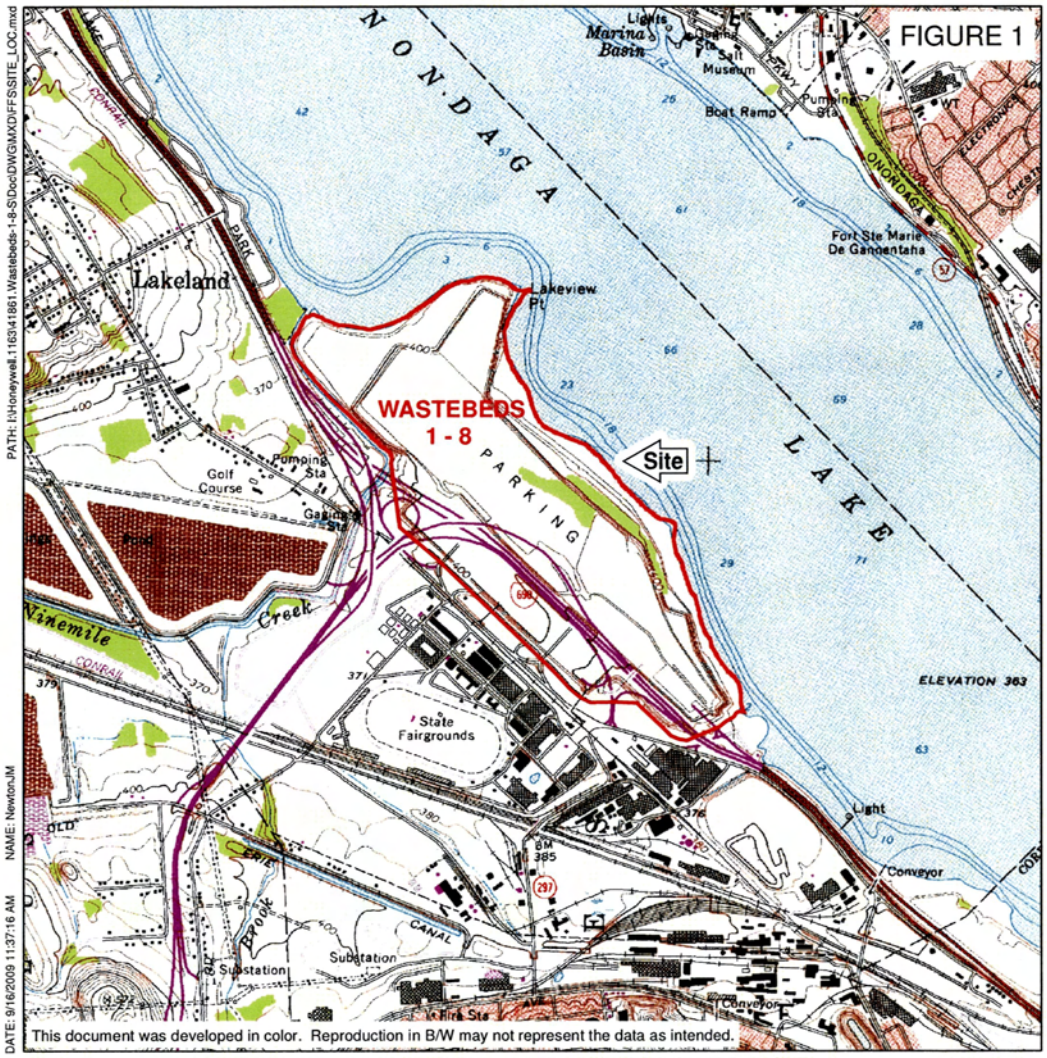
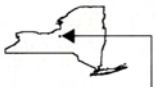
Appendix I. Selected Figures from Focused Feasibility Study on Wastebeds 1–8 by O'Brien and Gere for Honeywell



