKANEATELES	192	4.43	2.38	105.7
ONONDAGA	SPAFFORD	16	3.66	2.32	8.8
ONONDAGA	SYRACUSE	2,172	6.69	3.46	142.6
ONONDAGA	TULLY	124	16.39	8.21	106
ONONDAGA	VAN BUREN	101	6.05	2.15	70.1

Federal EPA Radon Zone for ONONDAGA County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for ONONDAGA COUNTY, NY

Number of sites tested: 476

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.760 pCi/L	76%	21%	3%
Basement	3.000 pCi/L	62%	29%	9%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8056
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Wastebeds 9 Through 15
Gerelock Rd
Syracuse, NY 13209

Inquiry Number: 2963764.3
January 10, 2011

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

1/10/11

Site Name:
Wastebeds 9 Through 15
Gerelock Rd
Syracuse, NY 13209

Client Name:
O'Brien & Gere Engineers, Inc.
333 W. Washington Street
Syracuse, NY 13221-0000

EDR Inquiry # 2963764.3

Contact: Michael Miller

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by O'Brien & Gere Engineers, Inc. were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Wastebeds 9 Through 15
Address: Gerelock Rd
City, State, Zip: Syracuse, NY 13209
Cross Street:
P.O. # 10055311
Project: Wastebeds 9-15
Certification # FE61-4662-9D4E

Sanborn® Library search results
Certification # FE61-4662-9D4E

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Wastebeds 9 Through 15
Gerelock Rd
Syracuse, NY 13209

Inquiry Number: 2963764.4
January 10, 2011

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

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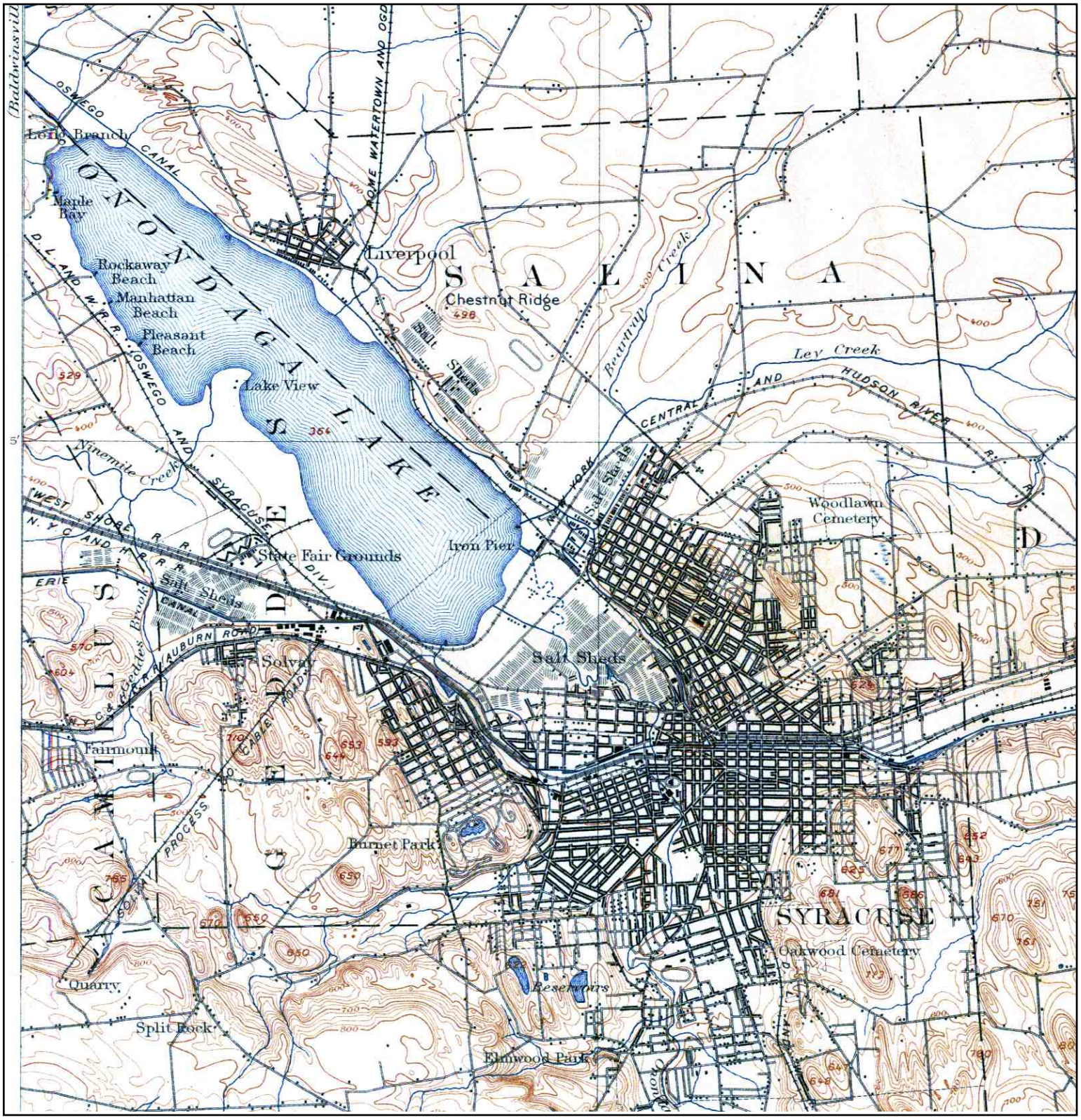
Historical Topographic Map



