

## BORING LOG

Page 1 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-01

Date: 11/07/2006 - 11/08/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506

Easting: 907892.659

Elevation: 430.89

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz, J. Gallo

Rig Type: ATV 850

Total Depth: 64.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			WH-WH-2-1	2	SOLW	Top 2 inches: dark yellowish brown (10YR 4/2) silt (organic). Bottom 22 inches: moist, soft, yellowish gray (5Y 8/1), light gray (N7) to dark gray (N3) silt-sized particles in a paste-like matrix, layers at cm-mm scale.	2SS-140H
5			WH-WH-WH-2	0	GP	Top 11 inches: dark yellowish brown (10YR 4/2) coarse to medium gravel, some coarse to medium sand, little silt, moist, loose (GP). Bottom 3 inches: moist, soft, yellowish gray (5Y 8/1), light gray (N7) to dark gray (N3) silt-sized particles in a paste-like matrix, layers at cm-mm scale (SOLW). At 6.75 feet observed contact between gravel and SOLW.	2SS-140H
						Shelby tube recovery: less than 6 inches. Shelby tube was not sent for analysis.	Shelby
10		OL-0295-01				Shelby tube recovery: 20 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0295-02				Shelby tube recovery: 20 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
15			1-1-1-0	2	SOLW	Wet, soft, white and light gray inter-layered, silt-sized particles, occasional dark gray, stiff, sand-sized particles.	2SS-140H
20							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-01

Date: 11/07/2006 - 11/08/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506

Easting: 907892.659

Elevation: 430.89

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz, J. Gallo      Rig Type: ATV 850

Total Depth: 64.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			WH-WH-WH-4	0	SOLW	Moist, hard, light gray, sand-sized particles.	2SS-140H
25		OL-0295-03				Shelby tube recovery: 22 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0295-04				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30			6-3-2-3	5	SOLW	Wet, stiff, white and dark gray, thinly laminated, silt-sized particles, few light gray laminae of sand-sized particles.	2SS-140H
35			1-2-1-2	3	SOLW	Poor Recovery. Moist, stiff, gray, sand-sized particles. First Shelby tube collected from 34 to 36 ft at nearby location-recovery: 22 inches. Second Shelby tube collected from 36 to 38 ft at nearby location-recovery: 12 inches. See Geotechnical Report for Shelby Tube Analysis.	2SS-140H
40							

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-01

Date: 11/07/2006 - 11/08/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506

Easting: 907892.659

Elevation: 430.89

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz, J. Gallo      Rig Type: ATV 850

Total Depth: 64.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			WH-3-3-6	6	SOLW	Top 10 inches: moist, soft, white, some dark gray at bottom, silt-sized particles (SOLW). Bottom 8 inches: moist, dense, moderate brown silt and fine sand, few black coal pieces, pieces of plastic (SM). At 41.3 feet observed contact between SOLW and silt.	2SS-140H
			1-3-6-11	9	SM	Wet, dense, moderate brown, fine sand, some medium sand and silt, black coal pieces, bolts, washers.	2SS-140H
45			26-50/.4--	50/.4	SP	Moist, dense, green olive, medium sand some gravel and silt. Faint greenish mottling.	2SS-140H
50			34-24-17-6	41	SP	Poor recovery. Wet, dense, moderate brown, medium to coarse sand, some gravel.	2SS-140H
55		OL-0301-07	1-1-1-1	2	ML	Moist, soft, dark yellowish brown, silt, some fine sand, little clay, rounded pieces of white and dark gray SOLW, silt-sized particles, trace shells, fishy odor, marl-like sediment.	2SS-140H
60							

## BORING LOG

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**Honeywell**

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Boring No: SB915-PZ13-01

Date: 11/07/2006 - 11/08/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506

Easting: 907892.659

Elevation: 430.89

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz, J. Gallo      Rig Type: ATV 850

Total Depth: 64.0 Ft

Depth Units: Ft

Depth Ft	Reco v	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			27-29-9-16	38	GP	Moist, dense, dark gray, angular coarse gravel, some coarse sand, little silt. Layer of moderate red, fine sand and silt at bottom of spoon.	2SS-140H
			25-24-10-15	34	GP	Wet, dense, olive gray, medium to coarse sand, some gravel and fine sand, little silt, faint green mottling.	2SS-140H
64.0							



## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-01D

Install Date: 11/10/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506  
Easting: 907892.659  
Ground Elevation: 430.89

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 40 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-01D

Install Date: 11/10/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506  
Easting: 907892.659  
Ground Elevation: 430.89

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 40 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
35								
40.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19784) installed to 39.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-01 for Lithology.

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-01N

Install Date: 11/09/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506  
Easting: 907892.659  
Ground Elevation: 430.89

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: Y. Veliz, J. Gallo      Rig Type: ATV

Total Depth: 64 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-01N

Install Date: 11/09/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506  
Easting: 907892.659  
Ground Elevation: 430.89

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: Y. Veliz, J. Gallo      Rig Type: ATV

Total Depth: 64 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
35								
40								

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-01N

Install Date: 11/09/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506  
Easting: 907892.659  
Ground Elevation: 430.89

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: Y. Veliz, J. Gallo      Rig Type: ATV

Total Depth: 64 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
40								
45								
50								
55								
60								

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-01N

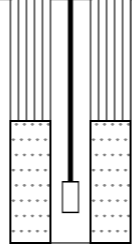
Install Date: 11/09/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506  
 Easting: 907892.659  
 Ground Elevation: 430.89

Drilling Company: Parratt Wolff  
 Driller: R. Navatka  
 Logging Company: O'Brien and Gere  
 Geologist: Y. Veliz, J. Gallo      Rig Type: ATV

Total Depth: 64 Ft  
 Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
60								
64.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19773) installed to 63.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-01 for Lithology.

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-01S

Install Date: 11/10/2006

Weather: Cloudy 50 deg F

Northing: 1120909.506  
Easting: 907892.659  
Ground Elevation: 430.89

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 20 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-20309) installed to 19.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-01 for Lithology.

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-02

Date: 11/06/2006 - 11/07/2006

Weather: Sunny 60 deg F

Northing: 1121349.349

Easting: 907040.73

Elevation: 430.34

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 50.5 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			WH-WH-WH-1	0	SOLW	Moist, soft, light gray (N7) to medium gray (N5), silt-sized particles in paste-like matrix, layered. Top 1 inch dark yellowish brown (10YR 5/4) soil, roots throughout.	2SS-140H
			2-3-4-1	7	SOLW	Moist, soft to medium dense, yellowish gray (5Y 8/1), very light gray (N8), and light gray (N7) silt-and sand-sized particles in a paste-like matrix alternated with cemented layers.	2SS-140H
5							
		OL-0295-05				Shelby tube recovery: 21 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10							
		OL-0295-06				Shelby tube recovery: 14 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			4-4-4-2	8	SOLW	Moist, medium dense, medium light gray (N6), coarse to medium sand, little silt-sized particles in cemented layers.	2SS-140H
15							
			WH-WH-4-4	4	SOLW	Bottom 5 inches: moist, soft to medium dense, very light gray (N8) fine sand-and silt-sized particles in paste-like to semi-cemented matrix. Top 15 inches: moist-wet, very soft, white (N9), silt-sized particles in a paste-like matrix.	2SS-140H
20							



## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-02

Date: 11/06/2006 - 11/07/2006

Weather: Sunny 60 deg F

Northing: 1121349.349

Easting: 907040.73

Elevation: 430.34

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 50.5 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20							
			3-4-7-10	11	SOLW	Moist to wet, soft, white (N9), silt-sized particles in paste-like matrix, few cm scale very light gray (N8) harder cemented layers.	2SS-140H
25		OL-0295-07				Shelby tube recovery: 22 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0295-08				Shelby tube recovery: 21 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30							
			2-2-3-14	5	SOLW	Top 1 foot: moist, soft, white (N9) and yellowish gray (5Y 8/1), silt-sized particles in paste-like matrix. Bottom 1 foot: moist, soft to medium dense, white, yellowish gray, and medium gray (N5), alternating layers cm scale some harder, cemented, silt-sized particles in paste-like matrix.	2SS-140H
35		OL-0295-09				Shelby tube recovery: 22 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			10-34-50/0.3	84/8	SOLW	Top 3 inches: moist, soft, white (N9) and medium gray (N5) silt-sized particles in paste-like matrix (SOLW). Bottom 5 inches: moist, dense, dark yellowish brown (10 YR 4/2) coarse to medium gravel (GP). At 39 feet observed contact between SOLW and gravel.	2SS-140H
40							

# Honeywell

Site: Settling Basins 9-15  
Boring No: SB915-PZ13-02  
Date: 11/06/2006 - 11/07/2006  
Weather: Sunny 60 deg F

Total Depth: 50.5 Ft  
Depth Units: Ft

[illegible]

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-02D

Install Date: 11/08/2006

Weather: Sunny 60 deg F

Northing: 1121349.349  
Easting: 907040.73  
Ground Elevation: 430.34

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 37.2 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							
25							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-02D

Install Date: 11/08/2006

Weather: Sunny 60 deg F

Northing: 1121349.349  
 Easting: 907040.73  
 Ground Elevation: 430.34

Drilling Company: Parratt Wolff  
 Driller: B. Rice  
 Logging Company: O'Brien and Gere  
 Geologist: J. Gallo  
 Rig Type: ATV

Total Depth: 37.2 Ft  
 Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
25								
30								
35								
37.2								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-20305) installed to 36.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-02 for Lithology.