ADAPTED FROM: SYRACUSE WEST, NY USGS QUADRANGLE



QUADRANGLE LOCATION

HONEYWELL
WASTEBEDS 1 - 8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

SITE LOCATION

N

0 1,000 2,000 4,000 6,000 8,000
Feet

NOVEMBER 2009
1163.41861

1:24,000

O'BRIEN & GERE

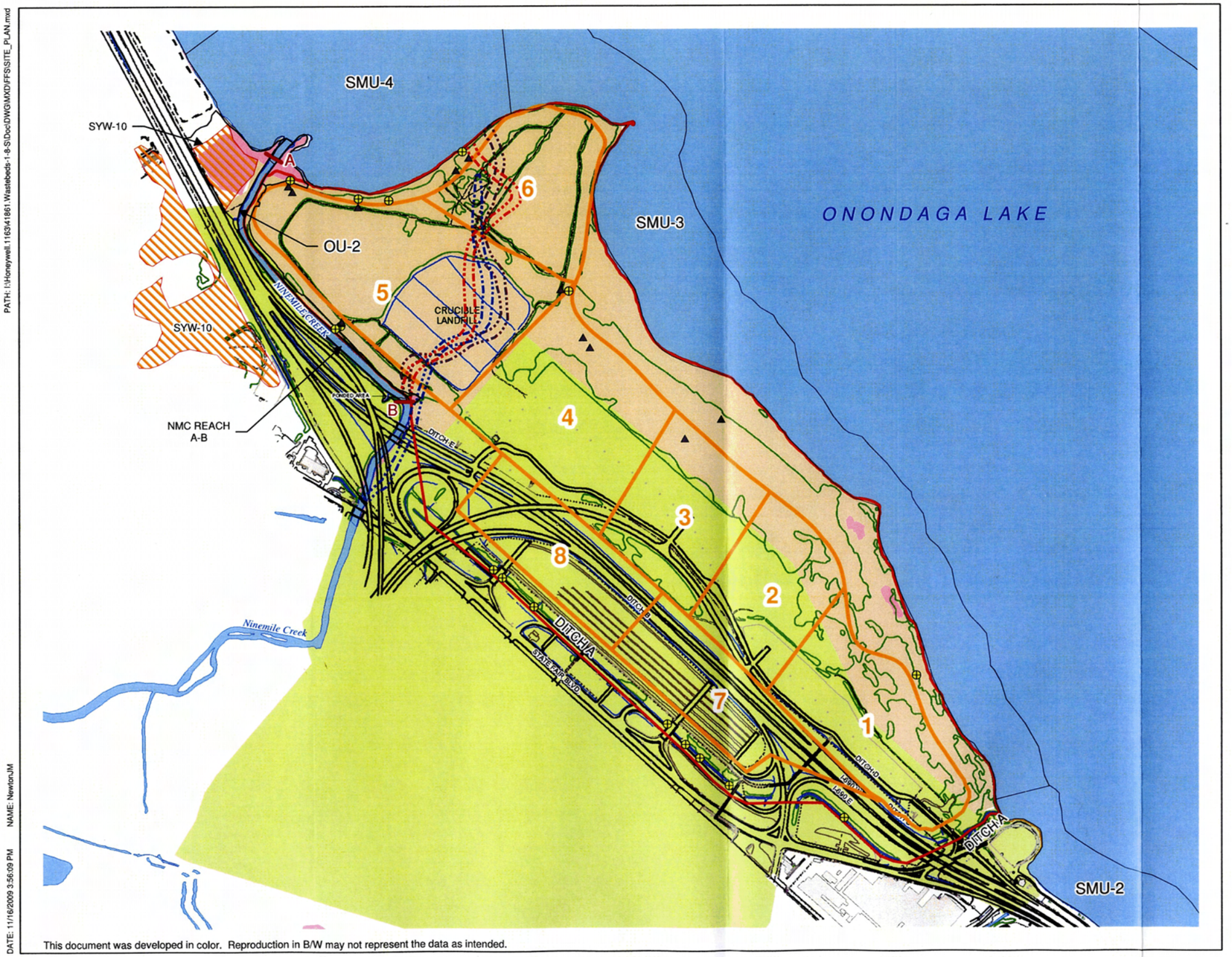


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FIGURE 2

N

LEGEND

- WEIR BOX
- PIPE
- DELINEATED WETLANDS
- NYS FRESHWATER WETLAND
- APPROXIMATE WASTEBED BOUNDARY
- WASTEBEDS 1-8 SITE

PROPERTY BOUNDARY

- STATE OF NEW YORK
- COUNTY OF ONONDAGA

FORMER NINEMILE CREEK CHANNEL

- USGS TOPO MAP 1898
- THOMSEN ASSOCIATES 1982
- ALLIED DRAWING 1937

HONEYWELL
WASTEBEDS 1 - 8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

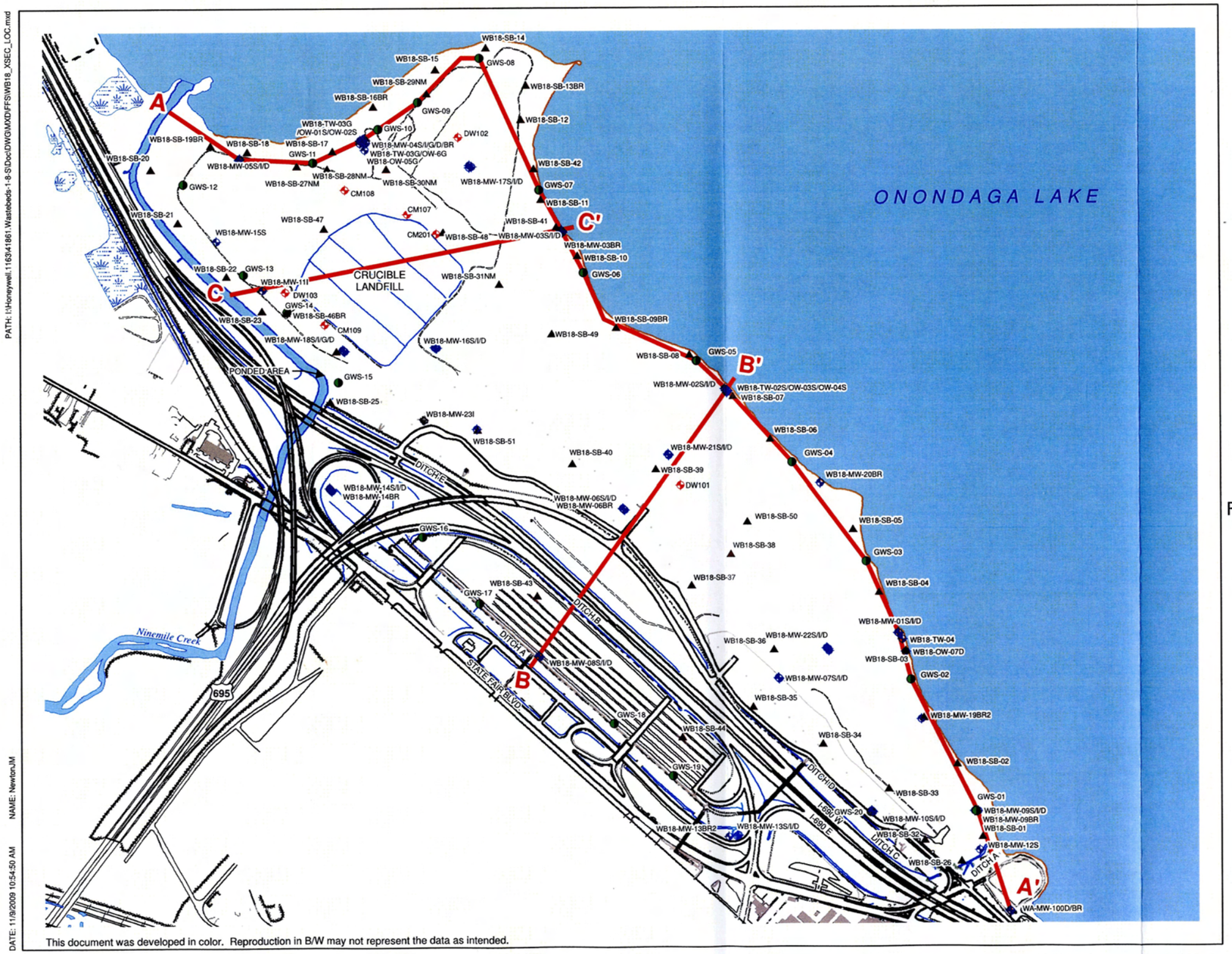