N	TARGET QUAD NAME: SYRACUSE MAP YEAR: 1898 SERIES: 15 SCALE: 1:62500	SITE NAME: Wastebeds 9 Through 15 ADDRESS: Gerelock Rd Syracuse, NY 13209 LAT/LONG: 43.071 / -76.2496	CLIENT: O'Brien & Gere Engineers, Inc. CONTACT: Michael Miller INQUIRY#: 2963764.4 RESEARCH DATE: 01/10/2011

Historical Topographic Map



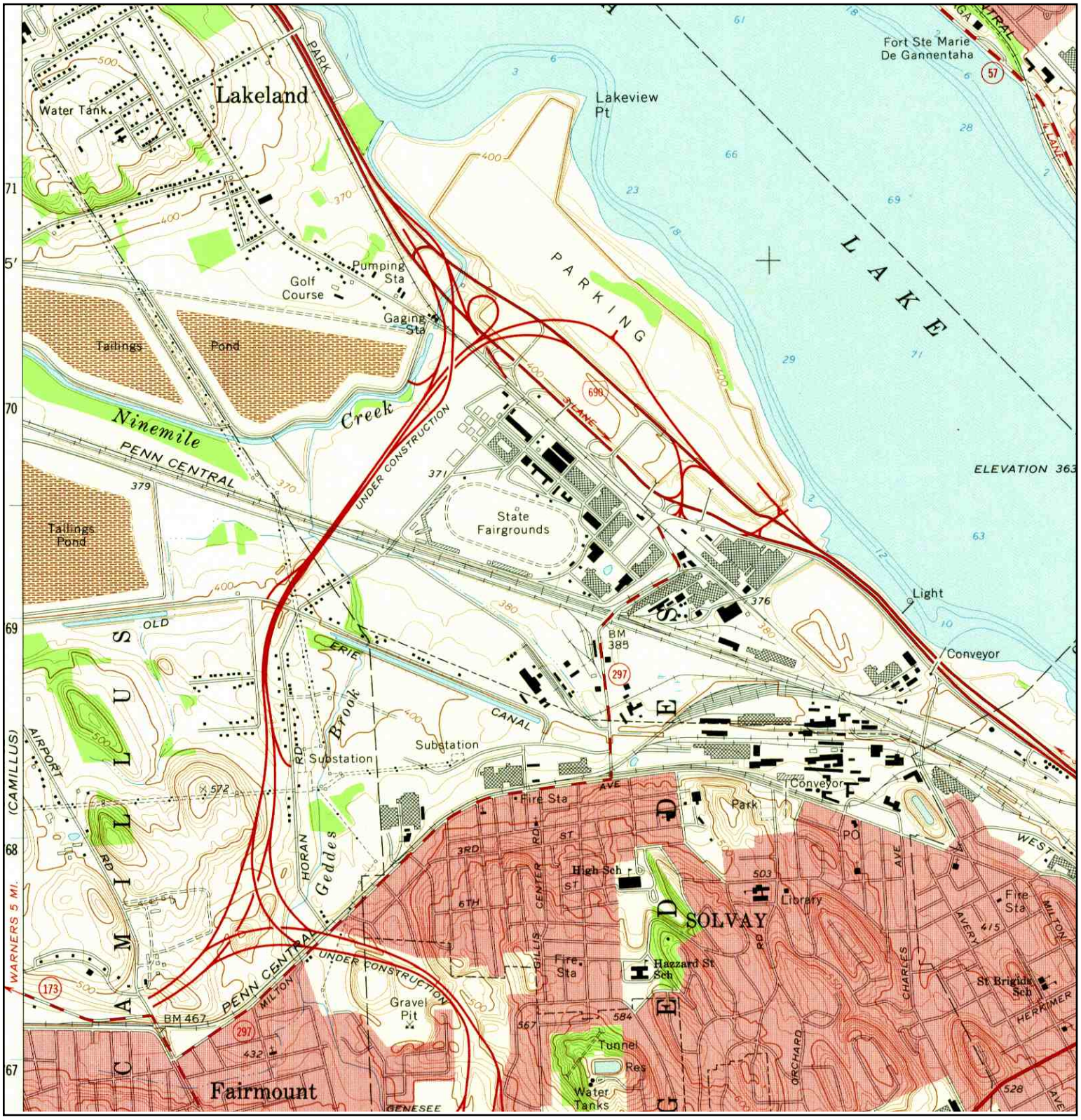
N	TARGET QUAD NAME: SYRACUSE WEST MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:31680	SITE NAME: Wastebeds 9 Through 15 ADDRESS: Gerelock Rd Syracuse, NY 13209 LAT/LONG: 43.071 / -76.2496	CLIENT: O'Brien & Gere Engineers, Inc. CONTACT: Michael Miller INQUIRY#: 2963764.4 RESEARCH DATE: 01/10/2011