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-02I

Install Date: 11/08/2006

Weather: Sunny 60 deg F

Northing: 1121349.349  
Easting: 907040.73  
Ground Elevation: 430.34

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 20.4 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							
20.4							

Vibrating wire piezometer (Geokon Model 4500S Serial No.06-20310) installed to 19.9 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-02 for Lithology.

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-02N

Install Date: 11/07/2006

Weather: Sunny 60 deg F

Northing: 1121349.349  
Easting: 907040.73  
Ground Elevation: 430.34

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo                      Rig Type: ATV

Total Depth: 50.5 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-02N

Install Date: 11/07/2006

Weather: Sunny 60 deg F

Northing: 1121349.349  
Easting: 907040.73  
Ground Elevation: 430.34

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 50.5 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
35								
40								

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-02N

Install Date: 11/07/2006

Weather: Sunny 60 deg F

Northing: 1121349.349  
 Easting: 907040.73  
 Ground Elevation: 430.34

Drilling Company: Parratt Wolff  
 Driller: B. Rice  
 Logging Company: O'Brien and Gere  
 Geologist: J. Gallo                      Rig Type: ATV

Total Depth: 50.5 Ft  
 Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
40								
45								
50								
50.5								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19778) installed to 50 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-02 for Lithology.



## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-03

Date: 11/09/2006

Weather: Cloudy 55 deg F

Northing: 1119798.105

Easting: 906596.558

Elevation: 429.17

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 75.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			1-1-0-1	1	SOLW	Poor recovery. Moist, soft, light brown (5YR 6/4), very light gray (N8) and medium dark gray (N4) silt-sized particles in a paste-like matrix, some organics (roots).	2SS-140H
			WH-WH-WH-WH	0	SOLW	Wet, very soft, yellowish gray (5Y 8/1) and various shades of gray (from N8 to N3) silt-sized particles in a paste-like matrix, layered cm scale.	2SS-140H
5							
		OL-0295-10				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10		OL-0295-11				Shelby tube recovery: 16 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			1-1-1-1	2	SOLW	Moist, soft, yellowish gray (5Y 8/1) and various shades of gray silt-sized particles in a paste-like matrix, layers of various thicknesses of centimeters to inches, few denser layers.	2SS-140H
15							
			1-1-0-1	1	SOLW	Moist, soft, yellowish gray (5Y 8/1) and various shades of gray silt-sized particles in a paste-like matrix, layers of various thicknesses cm/in, few denser layers, slight sewage odor.	2SS-140H
20							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-03

Date: 11/09/2006

Weather: Cloudy 55 deg F

Northing: 1119798.105

Easting: 906596.558

Elevation: 429.17

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 75.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20							
			WR-WR-2-1	2	SOLW	Moist, soft, yellowish gray(5Y 8/1) and various shades of gray silt-sized particles in a paste-like matrix, layers of various thicknesses of cm/in, few denser layers, cohesive.	2SS-140H
25							
		OL-0295-12				Shelby tube recover: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30		OL-0295-13				Shelby tube recover: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			WH-2-1-1	3	SOLW	Moist, soft, various shades of gray (N4 to N8), silt-sized particles in a paste-like matrix, cohesive, mm/cm scale layering, some layers more dense.	2SS-140H
35							
			1-2-1-1	3	SOLW	Moist, soft, various shades of gray (N4 to N8), silt-sized particles in a paste-like matrix, cohesive, mm/cm scale layering, some layers more dense.	2SS-140H
40							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-03

Date: 11/09/2006

Weather: Cloudy 55 deg F

Northing: 1119798.105

Easting: 906596.558

Elevation: 429.17

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 75.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40							
			1-0-0-0	0	SOLW	Moist, soft, medium gray (N4) to red dark gray (N5) silt-sized particles in a paste-like matrix, cohesive, almost homogenous, little to no layering.	2SS-140H
45							
			WR-WR-WR-WR	0	SOLW	Moist, soft, white (N9) and light gray (N7), silt-sized particles in a paste-like matrix, cohesive, layering present.	2SS-140H
50							
		OL-0295-14				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
55		OL-0295-15				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			1-0-0-0	0	SOLW	Moist, soft, primarily medium dark gray (N4) and medium gray (N5), with many shades light to dark, silt-sized particles in paste-like matrix, layered mm-cm scale, cohesive with ammonia odor.	2SS-140H
60							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-03

Date: 11/09/2006

Weather: Cloudy 55 deg F

Northing: 1119798.105

Easting: 906596.558

Elevation: 429.17

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 75.0 Ft

Depth Units: Ft

Depth Ft	RecoV	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60							
			7-6-7-8	13	GP	Top 2 inches: moist, soft, medium gray (N5) and various shades of gray, silt-sized particles in paste-like matrix, cohesive (SOLW). Bottom 6 inches: wet, medium dense, olive gray (5Y 3/2) to dark yellowish brown (10YR 4/2), coarse to medium to fine gravel, some coarse to medium sand, little silt, ammonia odor present (GP). At 64 feet observed contact between SOLW and gravel.	2SS-140H
65							
			6-6-7-10	13	GM	Wet to saturated, medium dense, moderate yellowish brown (10YR 5/4), coarse to medium to fine gravel with coarse to medium sand and silt, loose, some moderate reddish brown (10R 4/6) and grayish green (10G 5/2) mottling.	2SS-140H
70							
			10-28-28-28	56	GM	Wet to saturated, medium dense, moderate yellowish brown (10YR 5/4), coarse to medium to fine gravel with coarse to medium sand and silt, loose, some moderate reddish brown (10R 4/6) and grayish green (10G 5/2) mottling.	2SS-140H
75.0							

## BORING LOG

Page 1 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-03D

Install Date: 11/13/2006

Weather: Cloudy 55 deg F

Northing: 1119798.105  
Easting: 906596.558  
Ground Elevation: 429.17

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 60.8 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							
25							

## BORING LOG

Page 2 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-03D

Install Date: 11/13/2006

Weather: Cloudy 55 deg F

Northing: 1119798.105  
Easting: 906596.558  
Ground Elevation: 429.17

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 60.8 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
25								
30								
35								
40								
45								
50								

## BORING LOG

Page 3 of 3

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-03D

Install Date: 11/13/2006

Weather: Cloudy 55 deg F

Northing: 1119798.105  
 Easting: 906596.558  
 Ground Elevation: 429.17

Drilling Company: Parratt Wolff  
 Driller: B. Rice  
 Logging Company: O'Brien and Gere  
 Geologist: J. Gallo  
 Rig Type: ATV

Total Depth: 60.8 Ft  
 Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
50								
55								
60								
60.8								

Boring advanced to 75 feet and backfilled with bentonite to 60.8 feet. Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19775) installed to 59.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-03 for Lithology.

## BORING LOG

Page 1 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-03I

Install Date: 11/13/2006

Weather: Cloudy 55 deg F

Northing: 1119798.105  
Easting: 906596.558  
Ground Elevation: 429.17

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo                      Rig Type: ATV

Total Depth: 40.7 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							
25							



## BORING LOG

Page 2 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-03I

Install Date: 11/13/2006

Weather: Cloudy 55 deg F

Northing: 1119798.105  
Easting: 906596.558  
Ground Elevation: 429.17

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 40.7 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
25								
30								
35								
40								
40.7								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19786) installed to 40.2 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-03 for Lithology.

## BORING LOG

Page 1 of 1

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-03S

Install Date: 11/14/2006

Weather: Cloudy 55 deg F

Northing: 1119798.105  
Easting: 906596.558  
Ground Elevation: 429.17

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 21 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							
21.0							

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-20308) installed to 20.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-03 for Lithology.