SITE PLAN

0 400 800 1,600
Feet

NOVEMBER 2009
1163.41861

O'BRIEN & GERE

FIGURE 3



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N

LEGEND

- CROSS SECTION LOCATION
- MONITORING WELL
- SOIL BORING
- GROUNDWATER SCREENING
- CRUCIBLE WELL

HONEYWELL
WASTEBEDS 1 - 8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

CROSS SECTION LOCATIONS

0 350 700 1,400
Feet

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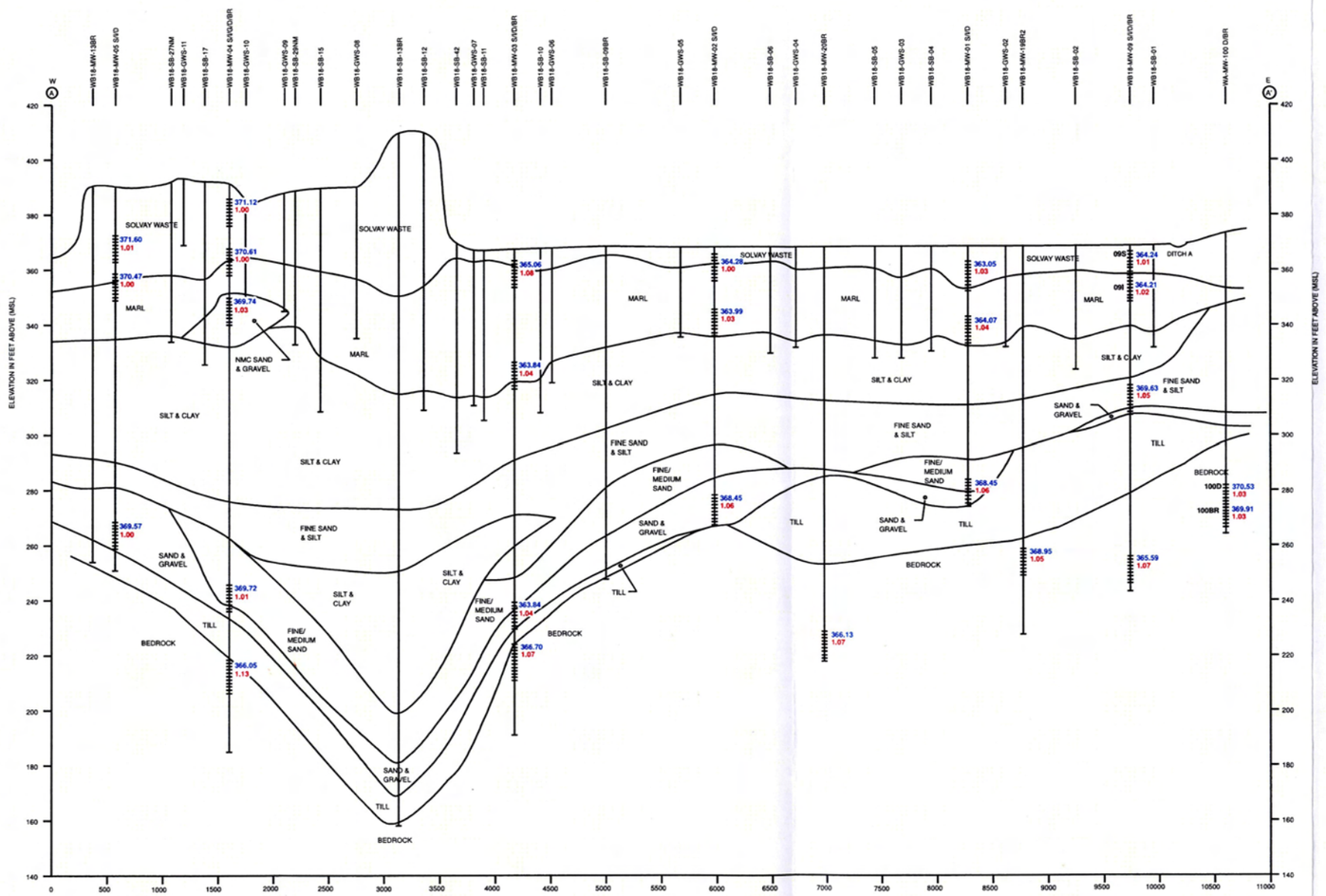

FIGURE 4

LEGEND

MW	MONITORING WELL
SB	SOIL BORING
GWS	GROUNDWATER SCREENING
NM	NINEMILE CREEK
S/I/D/BR	SHALLOW/INTERMEDIATE/DEEP/ BEDROCK
	SCREENED INTERVAL
364.21	GROUNDWATER ELEVATION (FEET ABOVE MSL) (6/25/08)
1.02	DENSITY BY HYDROMETER (6/25/08)

NOTE: WELL CLUSTERS SHOWN AS ONE LOCATION WITH MULTIPLE SCREENS.