Historical Topographic Map



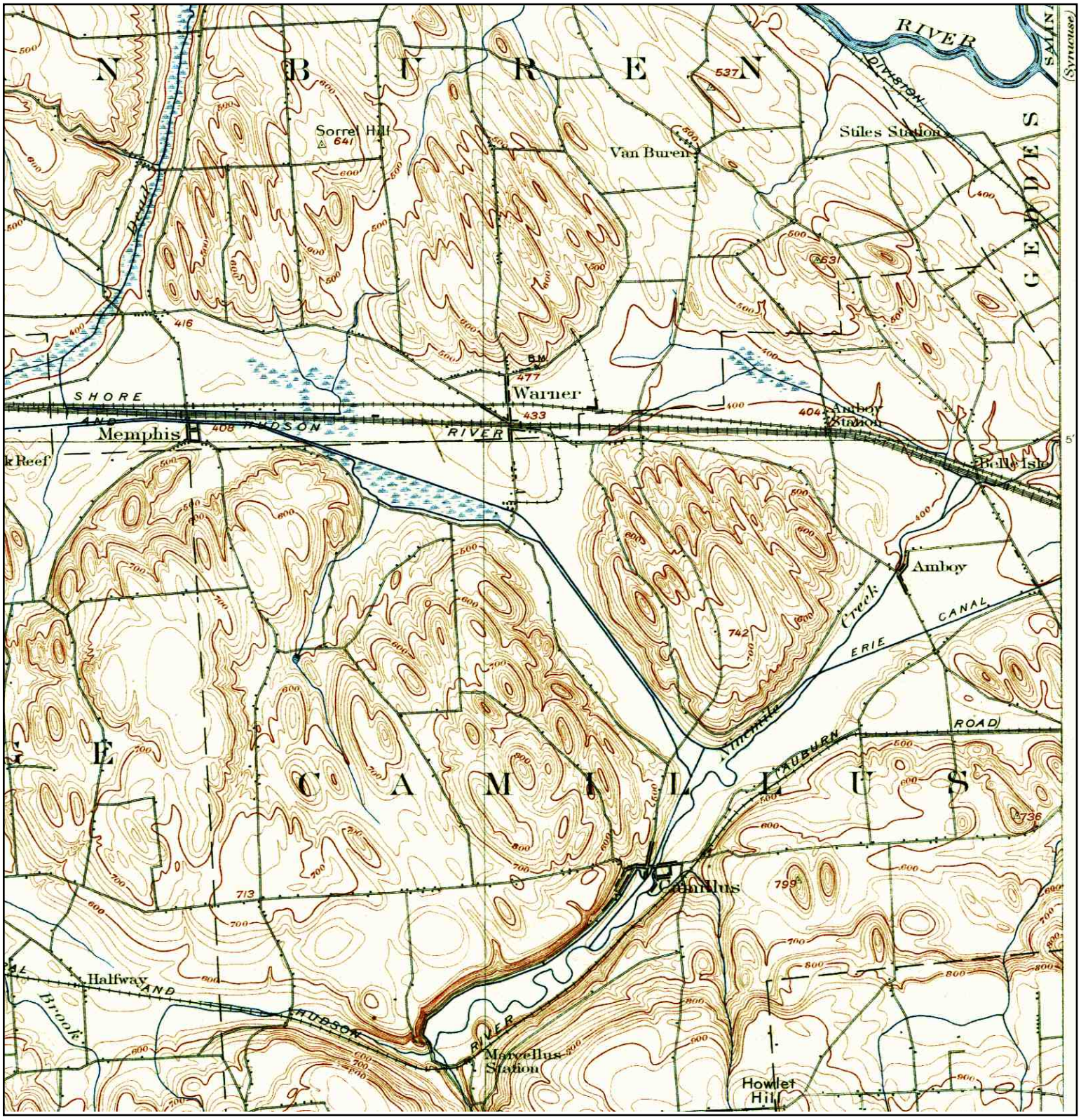
N	TARGET QUAD NAME: SYRACUSE WEST MAP YEAR: 1958 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Wastebeds 9 Through 15 ADDRESS: Gerelock Rd Syracuse, NY 13209 LAT/LONG: 43.071 / -76.2496	CLIENT: O'Brien & Gere Engineers, Inc. CONTACT: Michael Miller INQUIRY#: 2963764.4 RESEARCH DATE: 01/10/2011