## BORING LOG

Page 1 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-04

Date: 11/14/2006 - 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541

Easting: 906128.133

Elevation: 419.10

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 115.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			1-0-0-1	0	SOLW	Top 3 inches: moist, soft, dark yellowish brown (10YR 4/2) silt and organics (soil). Bottom 19 inches: moist, soft, yellowish gray (5Y 8/1), light greenish gray (5GY 8/1) and various shades of gray (N6-N7-N8), silt-sized particles in paste-like matrix, layered.	2SS-140H
			1-0-0-0	0	--	No recovery.	2SS-140H
5							
		OL-0295-16				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10		OL-0295-17				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			1-0-0-0	0	SOLW	Moist, very soft, white (N9) and very light gray (N8) silt-sized particles in a paste-like matrix, layered, cohesive.	2SS-140H
15							
			WR-WR-WR-WR	0	SOLW	Moist, very soft, white (N9), little light gray (N7) silt-sized particles in paste-like matrix, cohesive.	2SS-140H
20							

## BORING LOG

Page 2 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-04

Date: 11/14/2006 - 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541

Easting: 906128.133

Elevation: 419.10

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 115.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20							
			WR-WR-1-0	1	SOLW	Moist, very soft, white (N9), little light gray (N7) silt-sized particles in paste-like matrix, cohesive.	2SS-140H
25							
		OL-0295-18				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30					SOLW	Moist, very soft, white (N9), yellowish gray (5Y 8/1) and medium light gray (N6), silt sized particles in paste-like matrix, layered, cohesive. Note: Blow counts and N values not recorded as spoon was advanced through a previously disturbed interval.	2SS-140H
		OL-0295-19				Shelby tube recovery: 22 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
35							
			WH-WH-WH-WH	0	SOLW	Moist to wet, very soft, white (N9) to very light gray (N8) silt-sized particles in paste-like matrix.	2SS-140H
40							

## BORING LOG

Page 3 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-04

Date: 11/14/2006 - 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541

Easting: 906128.133

Elevation: 419.10

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 115.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40							
			WR-WR-WR-WR	0	--	No recovery.	2SS-140H
45							
			WR-WR-WR-WR	0	--	No recovery.	2SS-140H
50							
		OL-0295-20		2	SOLW	Top 23 inches: moist, soft, white (N9) to medium gray (N5) silt-sized particles in paste-like matrix. Layered mm scale to few cm scale. Bottom 1 inch: in nose of spoon moderate yellowish brown (10YR 5/4) silt.	2SS-140H
55							
			24-40-25-32	65	SP-SC	Top 6 inches: moist to wet, dense, fine gravel and coarse to medium to fine sand, medium dark gray (N4), loose, some silt (SP). Bottom 6 inches: dry to moist, dense, silt with little fine gravel, light brown (5YR 5/6), (Bottom 2 inches: grayish red (10R 4/2)), very tight cohesive (SC).	2SS-140H
60							

# Honeywell

Site: Settling Basins 9-15  
Boring No: SB915-PZ13-04  
Date: 11/14/2006 - 11/16/2006  
Weather: Rain 45 deg F

Total Depth: 115.0 Ft  
Depth Units: Ft

[illegible]

## BORING LOG

Page 5 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-04

Date: 11/14/2006 - 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541

Easting: 906128.133

Elevation: 419.10

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 115.0 Ft

Depth Units: Ft

Depth Ft	Reco	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
80							
			47-63--	63/5	GP	Wet, very dense, pale brown (5YR 5/2) coarse to medium to fine gravel with sand and silt, large rock fragments slight grayish red (10R 4/2) hue.	2SS-140H
85							
			16-17-17-22	34	SP	Wet, medium dense, pale brown (5YR 5/2) coarse to medium sand with some gravel and silt, homogenous, loose slight grayish red (10R 4/2) hue.	2SS-140H
90							
			44-34-29-30	63	GM	Wet, dense, pale brown (5YR 5/2) coarse to medium to fine gravel with coarse to medium sand and little silt.	2SS-140H
95							
			30-30-27-33	57	GM	Wet, dense, pale brown (5YR 5/2) coarse to medium to fine gravel with coarse to medium sand and little silt.	2SS-140H
100							

## BORING LOG

Page 6 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-04

Date: 11/14/2006 - 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541

Easting: 906128.133

Elevation: 419.10

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 115.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
100							
			40-56--	56/.5	GM	Wet, dense, pale brown (5YR 5/2) coarse to medium to fine gravel with coarse to medium sand and little silt.	2SS-140H
105							
		OL-0301-11	20-18-19-21	37	SP	Wet, medium dense, pale brown (5YR 5/2) coarse to medium to fine sand, little fine gravel and silt.	2SS-140H
110							
			22-40-73-	113	CL	Moist, very dense, grayish red (10R 4/2) silt, clay, little fine gravel, very tight, cohesive. Recovery not noted.	2SS-140H
115.0							



## BORING LOG

Page 1 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04D

Install Date: 11/17/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
Easting: 906128.133  
Ground Elevation: 419.1

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo                      Rig Type: ATV

Total Depth: 53 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							

## BORING LOG

Page 2 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04D

Install Date: 11/17/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
Easting: 906128.133  
Ground Elevation: 419.1

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo                      Rig Type: ATV

Total Depth: 53 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
20							
25							
30							
35							
40							

## BORING LOG

Page 3 of 3

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04D

Install Date: 11/17/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
 Easting: 906128.133  
 Ground Elevation: 419.1

Drilling Company: Parratt Wolff  
 Driller: B. Rice  
 Logging Company: O'Brien and Gere  
 Geologist: J. Gallo  
 Rig Type: ATV

Total Depth: 53 Ft  
 Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
40								
45								
50								
53.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19776) installed to 52.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-04 for Lithology.

## BORING LOG

Page 1 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04I

Install Date: 11/20/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
Easting: 906128.133  
Ground Elevation: 419.1

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo                      Rig Type: ATV

Total Depth: 36 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							
25							

## BORING LOG

Page 2 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04I

Install Date: 11/20/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
Easting: 906128.133  
Ground Elevation: 419.1

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 36 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
25								
30								
35								
36.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19774) installed to 35.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-04 for Lithology.

## BORING LOG

Page 1 of 6

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04N

Install Date: 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
Easting: 906128.133  
Ground Elevation: 419.10

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo                      Rig Type: ATV

Total Depth: 113 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

Page 2 of 6

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04N

Install Date: 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
Easting: 906128.133  
Ground Elevation: 419.10

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 113 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
20							
25							
30							
35							
40							

## BORING LOG

Page 3 of 6

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04N

Install Date: 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
Easting: 906128.133  
Ground Elevation: 419.10

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 113 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
40							
45							
50							
55							
60							



## BORING LOG

Page 4 of 6

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04N

Install Date: 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
Easting: 906128.133  
Ground Elevation: 419.10

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 113 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
60								
65								
70								
75								
80								

## BORING LOG

Page 5 of 6

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04N

Install Date: 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
Easting: 906128.133  
Ground Elevation: 419.10

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 113 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
80								
85								
90								
95								
100								

## BORING LOG

Page 6 of 6

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04N

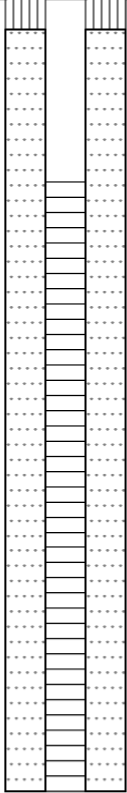
Install Date: 11/16/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
 Easting: 906128.133  
 Ground Elevation: 419.10

Drilling Company: Parratt Wolff  
 Driller: B. Rice  
 Logging Company: O'Brien and Gere  
 Geologist: J. Gallo  
 Rig Type: ATV

Total Depth: 113 Ft  
 Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
100								
105								
110								
113.0								

#1 sand installed for sand pack. Refer to Boring Log SB915-PZ13-04 for Lithology. Screen Material Size 2-in. Diameter 10-slot PVC. Riser Material 2-in. Diameter PVC. Stickup 2.3 ft. Surface Finish Protective Steel Casing to 2.5 ft.

## BORING LOG

Page 1 of 1

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-04S

Install Date: 11/20/2006

Weather: Rain 45 deg F

Northing: 1120268.541  
Easting: 906128.133  
Ground Elevation: 419.1

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 16 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
16.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19781) installed to 15.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-04 for Lithology.