HONEYWELL
WASTEBEDS 1- 8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

GEOLOGIC CROSS SECTION A-A'

HORIZONTAL SCALE

0 500 1,000 2,000
Feet

VERTICAL EXAGGERATION = 10x

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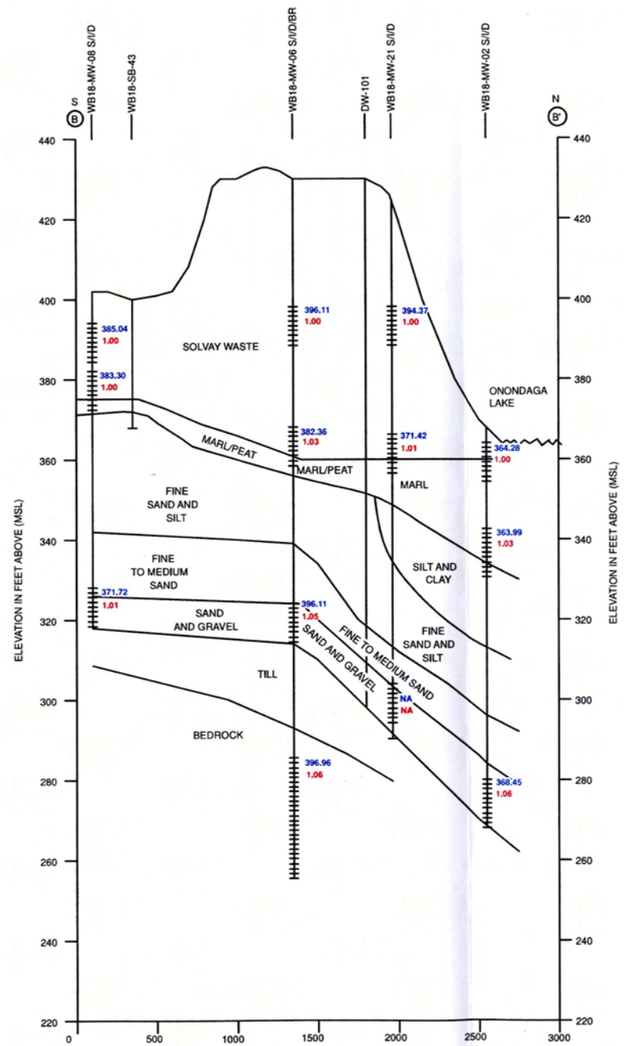

FIGURE 5

LEGEND

MW	MONITORING WELL
SB	SOIL BORING
GWS	GROUNDWATER SCREENING
NM	NINEMILE CREEK
S/I/D/BR	SHALLOW/INTERMEDIATE/DEEP/ BEDROCK
	SCREENED INTERVAL
364.21	GROUNDWATER ELEVATION (FEET ABOVE MSL) (6/25/08)
1.02	DENSITY BY HYDROMETER (6/25/08)

NOTE: WELL CLUSTERS SHOWN AS ONE LOCATION WITH MULTIPLE SCREENS.

HONEYWELL
WASTEBEDS 1 - 8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

GEOLOGIC CROSS SECTION B-B'

HORIZONTAL SCALE

0 500 1,000 2,000
Feet

VERTICAL EXAGGERATION = 10x

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O'BRIEN & GERE

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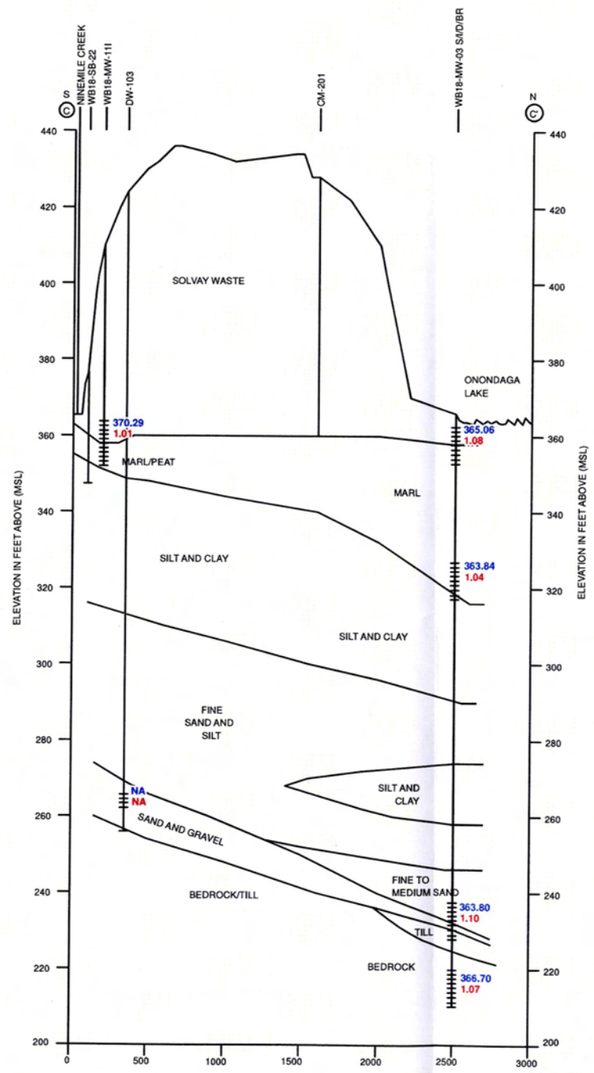

FIGURE 6

LEGEND

MW	MONITORING WELL
SB	SOIL BORING
GWS	GROUNDWATER SCREENING
NM	NINEMILE CREEK
S/I/D/BR	SHALLOW/INTERMEDIATE/DEEP/ BEDROCK
|||||||||	SCREENED INTERVAL
364.21	GROUNDWATER ELEVATION (FEET ABOVE MSL) (6/25/08)
1.02	DENSITY BY HYDROMETER (6/25/08)

NOTE: WELL CLUSTERS SHOWN AS ONE LOCATION WITH MULTIPLE SCREENS.