Historical Topographic Map



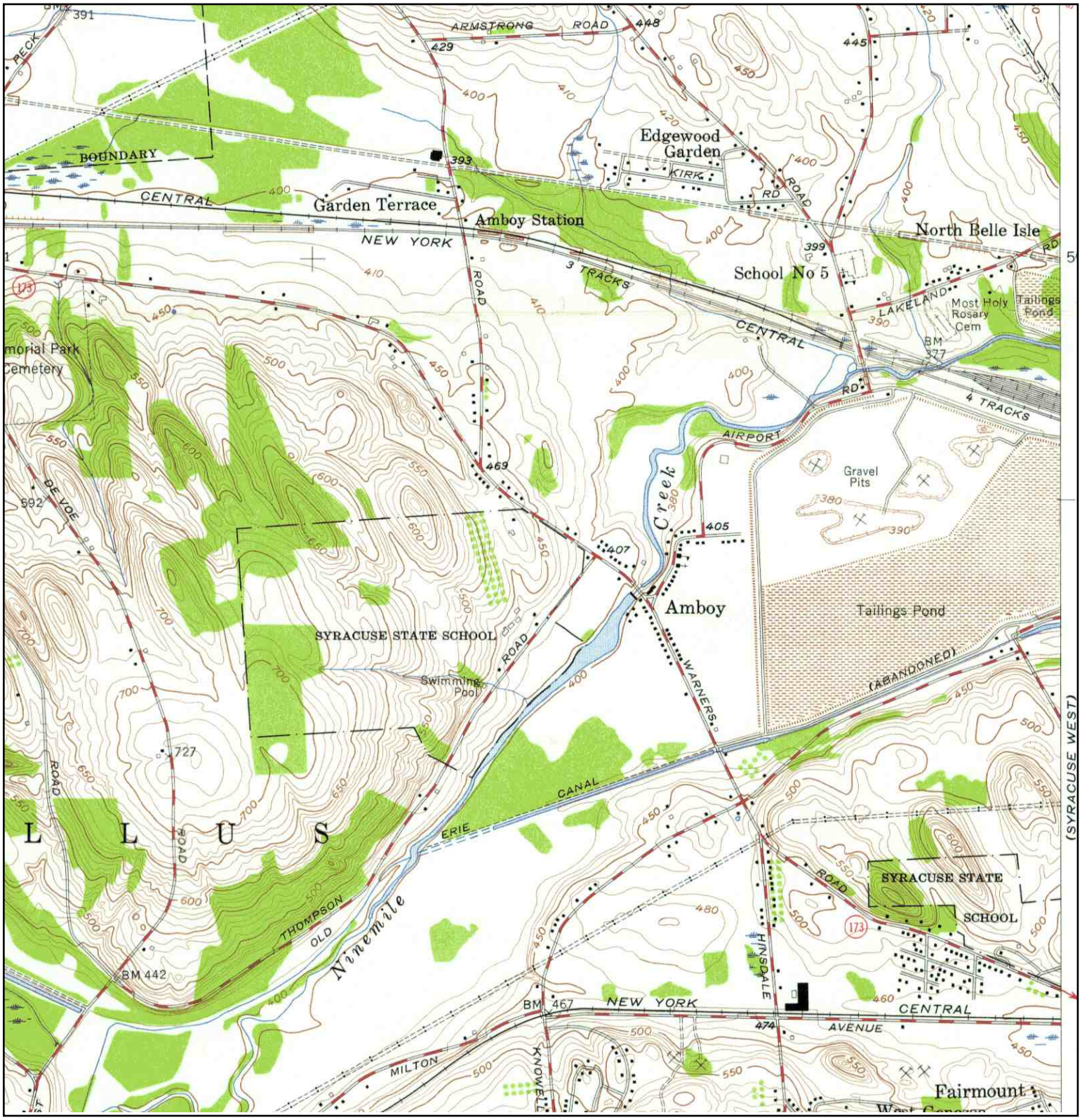
N	TARGET QUAD NAME: SYRACUSE WEST MAP YEAR: 1973 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Wastebeds 9 Through 15 ADDRESS: Gerelock Rd Syracuse, NY 13209 LAT/LONG: 43.071 / -76.2496	CLIENT: O'Brien & Gere Engineers, Inc. CONTACT: Michael Miller INQUIRY#: 2963764.4 RESEARCH DATE: 01/10/2011

Historical Topographic Map



N	ADJOINING QUAD				
	NAME:	BALDWINSVILLE	SITE NAME:	Wastebeds 9 Through 15	CLIENT: O'Brien & Gere Engineers, Inc.
	MAP YEAR:	1900	ADDRESS:	Gerelock Rd	CONTACT: Michael Miller
				Syracuse, NY 13209	INQUIRY#: 2963764.4
	SERIES:	15	LAT/LONG:	43.071 / -76.2496	RESEARCH DATE: 01/10/2011
	SCALE:	1:62500			