## BORING LOG

Page 1 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-05

Date: 11/01/2006 - 11/02/2006

Weather: Cloudy 50 deg F

Northing: 1120293.821

Easting: 905139.818

Elevation: 432.94

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 55.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			7-4-2-4	6	SOLW	Moist, medium dense, yellowish gray (5Y 8/1) to light gray (N7), sand-sized (some silt) particles in semi-cemented layers.	2SS-140H
			6-7-4-2	11	SOLW	Moist, soft to medium dense, medium dark gray (N4) to light gray (N7) silt, sand-sized particles in paste-like in semi-cemented matrix.	2SS-140H
5							
		OL-0296-01				Shelby tube recovery: 22 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10							
		OL-0296-02				Shelby tube recovery: 18 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			WH-WH-1-1	1	SOLW	Moist to wet, very soft, yellowish gray (5Y 8/1) to very light gray (N8) silt-sized particles in paste-like matrix, cohesive.	2SS-140H
15							
			7-9-4-4	13	SOLW	Moist, medium to dense, very light gray (N8) and yellowish gray (5Y 8/1) medium to fine sand-and silt-sized particles in semi-cemented matrix.	2SS-140H
20							

## BORING LOG

Page 2 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-05

Date: 11/01/2006 - 11/02/2006

Weather: Cloudy 50 deg F

Northing: 1120293.821

Easting: 905139.818

Elevation: 432.94

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 55.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20							
		OL-0296-03				Shelby tube recovery: 22 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
25		OL-0296-04				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			12-8-7-19	15	SOLW	Wet, medium dense, light gray (N7) sand-and silt-sized particles, cemented to semi-cemented, sand particles black (N1).	2SS-140H
30							
			7-3-7-7	10	SOLW	Top 8 inches: wet, medium dense, light gray (N7) sand-and silt-sized particles, cemented-semi-cemented, sand particles black (N1). Bottom 2 inches: wet, medium dense, medium dark gray (N4) sand-and silt-sized particles, cemented-semi-cemented, sand particles black (N1).	2SS-140H
35							
			27-27-34-	61	SOLW	Moist, dense, yellowish gray (5Y 7/2) and medium gray (N5) sand-sized particles with silt-sized particles, cemented to semi-cemented, slight ammonia odor.	2SS-140H
40							

## BORING LOG

Page 3 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-05

Date: 11/01/2006 - 11/02/2006

Weather: Cloudy 50 deg F

Northing: 1120293.821

Easting: 905139.818

Elevation: 432.94

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 55.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40							
			52-32-22-50/2	54	SOLW	Top 18 inches: moist, very dense, light gray (N7) sand and silt-sized particles, cemented (SOLW). Bottom 2 inches: moist, dense, dark yellowish brown (10YR 4/2) coarse to medium gravel with sand and silt (GM). At 44.5 feet contact of SOLW with gravel/silt (GM).	2SS-140H
45							
		OL-0301-12	3-5-8-8	13	SC	Top 7 inches: moist, soft, cohesive, dark yellowish brown (10YR 4/2) silt with some clay and little medium to fine gravel (SC). Bottom 3 inches: Moist, medium, dense, dark yellowish brown (10YR 4/2) coarse to medium to fine gravel with sand and silt, moderate red (5Y 4/6), light brown (5YR 5/6) and grayish green (5G 5/2) mottling present, frequent (GM).	2SS-140H
50							
			7-13-9-24	22	GM	Wet, medium dense, dark yellowish brown (10YR 4/2) coarse to medium to fine gravel with sand and silt, moderate red (5Y 4/6) and grayish green (5G 5/2) mottling speckled throughout.	2SS-140H
55.0							

## BORING LOG

Page 1 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-05I

Install Date: 11/03/2006

Weather: Cloudy 50 deg F

Northing: 1120293.821  
Easting: 905139.818  
Ground Elevation: 432.94

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 35.5 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							



## BORING LOG

Page 2 of 2

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-05I

Install Date: 11/03/2006

Weather: Cloudy 50 deg F

Northing: 1120293.821  
 Easting: 905139.818  
 Ground Elevation: 432.94

Drilling Company: Parratt Wolff  
 Driller: B. Rice  
 Logging Company: O'Brien and Gere  
 Geologist: J. Gallo                      Rig Type: ATV

Total Depth: 35.5 Ft  
 Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
35								
35.5								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19785) installed to 35 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-05 for Lithology.

## BORING LOG

Page 1 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-05N

Install Date: 11/03/2006

Weather: Cloudy 50 deg F

Northing: 1120293.821  
Easting: 905139.818  
Ground Elevation: 432.94

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo                      Rig Type: ATV

Total Depth: 56.5 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

Page 2 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-05N

Install Date: 11/03/2006

Weather: Cloudy 50 deg F

Northing: 1120293.821  
Easting: 905139.818  
Ground Elevation: 432.94

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 56.5 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
20							
25							
30							
35							
40							

## BORING LOG

Page 3 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-05N

Install Date: 11/03/2006

Weather: Cloudy 50 deg F

Northing: 1120293.821  
Easting: 905139.818  
Ground Elevation: 432.94

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 56.5 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
40							
45							
50							
55							
56.5							

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19772) installed to 56 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-05 for Lithology.

## BORING LOG

Page 1 of 1

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-05S

Install Date: 11/06/2006

Weather: Cloudy 50 deg F

Northing: 1120293.821  
Easting: 905139.818  
Ground Elevation: 432.94

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 15.3 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
15.3								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-20311) installed to 14.8 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-05 for Lithology.

## BORING LOG

Page 1 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-06

Date: 11/01/2006 - 11/03/2006

Weather: Sunny 55 deg F

Northing: 1119415.285

Easting: 905592.804

Elevation: 428.67

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W.M.,J.W.,Y.V

Rig Type: ATV 850

Total Depth: 65.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0						Shelby tube recovery: 0 inches.	Shelby
5			WH-WH-WH-WH	0	SOLW	Wet, loose, white and gray, paste-like SOLW.	2SS-140H
		OL-0296-05				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10		OL-0296-06				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
15			WH-WH-WH-1	0	SOLW	Wet, very soft, light gray to medium gray with 0.5 inch dark gray layer at 16.9 feet, paste-like with cemented coarse gravel-sized particles in nose.	2SS-140H
20							

## BORING LOG

Page 2 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-06

Date: 11/01/2006 - 11/03/2006

Weather: Sunny 55 deg F

Northing: 1119415.285

Easting: 905592.804

Elevation: 428.67

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W.M,J.W,Y.V

Rig Type: ATV 850

Total Depth: 65.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			WH-WH-WH-WH	0	SOLW	Moist, very soft, very light gray, paste-like to slightly consolidated, some medium gray silt-and sand-sized particles (ash-like) in top 1 inch.	2SS-140H
25			WH-WH-2-4	2	SOLW	Top 3 inches: wet, light gray, soft, paste-like silt. Bottom 11 inches: wet, soft to stiff, medium gray, few cemented layers (2 inches thick), and some medium gravel-sized cemented particles in paste-like matrix.	2SS-140H
30		OL-0296-07				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0296-08				Shelby tube recovery: 19 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
35			WH-WH-WH-WH	0	SOLW	Top 4 inches: wet, soft, light gray, paste-like silt with few consolidated particles. Next 6 inches: light gray, wet, soft, paste-like silt. Bottom 12 inches is wet, very soft, very light gray, paste-like silt.	2SS-140H
40							

## BORING LOG

Page 3 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-06

Date: 11/01/2006 - 11/03/2006

Weather: Sunny 55 deg F

Northing: 1119415.285

Easting: 905592.804

Elevation: 428.67

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W.M.,J.W.,Y.V

Rig Type: ATV 850

Total Depth: 65.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			WR-WR-WR-WR	0	SOLW	Wet, very soft, very light gray with some light gray layers (1-2 inches thick), paste-like silt.	2SS-140H
					SOLW	Top 6 inches-Wet, soft, dark gray to light gray layers (mm scale), paste-like to consolidated SILT. Bottom 6 inches-Wet, soft, white to light gray, paste-like silt. Note: Blow counts and N value not recorded as spoon was advanced through a previously disturbed interval.	2SS-140H
45		OL-0296-09				Shelby tube recovery: 12 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0296-10				Shelby tube recovery: 21 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
50			WH-WH-WH-WH	0	SOLW	Top 9 inches: wet, soft, medium gray, paste-like silt. Next 8 inches: wet, soft, alternating 1/4 inch thick layers of white to medium gray, paste-like silt. Bottom 7 inches: wet, soft, white, paste-like silt, 1 inch layer of medium gray in bottom.	2SS-140H
55			20-7-14-10	21	GC	Moist, dense to stiff, brown with some gray to greenish to reddish mottling, fine to coarse sub-angular gravel embedded in a fine-grained matrix, little fine to coarse sand, trace silt, slight odor.	2SS-140H
60							