HONEYWELL
WASTEBEDS 1 - 8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

GEOLOGIC CROSS SECTION C-C'

HORIZONTAL SCALE

0 400 800 1,600
Feet

VERTICAL EXAGGERATION = 10x

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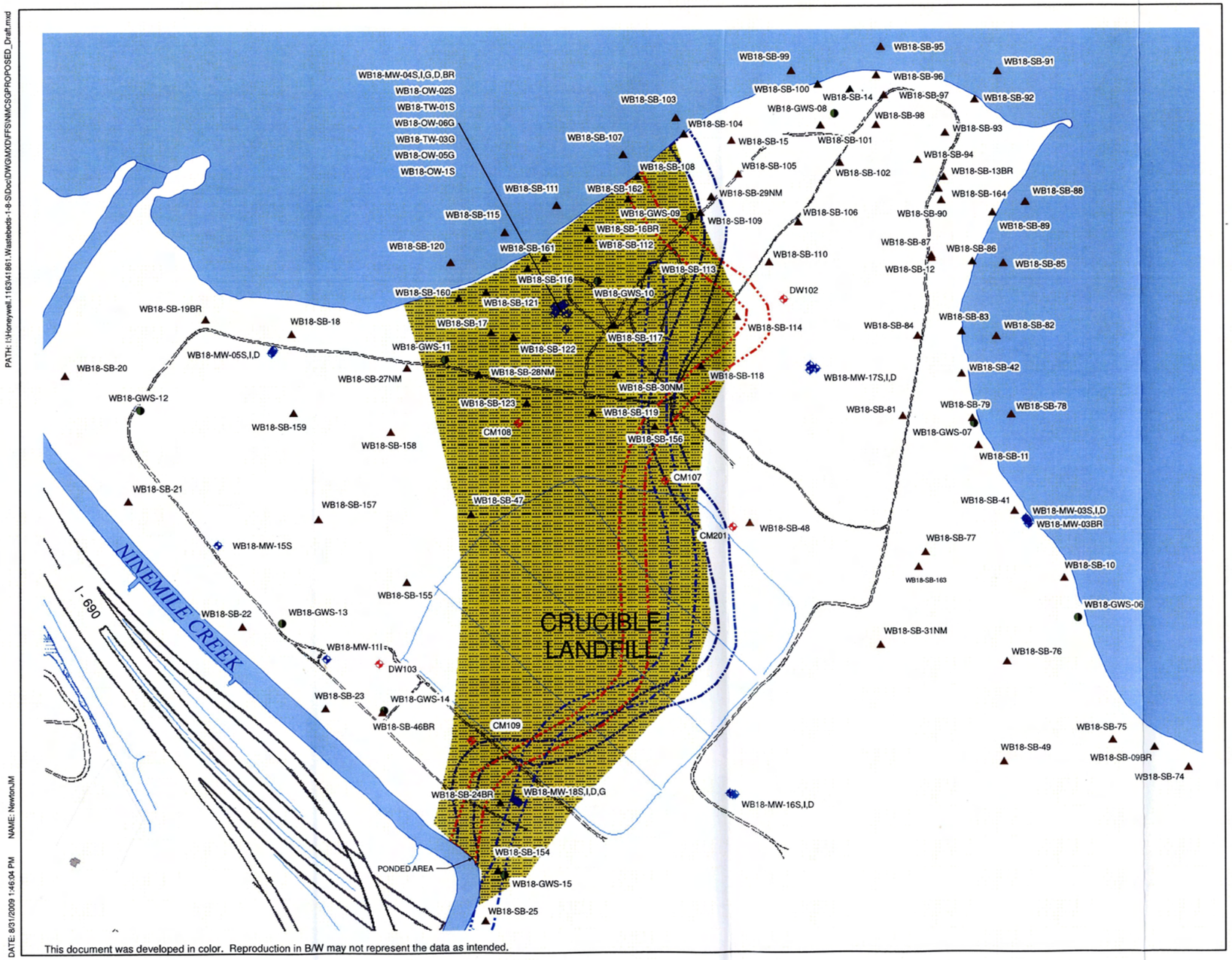
FIGURE 7



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N

LEGEND

SAMPLE LOCATIONS

- MONITORING WELL
- GROUNDWATER SCREENING
- SOIL BORING
- CRUCIBLE WELL

FORMER NINEMILE CREEK CHANNEL

- USGS TOPO MAP 1898
- ALLIED DRAWING 1937
- THOMSEN ASSOCIATES 1982
- APPROXIMATE EXTENT OF NINEMILE CREEK RELATED SAND AND GRAVEL DEPOSITS