Historical Topographic Map



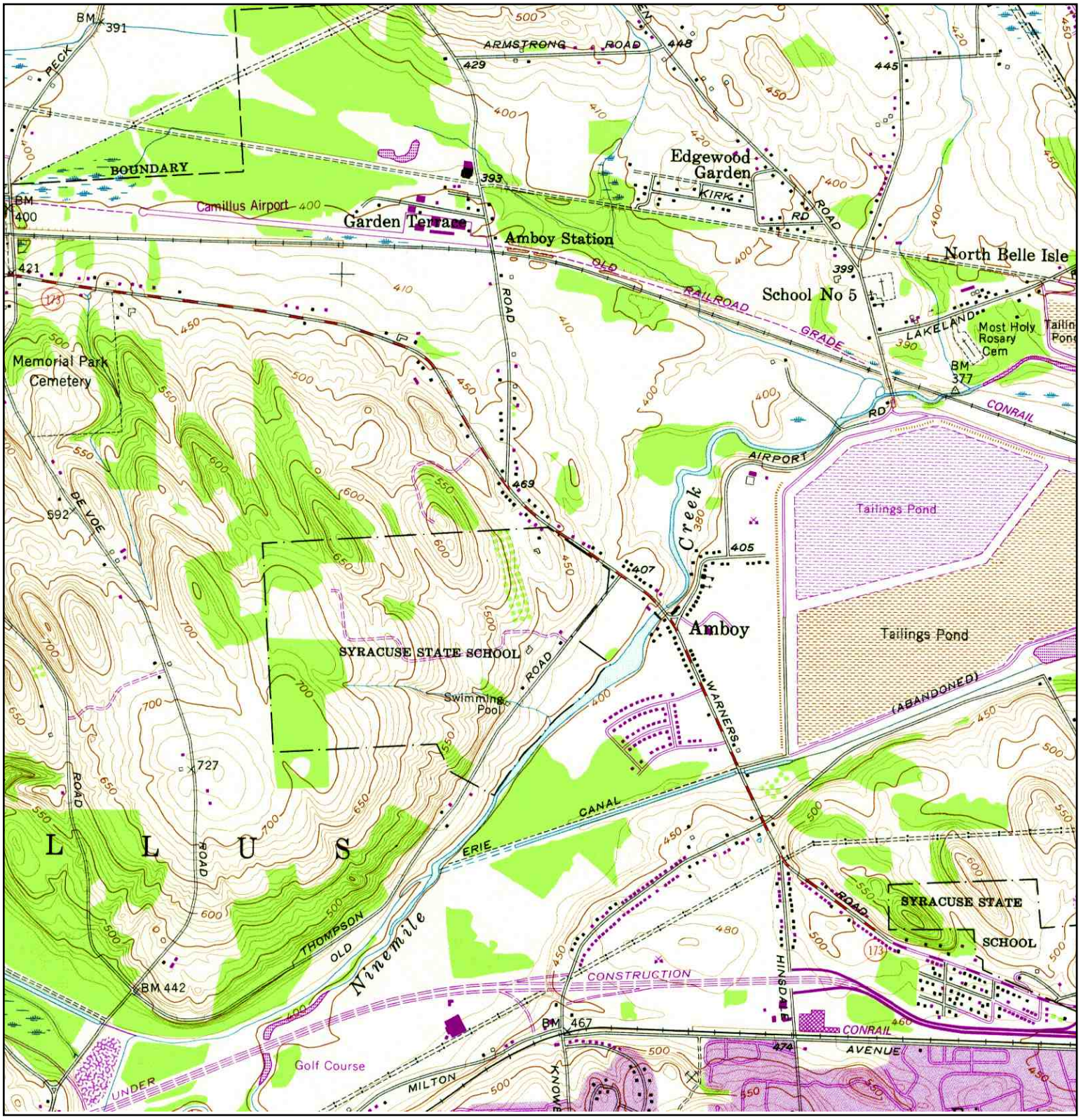
N	ADJOINING QUAD		
	NAME: CAMILLUS	SITE NAME: Wastebeds 9 Through 15	CLIENT: O'Brien & Gere Engineers, Inc.
	MAP YEAR: 1955	ADDRESS: Gerelock Rd	CONTACT: Michael Miller
		Syracuse, NY 13209	INQUIRY#: 2963764.4
	SERIES: 7.5	LAT/LONG: 43.071 / -76.2496	RESEARCH DATE: 01/10/2011
	SCALE: 1:24000		

Historical Topographic Map



N	ADJOINING QUAD		
	NAME: BALDWINSVILLE	SITE NAME: Wastebeds 9 Through 15	CLIENT: O'Brien & Gere Engineers, Inc.
	MAP YEAR: 1957	ADDRESS: Gerelock Rd	CONTACT: Michael Miller
		Syracuse, NY 13209	INQUIRY#: 2963764.4
	SERIES: 15	LAT/LONG: 43.071 / -76.2496	RESEARCH DATE: 01/10/2011
	SCALE: 1:62500		