## BORING LOG

Page 4 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-06

Date: 11/01/2006 - 11/03/2006

Weather: Sunny 55 deg F

Northing: 1119415.285

Easting: 905592.804

Elevation: 428.67

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W.M.,J.W.,Y.V

Rig Type: ATV 850

Total Depth: 65.0 Ft

Depth Units: Ft

Depth Ft	RecoV	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			6-6-8-8	14	GC	Very wet, medium dense, light brown, fine to coarse gravel (sub-angular) with trace fine to coarse sand, trace silt, less matrix-supported.	2SS-140H
			5-7-8-8	15	GC	Wet, medium dense, light brown, fine to medium gravel (sub-rounded), little medium to coarse sand, trace silt, gravel is somewhat matrix-supported (embedded).	2SS-140H

65.0

## BORING LOG

Page 1 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-06D

Install Date: 11/03/2006

Weather: Sunny, 55 deg F

Northing: 1119415.285  
Easting: 905592.804  
Ground Elevation: 428.67

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: W.Monette,J.Williams Rig Type: ATV

Total Depth: 50 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							

## BORING LOG

Page 2 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-06D

Install Date: 11/03/2006

Weather: Sunny, 55 deg F

Northing: 1119415.285  
Easting: 905592.804  
Ground Elevation: 428.67

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: W.Monette,J.Williams Rig Type: ATV

Total Depth: 50 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
20							
25							
30							
35							
40							

## BORING LOG

Page 3 of 3

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-06D

Install Date: 11/03/2006

Weather: Sunny, 55 deg F

Northing: 1119415.285  
 Easting: 905592.804  
 Ground Elevation: 428.67

Drilling Company: Parratt Wolff  
 Driller: R. Navatka  
 Logging Company: O'Brien and Gere  
 Geologist: W.Monette,J.Williams,R.Helms

Total Depth: 50 Ft  
 Depth Units: Ft Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
40								
45								
50.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19771) installed to 49.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-06 for Lithology.

## BORING LOG

Page 1 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-06I

Install Date: 11/03/2006

Weather: Sunny, 55 deg F

Northing: 1119415.285  
Easting: 905592.804  
Ground Elevation: 428.67

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: W.Monette,J.Williams Rig Type: ATV

Total Depth: 35 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							

## BORING LOG

Page 2 of 2

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-06I

Install Date: 11/03/2006

Weather: Sunny, 55 deg F

Northing: 1119415.285  
 Easting: 905592.804  
 Ground Elevation: 428.67

Drilling Company: Parratt Wolff  
 Driller: R. Navatka  
 Logging Company: O'Brien and Gere  
 Geologist: W.Monette,J.Williams Rig Type: ATV

Total Depth: 35 Ft  
 Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
35.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-20306) installed to 34.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-06 for Lithology.

## BORING LOG

Page 1 of 4

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-06N

Install Date: 11/03/2006

Weather: Sunny 55 deg F

Northing: 1119415.285  
Easting: 905592.804  
Ground Elevation: 428.67

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: W.Monette,J.Williams Rig Type: ATV

Total Depth: 65 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

Page 2 of 4

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-06N

Install Date: 11/03/2006

Weather: Sunny 55 deg F

Northing: 1119415.285  
Easting: 905592.804  
Ground Elevation: 428.67

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: W.Monette,J.Williams Rig Type: ATV

Total Depth: 65 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
20							
25							
30							
35							
40							



## BORING LOG

Page 3 of 4

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-06N

Install Date: 11/03/2006

Weather: Sunny 55 deg F

Northing: 1119415.285  
Easting: 905592.804  
Ground Elevation: 428.67

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: W.Monette,J.Williams Rig Type: ATV

Total Depth: 65 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
40							
45							
50							
55							
60							

## BORING LOG

Page 4 of 4

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-06N

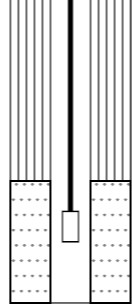
Install Date: 11/03/2006

Weather: Sunny 55 deg F

Northing: 1119415.285  
 Easting: 905592.804  
 Ground Elevation: 428.67

Drilling Company: Parratt Wolff  
 Driller: R. Navatka  
 Logging Company: O'Brien and Gere  
 Geologist: W.Monette,J.Williams Rig Type: ATV

Total Depth: 65 Ft  
 Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
60								
65.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19769) installed to 64 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-06 for Lithology.

## BORING LOG

Page 1 of 1

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-06S

Install Date: 11/03/2006

Weather: Sunny, 55 deg F

Northing: 1119415.285  
Easting: 905592.804  
Ground Elevation: 428.67

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: W.Monette,J.Williams Rig Type: ATV

Total Depth: 20 Ft  
Depth Units: Ft

Depth	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-20307) installed to 19.5 ft. #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-06 for Lithology.

## BORING LOG

Page 1 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-07

Date: 11/13/2006 - 11/15/2006

Weather: Cloudy 40 deg F

Northing: 1120883.329

Easting: 908936.0564

Elevation: 438.23

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: J. Williams

Rig Type: ATV 850

Total Depth: 59.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			4-6-7-7	13	SM	Top 4 inches: moist, medium dense, light brown (5YR 6/4), topsoil, silt, and coarse to medium to fine sand, some coarse to medium to fine gravel. Bottom 6 inches: moist, medium dense, light brown, silt, some coarse to medium to fine sand, trace clay.	2SS-140H
5			2-3-6-10	9	GC	Moist, loose, dark yellowish brown (10YR 4/2) medium to fine gravel, some coarse to medium to fine sand, little silt, little clay.	2SS-140H
10			6-13-15-14	28	SOLW	Top 4 inches: moist, medium dense, dark yellowish brown (10 YR 4/2) medium to fine gravel, some clay, some coarse to medium to fine sand, little silt (GC). Bottom 4 inches: moist, medium dense, light gray (N7), sand-sized particles in a cemented matrix (SOLW). At 11 feet observed contact between gravel and SOLW.	2SS-140H
15			8-14-7-6	21	SOLW	Top 2 inches: saturated, medium dense, dark yellowish brown (10YR 4/2) medium to fine gravel and coarse to medium to fine sand, little clay, little silt (GC). Bottom 6 inches: wet, medium dense, light gray (N7), sand-sized particles in a cemented matrix (SOLW).	2SS-140H
20							

## BORING LOG

Page 2 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-07

Date: 11/13/2006 - 11/15/2006

Weather: Cloudy 40 deg F

Northing: 1120883.329

Easting: 908936.0564

Elevation: 438.23

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: J. Williams

Rig Type: ATV 850

Total Depth: 59.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			13-9-10-13	19	SOLW	Saturated, medium dense, medium gray (N5), cemented sand-and silt-sized particles in a paste-like matrix (SOLW).	2SS-140H
25		OL-0301-16	14-9-10-15	19	GC	Top 10 inches: moist, medium dense, medium gray SOLW and coarse to medium to fine sand, trace root organics, trace fill material (glass) (GC). Next 10 inches: moist, medium dense, dark yellow brown coarse to medium to fine sand, some clay, some silt, trace cinder material. Bottom 4 inches: moist, medium dense, medium gray (N5), cemented sand-sized particles (SOLW).	2SS-140H
30			9-5-7-12	12	SOLW	Top 7 inches: damp to moist, stiff, white to light gray, cemented to consolidated sand-sized particles (SOLW/ash mix). Bottom 7 inches: damp to moist, stiff, white to light gray, cemented to consolidated sand-sized particles, some alternating 1/4 inch layers of dark and light gray.	2SS-140H
35			15-17-15-20	32	SOLW	Moist, stiff to hard, light gray, cemented silt-and sand-sized grains (SOLW/ash mix).	2SS-140H
40							