HONEYWELL
WASTEBEDS 1 - 8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

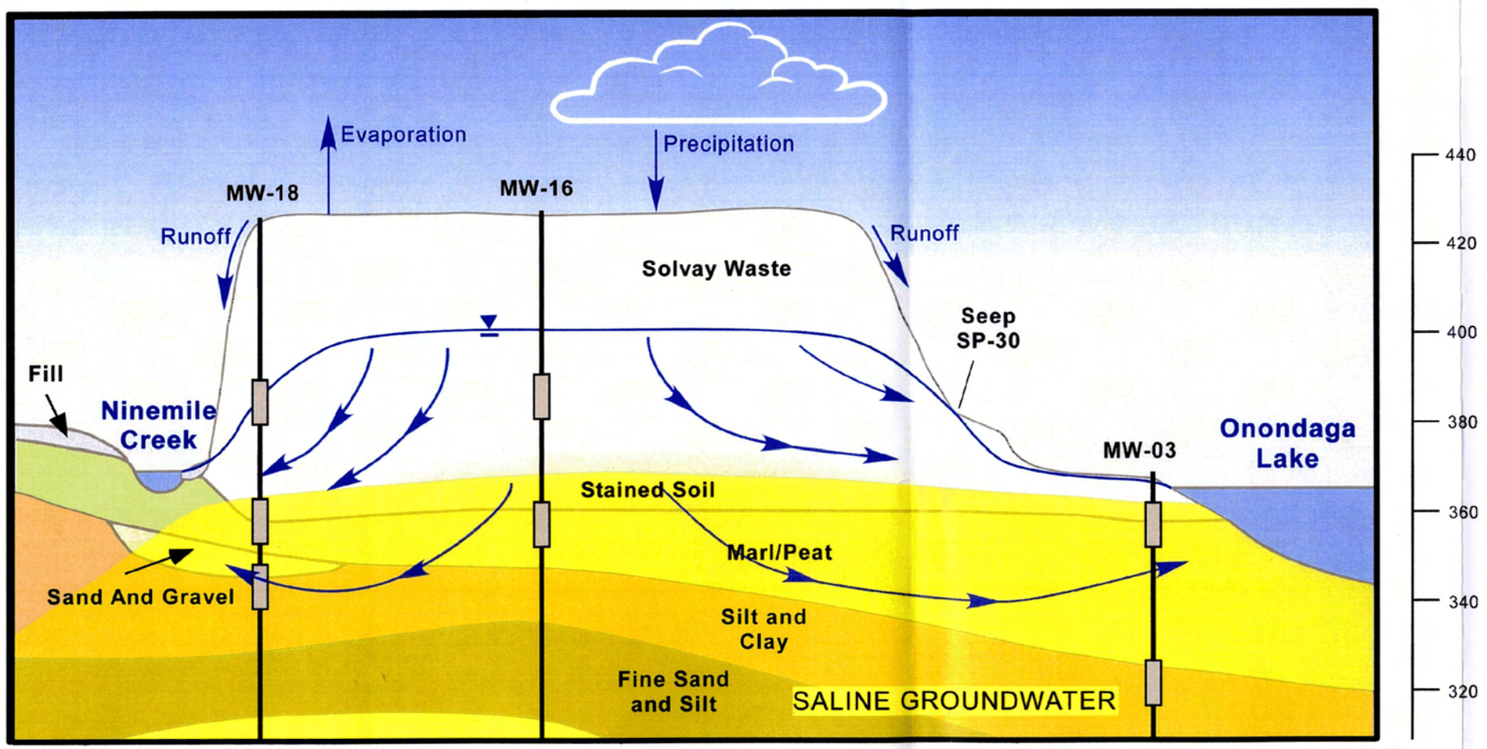
APPROXIMATE EXTENT OF NINEMILE CREEK SAND AND GRAVEL DEPOSITS

0 150 300 600
Feet

NOVEMBER 2009
1163.41861

O'BRIEN & GERE

FIGURE 8



LEGEND

- SCREEN INTERVAL
- WELL CASING
- SALINE GROUNDWATER
- GROUNDWATER FLOW DIRECTION

HONEYWELL
WASTEBEDS 1-8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

CONCEPTUAL GROUNDWATER FLOW

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FIGURE 12

N

LEGEND

- SEEP
- PIPE
- WEIR BOX
- SHALLOW SLOPED SHORELINE
- SHALLOW SLOPED SHORELINE (LAKE REMEDY)
- DITCH A EXCAVATION/CAPPING AREA
- STORM SEWER REPAIR AREA
- STEEP EMBANKMENT
- SOLVAY WASTE
- GROUNDWATER DISCHARGE

HONEYWELL
WASTEBEDS 1-8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

IMPACTED MEDIA TO BE ADDRESSED

0 375 750 1,500
Feet

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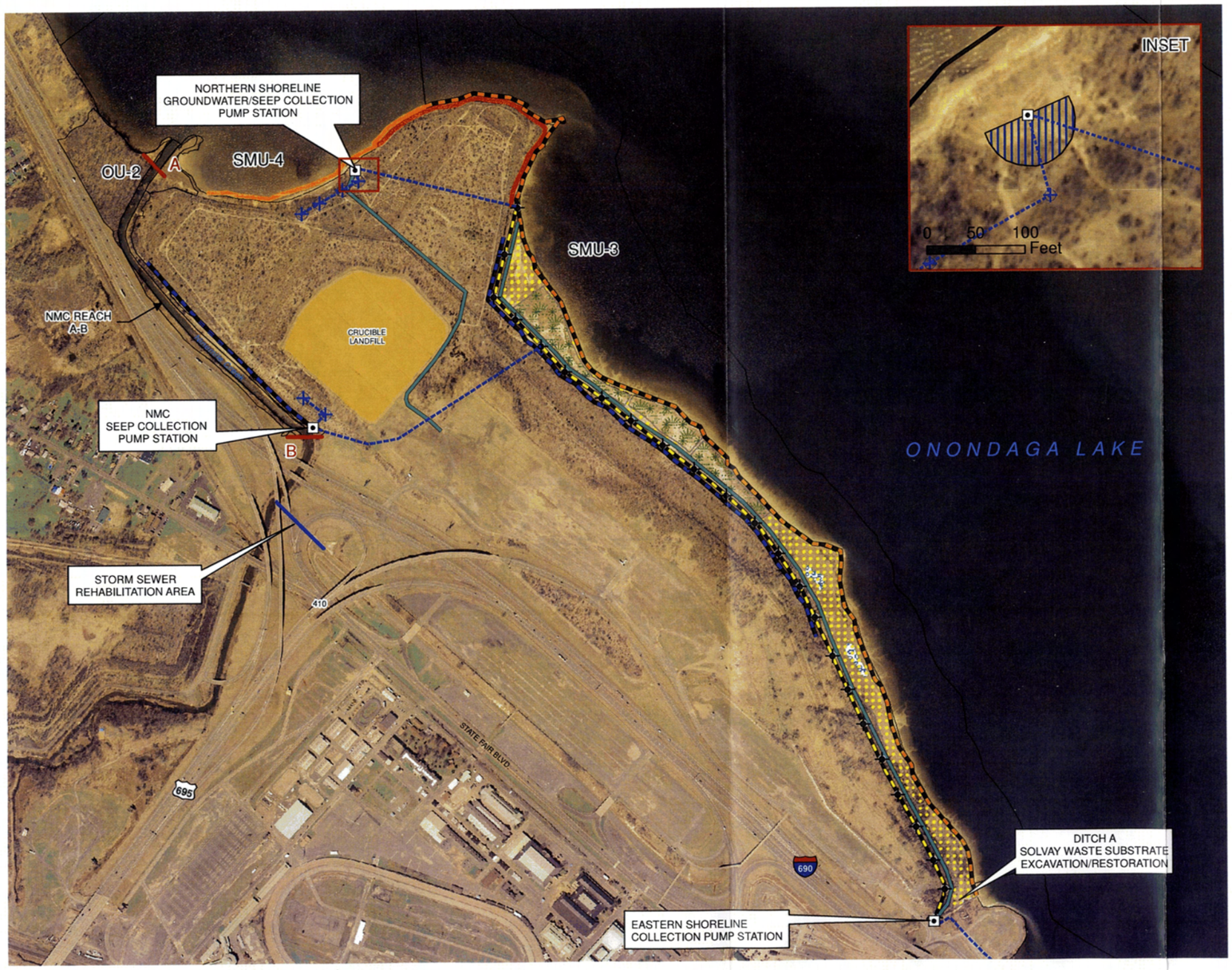
O'BRIEN & GERE