Historical Topographic Map



N	ADJOINING QUAD NAME: CAMILLUS MAP YEAR: 1978 PHOTOREVISED:1955 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Wastebeds 9 Through 15 ADDRESS: Gerelock Rd Syracuse, NY 13209 LAT/LONG: 43.071 / -76.2496	CLIENT: O'Brien & Gere Engineers, Inc. CONTACT: Michael Miller INQUIRY#: 2963764.4 RESEARCH DATE: 01/10/2011

Wastebeds 9 Through 15
Gerelock Rd
Syracuse, NY 13209

Inquiry Number: 2963764.5
January 13, 2011

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EDR® Environmental Data Resources Inc

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Milford, CT 06461
800.352.0050
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Date EDR Searched Historical Sources:

Aerial Photography January 13, 2011

Target Property:

Gerelock Rd

Syracuse, NY 13209

Year	*Scale*	*Details*	*Source*
1959	Aerial Photograph. Scale: 1"=500'	Panel #: 43076-A3, Camillus, NY;/Flight Date: May 31, 1959	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 43076-A3, Camillus, NY;/Flight Date: June 22, 1966	EDR
1978	Aerial Photograph. Scale: 1"=750'	Panel #: 43076-A3, Camillus, NY;/Flight Date: September 13, 1978	EDR
1986	Aerial Photograph. Scale: 1"=1000'	Panel #: 43076-A3, Camillus, NY;/Flight Date: April 14, 1986	EDR
1988	Aerial Photograph. Scale: 1"=750'	Panel #: 43076-A3, Camillus, NY;/Flight Date: October 31, 1988	EDR
1995	Aerial Photograph. Scale: 1"=750'	Panel #: 43076-A3, Camillus, NY;/Flight Date: March 27, 1995	EDR
2006	Aerial Photograph. Scale: 1"=604'	Panel #: 43076-A3, Camillus, NY;/Flight Date: January 01, 2006	EDR


INQUIRY #: 2963764.5
YEAR: 1959
= 500'
N


INQUIRY #: 2963764.5
YEAR: 1966
= 500'
N


INQUIRY #: 2963764.5
YEAR: 1978
= 750'
N


INQUIRY #: 2963764.5
YEAR: 1986
= 1000'
N


INQUIRY #: 2963764.5
YEAR: 1988
= 750'
N


INQUIRY #: 2963764.5
YEAR: 1995
= 750'
N


INQUIRY #: 2963764.5
YEAR: 2006
= 604'
N

Wastebeds 9 Through 15
Gerelock Rd
Syracuse, NY 13209

Inquiry Number: 2963764.8
January 13, 2011

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Aerial Photography January 13, 2011

Target Property:

Gerelock Rd

Syracuse, NY 13209

Year	*Scale*	*Details*	*Source*
1959	Aerial Photograph. Scale: 1"=500'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: May 31, 1959	EDR
1959	Aerial Photograph. Scale: 1"=500'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: June 15, 1959	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: June 22, 1966	EDR
1978	Aerial Photograph. Scale: 1"=750'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: September 13, 1978	EDR
1986	Aerial Photograph. Scale: 1"=1000'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: April 14, 1986	EDR
1988	Aerial Photograph. Scale: 1"=750'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: October 31, 1988	EDR
1995	Aerial Photograph. Scale: 1"=750'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: March 27, 1995	EDR
2006	Aerial Photograph. Scale: 1"=604'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: January 01, 2006	EDR


INQUIRY #: 2963764.8
YEAR: 1959
= 500'
N


INQUIRY #: 2963764.8
YEAR: 1959
= 500'
N


INQUIRY #: 2963764.8
YEAR: 1966
= 500'
N


INQUIRY #: 2963764.8
YEAR: 1978
= 750'
N


INQUIRY #: 2963764.8
YEAR: 1986
= 1000'
N


INQUIRY #: 2963764.8
YEAR: 1988
= 750'
N


INQUIRY #: 2963764.8
YEAR: 1995
= 750'
N


INQUIRY #: 2963764.8
YEAR: 2006
= 604'
N

Wastebeds 9 Through 15
Gerelock Rd
Syracuse, NY 13209

Inquiry Number: 2963764.9
January 13, 2011

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Date EDR Searched Historical Sources:

Aerial Photography January 13, 2011

Target Property:

Gerelock Rd

Syracuse, NY 13209

Year	*Scale*	*Details*	*Source*
1959	Aerial Photograph. Scale: 1"=500'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: June 15, 1959	EDR
1966	Aerial Photograph. Scale: 1"=500'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: June 22, 1966	EDR
1978	Aerial Photograph. Scale: 1"=750'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: September 13, 1978	EDR
1986	Aerial Photograph. Scale: 1"=1000'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: April 14, 1986	EDR
1988	Aerial Photograph. Scale: 1"=750'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: October 31, 1988	EDR
1994	Aerial Photograph. Scale: 1"=750'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: April 22, 1994	EDR
2006	Aerial Photograph. Scale: 1"=604'	Panel #: 43076-A2, Syracuse West, NY;/Flight Date: January 01, 2006	EDR