## BORING LOG

Page 3 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-07

Date: 11/13/2006 - 11/15/2006

Weather: Cloudy 40 deg F

Northing: 1120883.329

Easting: 908936.0564

Elevation: 438.23

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: J. Williams

Rig Type: ATV 850

Total Depth: 59.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			WH-WH-WH-3	0	SOLW	Top 6 inches: wet, soft, light gray, few cemented gravel-sized particles in paste-like matrix. Next 9 inches: moist, soft, white with few 1/4 inch light gray layers, paste-like matrix. Bottom 6 inches: moist, soft, alternating white to medium gray layers, some cemented particles in nose of spoon.	2SS-140H
45			4-20-16-10	36	SOLW	Moist, hard, tan, cemented silt-and sand-sized grains.	2SS-140H
50			10-50/0.3-	50/3	SOLW	Wet, hard, tan, cemented silt and sand-sized grains, some medium gray in top 2 inches.	2SS-140H
55			15-16-15-17	31	SOLW/SW	Top 1 inch: wet, dense, light gray, cemented silt and sand (SOLW). Next 2 inches: wet, dense, tan and brown, sand, some fine gravel (SOLW). Bottom 12 inches: moist, medium dense, moderate yellowish brown, fine to medium sand, well sorted (SW). At 56 feet observed contact between SOLW and sand.	2SS-140H
			15-10-12-37	22	SW/SM/GC	Top 3 inches: moist, medium dense, moderate yellowish brown, fine to medium sand well sorted with 1 inch layer of coarse, olive brown, sand (SW-SM). Bottom 10 inches: wet, stiff, medium yellow brown, SILT, some fine sand, slightly cohesive, not plastic (SM), some matrix supported, sub-angular fine to coarse gravel in nose of spoon (GC).	2SS-140H
59.0							

## BORING LOG

Page 1 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-07

Install Date: 11/15/2006

Weather: Cloudy 40 deg F

Northing: 1120883.329  
Easting: 908936.0564  
Ground Elevation: 438.23

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Williams      Rig Type: ATV

Total Depth: 55 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

Page 2 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-07

Install Date: 11/15/2006

Weather: Cloudy 40 deg F

Northing: 1120883.329  
Easting: 908936.0564  
Ground Elevation: 438.23

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Williams      Rig Type: ATV

Total Depth: 55 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
35								
40								



## BORING LOG

Page 3 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-07

Install Date: 11/15/2006

Weather: Cloudy 40 deg F

Northing: 1120883.329  
Easting: 908936.0564  
Ground Elevation: 438.23

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Williams      Rig Type: ATV

Total Depth: 55 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
40								
45								
50								
55.0								

Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19782) installed to 54 ft.  
Boring advanced to to 59 feet and backfilled with bentonite to 55 feet. #1 sand installed for filter pack.  
Refer to Boring Log SB915-PZ13-07 for Lithology.

## BORING LOG

Page 1 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-08

Date: 11/22/2006 - 11/29/2006

Weather: Partly Cloudy 40 deg F

Northing: 1121311.175

Easting: 907757.5303

Elevation: 431.35

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			4-5-8-6	13	ML	Top 5 inches: dry, medium dense dark yellowish brown (10YR 4/2) gravel and silt. Bottom 5 inches: dry, dense, stiff, grayish red (5R 4/2) silt and clay with some medium to fine gravel, cohesive, tight.	2SS-140H
5			5-5-4-4	9	ML	Moist, medium dense, grayish red (10R 4/2) silt and clay, little fine gravel, slightly cohesive, stiff.	2SS-140H
10			2-3-5-4	8	ML	Top 3 inches: moist, medium dense, grayish red (10R 4/2) silt and clay, little fine gravel, slightly cohesive, stiff. Bottom 9 inches: moist, stiff, dusky red (5R 3/4) silt and clay with medium to fine gravel, more cohesive than above interval, wetter, trace light brown (5YR 5/6) and light olive (10Y 5/4) mottling present.	2SS-140H
15		OL-0301-17	4-15-15-15	30	ML	Dry, stiff, dusky red (5R 3/4) silt and clay with medium to fine gravel, more cohesive than above interval, wetter, trace light brown (5YR 5/6) and light olive (10Y 5/4) mottling present.	2SS-140H
20							

## BORING LOG

Page 2 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-08

Date: 11/22/2006 - 11/29/2006

Weather: Partly Cloudy 40 deg F

Northing: 1121311.175

Easting: 907757.5303

Elevation: 431.35

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			4-10-15-13	25	ML	Dry, stiff, dusky red (5R 3/4) silt and clay with medium to fine gravel, more cohesive than above interval, wetter, trace light brown (5YR 5/6) and light olive (10Y 5/4) mottling present.	2SS-140H
25			6-8-8-9	16	ML	Dry, stiff, dusky red (5R 3/4) silt and clay with medium to fine gravel, more cohesive than above interval, wetter, trace light brown (5YR 5/6) and light olive (10Y 5/4) mottling present.	2SS-140H
30			10-13-16-50	29	ML	Dry, stiff, dusky red (5R 3/4) silt and clay with medium to fine gravel, more cohesive than above interval, wetter, trace light brown (5YR 5/6) and light olive (10Y 5/4) mottling present.	2SS-140H
35			19-17-10-12	27	GM	Moist to wet, medium dense, dark yellowish brown (10YR 4/2) medium to fine gravel with sand and silt, loose, frequent mottling various shades of yellow, green, red, and brown.	2SS-140H
40							

## BORING LOG

Page 3 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-08

Date: 11/22/2006 - 11/29/2006

Weather: Partly Cloudy 40 deg F

Northing: 1121311.175

Easting: 907757.5303

Elevation: 431.35

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			50/03--	50/3	--	No recovery.	2SS-140H
45			16-24-24-17	48	GM	Dry, dense, pale brown (5YR 5/2) to dark yellowish brown (10YR 4/2) coarse to medium to fine gravel with sand and silt, various shades of mottling still present, not as abundant.	2SS-140H
50			22-25-28-31	53	GM	Dry to moist, denser pale brown (5YR 5/2) to dark yellowish brown (10YR 4/2) coarse to medium to fine gravel, (weathered shale?) with sand and silt, frequent mottling, yellow, green, brown, and red.	2SS-140H
55			14-16-20-17	36	GM	Dry, denser pale brown (5YR 5/2) to dark yellowish brown (10YR 4/2) coarse to medium to fine gravel, (weathered shale?) with sand and silt, frequent mottling, yellow, green, brown, and red.	2SS-140H
60							

# Honeywell

Site: Settling Basins 9-15  
Boring No: SB915-PZ13-08  
Date: 11/22/2006 - 11/29/2006  
Weather: Partly Cloudy 40 deg F

Drilling Company: Parratt Wolff  
Driller: Bill Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo                      Rig Type: ATV 850

Total Depth: 62.0 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			11-9-13-15	22	GM	Wet to saturated, denser pale brown (5YR 5/2) to dark yellowish brown (10YR 4/2) coarse to medium to fine gravel, (weathered shale?) with sand and silt, frequent mottling, yellow, green, brown, and red.	2SS-140H
62.0							

## BORING LOG

Page 1 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-08

Install Date: 11/29/2006

Weather: Partly Cloudy 40 deg F

Northing: 1121311.175  
Easting: 907757.5303  
Ground Elevation: 431.35

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 41 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								
25								

## BORING LOG

Page 2 of 2

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-08

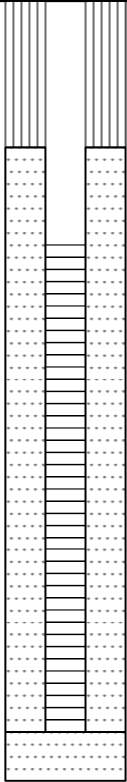
Install Date: 11/29/2006

Weather: Partly Cloudy 40 deg F

Northing: 1121311.175  
Easting: 907757.5303  
Ground Elevation: 431.35

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 41 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
25								

Boring advanced to 62 feet and backfilled with bentonite to 41 feet.  
#1 sand installed for sand pack. Refer to Boring Log SB915-PZ13-08 for Lithology.  
Screen Material 2-in. Diameter 10-slot PVC. Riser Material 2-in. Diameter PVC.  
Stickup 2.57 ft. Surface Finish Protective Steel Casing to 2.88 ft.