FIGURE 13



N

LEGEND

- MANHOLE
- NMCSG RECOVERY WELL
- PUMP STATION
- CONVEYANCE PIPE
- ACCESS ROAD
- CRIB WALL
- GRADED GRAVEL AND LIVE FASCINES
- GRADED GRAVEL AND LIVE FASCINES (LAKE REMEDY)
- SEEP COLLECTION APRON
- GROUNDWATER COLLECTION TRENCH
- DELINEATED WETLANDS
- MITIGATION WETLAND (LAKE HABITAT RESTORATION)
- COVER AREA

HONEYWELL
WASTEBEDS 1-8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

IRM ALTERNATIVE 2

0 375 750 1,500
Feet

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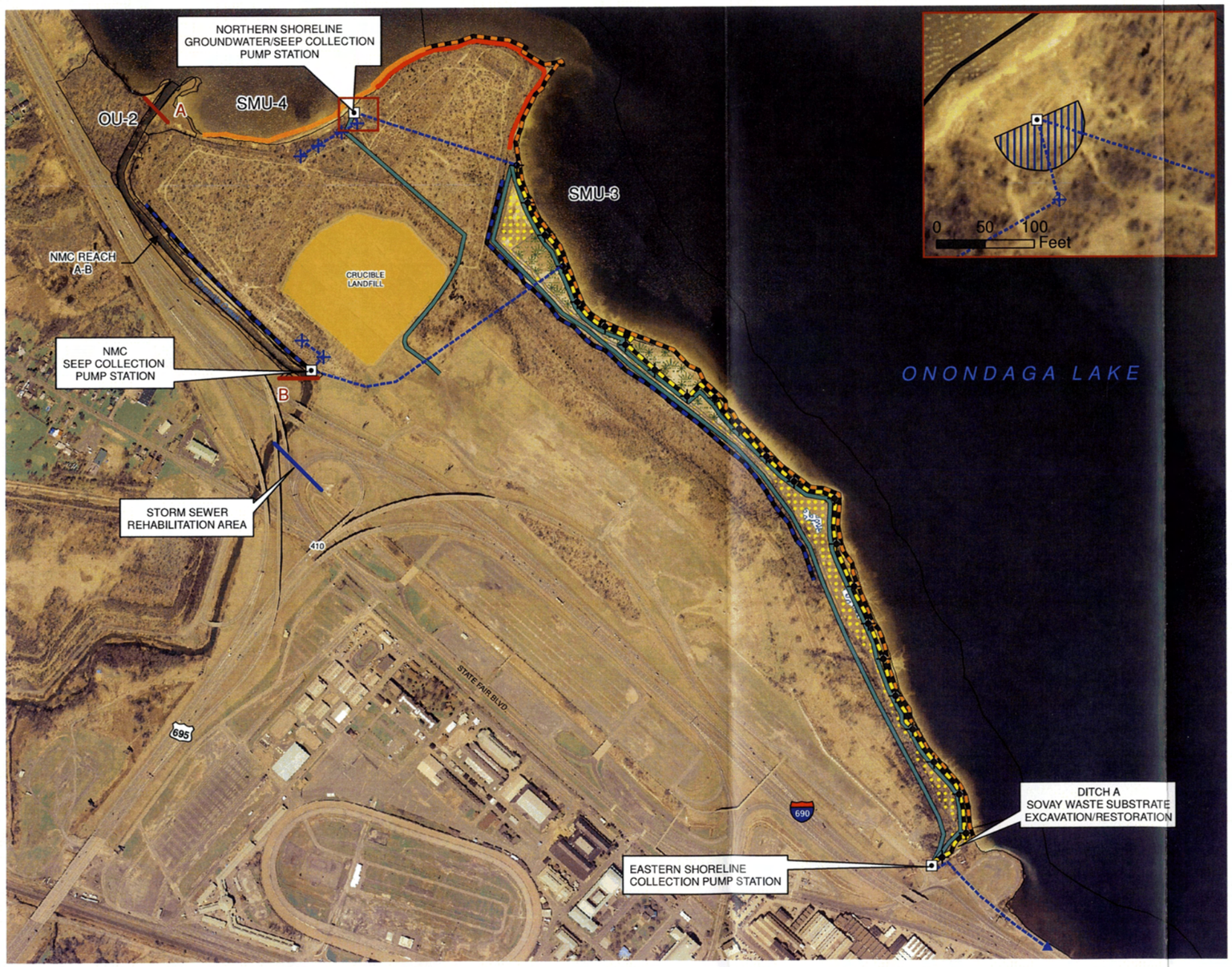
FIGURE 14