INQUIRY #: 2963764.9
YEAR: 1959
= 500'
N


INQUIRY #: 2963764.9
YEAR: 1966
= 500'
N


INQUIRY #: 2963764.9
YEAR: 1978
= 750'
N


INQUIRY #: 2963764.9
YEAR: 1986
= 1000'
N


INQUIRY #: 2963764.9
YEAR: 1988
= 750'
N


INQUIRY #: 2963764.9
YEAR: 1994
= 750'
N


INQUIRY #: 2963764.9
YEAR: 2006
= 604'
N

Wastebeds 9 Through 15
522 Gerelock Rd
Solvay, NY 13209

Inquiry Number: 2963764.6
January 13, 2011

The EDR-City Directory Abstract

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440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
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TABLE OF CONTENTS

SECTION

Executive Summary

Findings

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2010	Polk's City Directory	-	X	X	-
2006	Polk's City Directory	-	X	X	-
2001	Polk's City Directory	-	X	X	-
1996	Polk's City Directory	-	X	X	-
1992	Polk's City Directory	-	X	X	-
1988	Polk's City Directory	-	X	X	-
1982	Polk's City Directory	-	X	X	-
1976	Polk's City Directory	-	X	X	-
1972	Polk's City Directory	-	X	X	-
1968	Polk's City Directory	-	X	X	-
1963	Polk's City Directory	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
3758 Armstrong Road	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

522 Gerelock Rd
Solvay, NY 13209

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Gerelock Rd

Gerelock Rd

Year	Uses	Source
2010	No address listings beyond 392 Gerelock Road	Polk's City Directory
2006	No address listings beyond 392 Gerelock Road	Polk's City Directory
2001	No address listings 392-2080 Gerelock Road	Polk's City Directory
1996	No address listings beyond 342 Gerelock Road	Polk's City Directory
1992	No address listings 354-2080 Gerelock Road	Polk's City Directory
1988	No address listings 354-2080 Gerelock Road	Polk's City Directory
1982	No address listings 354-2080 Gerelock Road	Polk's City Directory
1976	No address listings 354-2080 Gerelock Road	Polk's City Directory
1972	No address listings 354-2080 Gerelock Road	Polk's City Directory
1968	No address listings 352-2080 Gerelock Road	Polk's City Directory
1963	No address listings beyond 352 Gerelock Road	Polk's City Directory

348 Gerelock Rd

Year	Uses	Source
2010	Residential	Polk's City Directory
2006	Residential	Polk's City Directory
2001	Residential	Polk's City Directory
1992	Residential	Polk's City Directory
1988	Vacant	Polk's City Directory
1963	Residential	Polk's City Directory

350 Gerelock Rd

Year	Uses	Source
1992	Residential	Polk's City Directory
1988	Ted's Plumbing Heating & Electric	Polk's City Directory

FINDINGS

Year	Uses	Source
1982	Ted Duke (heating & electric)	Polk's City Directory
1976	Vacant	Polk's City Directory
1972	Vacant	Polk's City Directory
1968	Residential	Polk's City Directory
1963	Residential	Polk's City Directory

352 Gerelock Rd

Year	Uses	Source
1972	Vacant	Polk's City Directory
1968	Vacant	Polk's City Directory
1963	Residential	Polk's City Directory

354 Gerelock Rd

Year	Uses	Source
2010	Residential	Polk's City Directory
2006	Residential	Polk's City Directory
2001	Residential	Polk's City Directory
1992	Residential	Polk's City Directory
1988	Residential	Polk's City Directory
1982	Residential	Polk's City Directory
1976	Residential	Polk's City Directory
1972	Residential	Polk's City Directory

392 Gerelock Rd

Year	Uses	Source
2010	Residential	Polk's City Directory
2006	No Return	Polk's City Directory
2001	Residential	Polk's City Directory

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
522 Gerelock Rd	2010, 2006, 2001, 1996, 1992, 1988, 1982, 1976, 1972, 1968, 1963

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
Gerelock Rd	No Years Found
348 Gerelock Rd	1996, 1982, 1976, 1972, 1968
350 Gerelock Rd	No Years Found
352 Gerelock Rd	No Years Found
354 Gerelock Rd	1996, 1968, 1963
3758 Armstrong Road	2010, 2006, 2001, 1996, 1992, 1988, 1982, 1976, 1972, 1968, 1963
392 Gerelock Rd	1996, 1992, 1988, 1982, 1976, 1972, 1968, 1963