## BORING LOG

Page 1 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-09

Date: 11/15/2006 - 11/16/2006

Weather: Overcast 45 deg F

Northing: 1121340.066

Easting: 906439.0786

Elevation: 432.48

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: J. Williams

Rig Type: ATV 850

Total Depth: 45.9 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			5-11-11-14	22	GM	Damp to dry, medium dense, medium yellowish brown, fine to coarse gravel embedded in a silt / fine to coarse sand matrix, 1/2 inch layer of vegetation and topsoil at top (Berm fill material).	2SS-140H
5			3-6-33-28	39	GC	Moist, dense, dark yellowish brown, fine gravel in silt matrix, little fine to coarse sand, piece of coarse gravel in nose of spoon (Poor recovery).	2SS-140H
10			7-15-13-15	28	GC	Moist, medium dense, medium reddish brown medium to fine gravel and fine to coarse sand in clay matrix, little silt.	2SS-140H
15			13-16-12-13	28	GC	Moist, medium dense, medium reddish brown medium to fine gravel and fine to coarse sand in clay matrix, little silt.	2SS-140H
20							



## BORING LOG

Page 2 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-09

Date: 11/15/2006 - 11/16/2006

Weather: Overcast 45 deg F

Northing: 1121340.066

Easting: 906439.0786

Elevation: 432.48

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: J. Williams

Rig Type: ATV 850

Total Depth: 45.9 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			13-19-21-22	40	--	No Recovery. Auger cuttings look similar as interval 15 to 17 feet, no change noted.	2SS-140H
25			6-9-6-5	15	--	No Recovery. Second spoon no recovery. Auger cuttings look similar as interval 15 to 17 feet, no change noted.	2SS-140H
30			5-11-13-10	24	GC	Moist, medium dense, medium reddish brown, medium to fine gravel and fine to coarse sand in a clay-like matrix, little silt.	2SS-140H
35			14-14-18-22	32	GC	Moist, medium dense, medium reddish brown, medium to fine gravel and fine to coarse sand in a clay-like matrix, little silt.	2SS-140H
40							

## BORING LOG

Page 3 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring No: SB915-PZ13-09

Date: 11/15/2006 - 11/16/2006

Weather: Overcast 45 deg F

Northing: 1121340.066

Easting: 906439.0786

Elevation: 432.48

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: J. Williams

Rig Type: ATV 850

Total Depth: 45.9 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			10-22-19-16	41	SM	Dry, dense, moderate yellowish brown, fine sand, trace silt, trace medium sand, compacted, 1 inch layer of dark gray at 40.5 feet, slight sewage-like odor.	2SS-140H
45			33-50/0.4-	50/.4	GP	Dry, very dense, gray, fine to coarse gravel (sub-angular) with some fine to coarse sand (looks like crushed rock).	2SS-140H
45.9							

## BORING LOG

Page 1 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-09

Install Date: 11/16/2006

Weather: Overcast 45 deg F

Northing: 1121340.066  
Easting: 906439.0786  
Ground Elevation: 432.48

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Williams      Rig Type: ATV

Total Depth: 37.5 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method
0							
5							
10							
15							
20							

## BORING LOG

Page 2 of 2

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-09

Install Date: 11/16/2006

Weather: Overcast 45 deg F

Northing: 1121340.066  
 Easting: 906439.0786  
 Ground Elevation: 432.48

Drilling Company: Parratt Wolff  
 Driller: R. Navatka  
 Logging Company: O'Brien and Gere  
 Geologist: J. Williams      Rig Type: ATV

Total Depth: 37.5 Ft  
 Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
35								
37.5								

Boring advanced to 45.9 feet and backfilled with bentonite to 37.5 feet.  
 Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19783) installed to 36.5 ft.  
 #1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-09 for Lithology.

## BORING LOG

Page 1 of 2

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-10

Date: 11/29/2006 - 11/30/2006

Weather: Cloudy 60 deg F

Northing: 1121426.64

Easting: 906163.3094

Elevation: 397.45

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 32.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0						Hand cleared, no sample.	
5							
10			3-4-4-5	8	SM	Moist, medium stiff, moderate yellowish brown (10YR 5/4) very fine sand and silt, homogenous.	2SS-140H
15			3-5-5-6	10	SM	Wet, medium stiff, moderate yellowish brown (10YR 5/4) very fine sand and silt, homogenous.	2SS-140H
20							

## BORING LOG

Page 2 of 2

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-10

Date: 11/29/2006 - 11/30/2006

Weather: Cloudy 60 deg F

Northing: 1121426.64

Easting: 906163.3094

Elevation: 397.45

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 32.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			50—	50/5	GM	Poor recovery. Moist, dense, dark yellowish brown (10YR 4/2) coarse to medium gravel with sand and silt, frequent mottling of various shades, green, red, and brown.	2SS-140H
25			6-8-7-6	15	GM	Poor recovery: sample taken from spoon nose, not sure if it is representative sample. Saturated, dense, gravel with sand and silt.	2SS-140H
30			42-4-4-4	8	GM	Saturated to wet, loose, dark yellowish brown (10YR 4/2) medium to fine gravel/coarse sand with medium to fine sand and silt, abundant green and red mottling.	2SS-140H
32.0							

## BORING LOG

Page 1 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-10

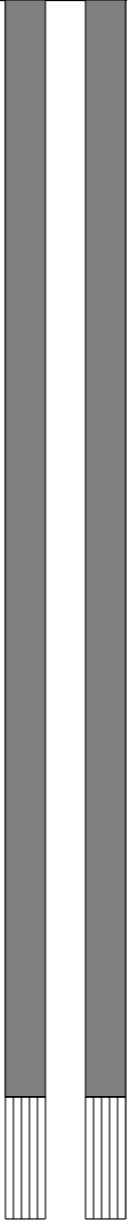
Install Date: 11/30/2006

Weather: Cloudy 60 deg F

Northing: 1121426.64  
Easting: 906163.3094  
Ground Elevation: 397.45

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 32 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

Page 2 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-10

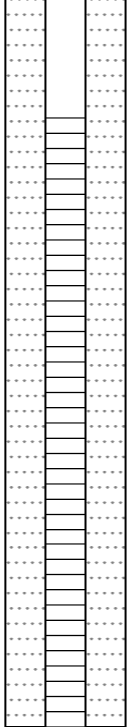
Install Date: 11/30/2006

Weather: Cloudy 60 deg F

Northing: 1121426.64  
Easting: 906163.3094  
Ground Elevation: 397.45

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 32 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
32.0								

#1 sand installed for sand pack. Refer to Boring Log SB915-PZ13-10 for Lithology. Screen Material 2-in. Diameter 10-slot PVC. Riser Material 2-in. Diameter PVC. Stickup 1.77 ft. Surface Finish Protective Steel Casing to 2.5 ft.



## BORING LOG

Page 1 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-11

Date: 11/16/2006 - 11/17/2006

Weather: Rain 50 deg F

Northing: 1120929.583

Easting: 905552.4752

Elevation: 432.44

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: J. Williams

Rig Type: ATV 850

Total Depth: 59.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			3-4-6-8	10	GM	Top 7 inches: damp, loose, yellowish brown, fine to coarse gravel with little fine to coarse sand, little silt, 1 inch layer of topsoil on top (GM). Bottom 7 inches: moist, firm, reddish brown, silt matrix with some fine to medium gravel embedded, trace sand, trace clay (GC).	2SS-140H
5			3-4-7-6	11	GC	Moist, firm, reddish brown silt and clay matrix with some fine to medium gravel embedded, trace sand.	2SS-140H
10			7-9-9-11	18	GC	Moist, firm, reddish brown silt and clay matrix with some fine to medium gravel embedded, trace sand.	2SS-140H
15			18-15-17-11	32	GC	Moist, hard, reddish brown silt and clay matrix, little medium to fine gravel, trace sand.	2SS-140H
20							

## BORING LOG

Page 2 of 3



Site: Settling Basins 9-15

Boring No: SB915-PZ13-11

Date: 11/16/2006 - 11/17/2006

Weather: Rain 50 deg F

Northing: 1120929.583

Easting: 905552.4752

Elevation: 432.44

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: J. Williams

Rig Type: ATV 850

Total Depth: 59.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			16-16-16-16	32	GC	Moist, hard, reddish brown silt and clay matrix, little medium to fine gravel, trace sand.	2SS-140H
25		OL-0301-19	8-11-13-8	24	GC	Moist, hard, reddish brown silt and clay matrix, little medium to fine gravel, trace sand.	2SS-140H
30			7-11-14-14	25	GC	Moist, hard, red brown, silt matrix with some embedded fine to medium gravel, trace sand, trace clay, cohesive, not plastic.	2SS-140H
35			15-33-45-50/4	78	GC	Top 7 inches: moist, hard, red brown, silt matrix with some embedded fine to medium gravel, trace sand, trace clay, cohesive, not plastic (GC). Bottom 7 inches: moist, dense, olive brown, fine gravel, some medium to coarse sand, little silt, slight odor, piece of coarse gravel in nose of spoon (GM).	2SS-140H
40							