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NAME: Newton,JM

DATE: 9/15/2009 9:31:49 AM

N

LEGEND

- MANHOLE
- NMCSG RECOVERY WELL
- PUMP STATION
- CONVEYANCE PIPE
- ACCESS ROAD
- CRIB WALL
- GRADED GRAVEL AND LIVE FASCINES
- GRADED GRAVEL AND LIVE FASCINES (LAKE REMEDY)
- SEEP COLLECTION TRENCH AND APRON
- GROUNDWATER COLLECTION TRENCH
- DELINEATED WETLANDS
- MITIGATION WETLANDS (LAKE HABITAT RESTORATION)
- COVER AREA

HONEYWELL
WASTEBEDS 1-8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

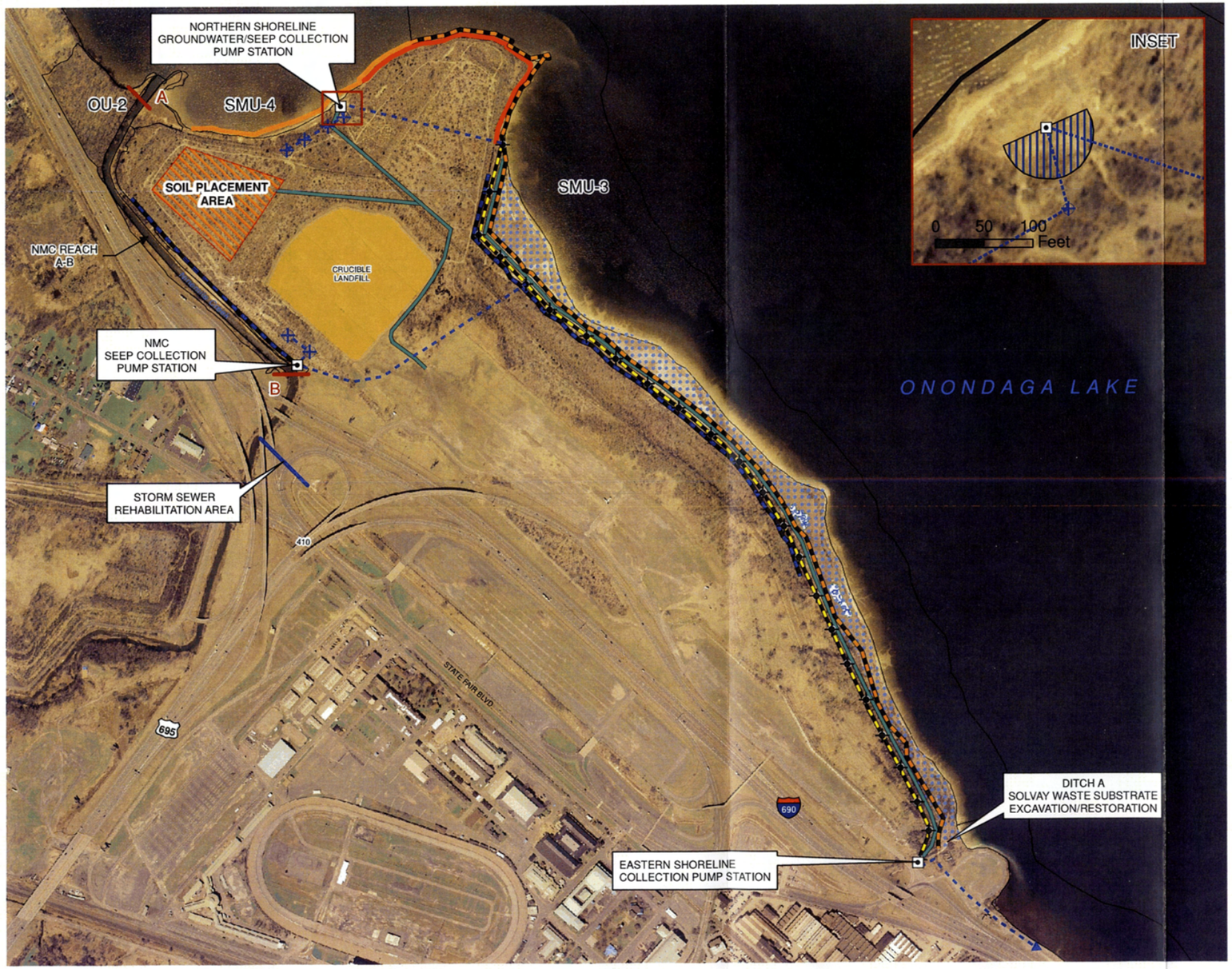
IRM ALTERNATIVE 3

0 375 750 1,500
Feet

NOVEMBER 2009
1163.41861

O'BRIEN & GERE

FIGURE 15



N

LEGEND

- MANHOLE
- NMCSG RECOVERY WELL
- PUMP STATION
- CONVEYANCE PIPE
- ACCESS ROAD
- CRIB WALL
- GRADED GRAVEL AND LIVE FASCINES
- GRADED GRAVEL AND LIVE FASCINES (LAKE REMEDY)
- SEEP COLLECTION APRON
- GROUNDWATER COLLECTION TRENCH
- DELINEATED WETLANDS
- EXCAVATION AREA

HONEYWELL
WASTEBEDS 1-8
FOCUSED FEASIBILITY STUDY
GEDDES, NEW YORK

IRM ALTERNATIVE 4

0 375 750 1,500
Feet

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