Attachment 4-2

Map of EDR Search Radius

OVERVIEW MAP - 02963764.2r



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Wastebeds 9 Through 15	CLIENT: O Brien & Gere Engineers, Inc.
ADDRESS: Gerelock Rd Syracuse NY 13209	CONTACT: Michael Miller
LAT/LONG: 43.0710 / 76.2496	INQUIRY #: 02963764.2r DATE: January 10, 2011 4:51 pm

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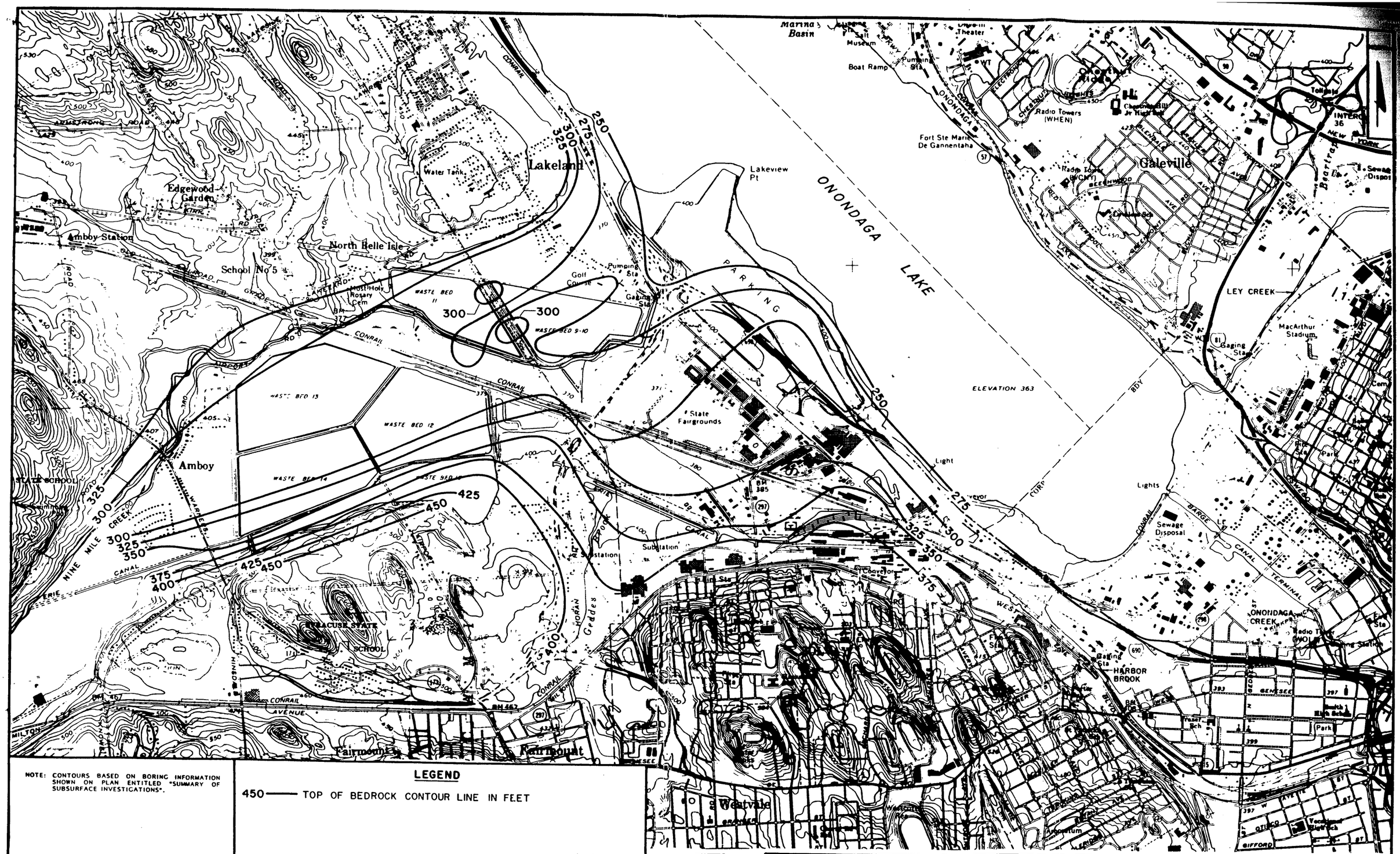
Attachment 5

BB&L 1989 Top of Bedrock Figure



NOTE: CONTOURS BASED ON BORING INFORMATION SHOWN ON PLAN ENTITLED "SUMMARY OF SUBSURFACE INVESTIGATIONS".

LEGEND

450 —— TOP OF BEDROCK CONTOUR LINE IN FEET

SCALE 1,000' 0 1,000'

DATE:

BASLAND & BOUCK ENGINEERS, P.C.
Syracuse, New York
White Plains, New York

ALLIED-SIGNAL INCORPORATED
HYDROGEOLOGIC ASSESSMENT
OF THE ALLIED WASTE BEDS
SYRACUSE, NEW YORK

TOP OF BEDROCK CONTOURS

FIGURE 12