## BORING LOG

Page 3 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-11

Date: 11/16/2006 - 11/17/2006

Weather: Rain 50 deg F

Northing: 1120929.583

Easting: 905552.4752

Elevation: 432.44

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: J. Williams

Rig Type: ATV 850

Total Depth: 59.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			6-6-7-8	13	ML	Wet to moist, stiff, brown, silt, trace clay, grading to a silt with trace fine sand, faint yellow/reddish mottling, cohesive, wet, silty, medium gravel, in nose.	2SS-140H
45			6-5-5-5	10	GM	Top 1 inch: wet, silty, medium gravel. Bottom 11 inches: damp, medium dense, dark yellowish gravel, sub-rounded fine to medium gravel, some fine to coarse sand, trace silt.	2SS-140H
			8-8-10-10	18	GM	Damp, medium dense yellowish brown, fine to coarse gravel, some fine to coarse sand, trace silt, embedded and slightly cohesive in top 2 inches.	2SS-140H
50			9-8-9-9	17	GM	Damp to dry, medium dense, yellowish brown, sub-rounded fine to medium gravel, some fine to coarse sand, trace silt.	2SS-140H
			8-10-12-12	22	GM	Top 15 inches: damp, medium dense, dark yellowish brown, fine gravel and fine to coarse sand, trace silt. Bottom 6 inches: damp to dry, medium dense, fine to medium gravel with some fine to coarse sand, trace silt, brown to gray.	2SS-140H
55			10-12-15-19	27	GM	Damp, medium dense, yellowish brown, fine to coarse gravel, some fine to coarse sand, trace silt, compacted in spoon nose.	2SS-140H
			18-15-15-19	30	GM	Top 13 inches: damp, medium dense, yellowish brown, fine to medium gravel, some fine to coarse sand, trace silt, dense. Bottom 3 inches: wet, medium dense, yellowish brown, fine to medium gravel, some fine to coarse sand, trace silt. At 58.7 feet water is observed.	2SS-140H
59.0							

## BORING LOG

Page 1 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-11

Install Date: 11/17/2006

Weather: Rain 50 deg F

Northing: 1120929.583  
Easting: 905552.4752  
Ground Elevation: 432.44

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Williams      Rig Type: ATV

Total Depth: 42 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								
25								

## BORING LOG

Page 2 of 2

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-11

Install Date: 11/17/2006

Weather: Rain 50 deg F

Northing: 1120929.583  
Easting: 905552.4752  
Ground Elevation: 432.44

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Williams      Rig Type: ATV

Total Depth: 42 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
25								
30								
35								
40								
42.0								

Boring advanced to 59 feet and backfilled with bentonite to 42 feet.  
Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19787) installed to 41 ft.  
#1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-11 for Lithology.

## BORING LOG

Page 1 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-12

Date: 11/28/2006 - 11/29/2006

Weather: Cloudy 55 deg F

Northing: 1119924.605

Easting: 904973.6747

Elevation: 431.51

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 52.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			7-17-15-10	32	GM	Top 8 inches: moist, dense, dark yellowish brown (10YR 4/2) gravel with sand and silt, some roots and organics (GM). Bottom 6 inches: dry, dense, pale reddish brown (10R 5/4) to grayish red (10R 4/2) silt and clay with some fine gravel, tight, till-like (ML).	2SS-140H
5			14-28-31-28	59	ML	Top 3 inches: moist, dense, pale reddish brown (10R 5/4) to grayish red (10R 4/2) silt and clay with some coarse to fine gravel, tight, till-like. Bottom 9 inches: dry, dense, pale reddish brown (10R 5/4) to grayish red (10R 4/2) silt and clay with some coarse to fine gravel, tight, till-like.	2SS-140H
10			6-5-5-4	10	ML	Moist, dense, pale reddish brown (10R 5/4) to grayish red (10R 4/2) silt and clay with some fine gravel, tight, till-like.	2SS-140H
15			13-13-23-30	36	ML	Moist, dense, pale reddish brown (10R 5/4) to grayish red (10R 4/2) silt and clay with little coarse to some fine gravel, tight, till-like.	2SS-140H
20							

## BORING LOG

Page 2 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-12

Date: 11/28/2006 - 11/29/2006

Weather: Cloudy 55 deg F

Northing: 1119924.605

Easting: 904973.6747

Elevation: 431.51

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 52.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			12-8-5-10	13	ML	Moist, dense, pale reddish brown (10R 5/4) to grayish red (10R 4/2) silt and clay with little coarse to some fine gravel, tight, till-like.	2SS-140H
25			7-7-7-14	14	ML	Moist, dense, pale reddish brown (10R 5/4) to grayish red (10R 4/2) silt and clay with little coarse to some fine gravel, tight, till-like, some light brown (5YR 5/6) and pale yellowish green (10GY 7/2) mottling in top 1/2 of sample.	2SS-140H
30			6-14-30-34	44	ML	Moist, dense, pale reddish brown (10R 5/4) to grayish red (10R 4/2) silt and clay with little coarse to some fine gravel, tight, till-like, little to no mottling.	2SS-140H
35		OL-0301-20	4-6-10-15	16	OH	Top 9 inches: moist, medium dense, dark yellowish brown (10YR 4/2) silt and clay, very little fine gravel, roots present (OH). Bottom 5 inches: moist, medium dense, light brown (5YR 5/6) to medium brown (5YR 4/4) very fine sand and silt (SM).	2SS-140H
40							

## BORING LOG

Page 3 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-12

Date: 11/28/2006 - 11/29/2006

Weather: Cloudy 55 deg F

Northing: 1119924.605

Easting: 904973.6747

Elevation: 431.51

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 52.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			15-13-10-15	23	GM	Top 4 inches: moist, medium dense, pale reddish brown (10R 5/4) and dusky yellow (5Y 6/4) silt and clay (OH). Bottom 8 inches: dry, dense, dark yellowish brown (10YR 4/2) gravel with sand and silt, frequent green, red, and brown mottling (GM).	2SS-140H
45			10-13-13-17	26	GM	Dry, dense, dark yellowish brown (10YR 4/2) gravel with sand and silt, frequent green, red, and brown mottling.	2SS-140H
50			9-12-9-20	21	GM	Dry, dense, dark yellowish brown (10YR 4/2) gravel with sand and silt, frequent green, red, and brown mottling.	2SS-140H
52.0							



## BORING LOG

Page 1 of 2

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-12

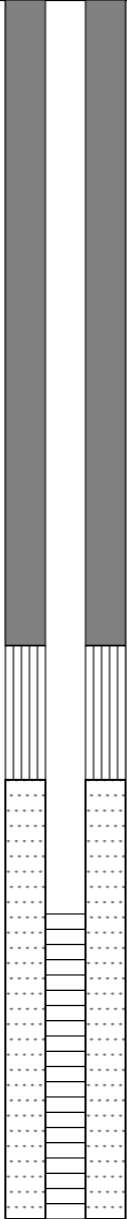
Install Date: 11/29/2006

Weather: Cloudy 55 deg F

Northing: 1119924.605  
Easting: 904973.6747  
Ground Elevation: 431.51

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 26 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

Page 2 of 2

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-12

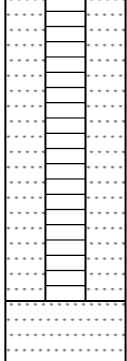
Install Date: 11/29/2006

Weather: Cloudy 55 deg F

Northing: 1119924.605  
Easting: 904973.6747  
Ground Elevation: 431.51

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 26 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
26.0								

Boring advanced to 52 feet and backfilled with bentonite to 26 feet.  
#1 sand installed for sand pack. Refer to Boring Log SB915-PZ13-12 for Lithology.  
Screen Material 2-in. Diameter 10-slot PVC. Riser Material 2-in. Diameter PVC. Stickup 1.99 ft.  
Surface Finish Protective Steel Casing to 2.5 ft.

## BORING LOG

Page 1 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-13

Date: 11/20/2006 - 11/21/2006

Weather: Rain/Snow 30 deg F

Northing: 1118719.423

Easting: 905026.6963

Elevation: 434.26

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz

Rig Type: ATV 850

Total Depth: 57.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			7-13-28-27	41	SP	Top 6 inches: moist, stiff, moderate brown silt, some clay, little fine sand (ML). Bottom 14 inches: dry, dense, pale yellowish brown, medium sand and gravel (SP). At 0.5 feet observed contact between silt and sand gravel.	2SS-140H
5			8-3-2-5	5	ML	Dry, stiff, dark reddish brown, silt, some fine sand, little gravel. At 5 feet inferred contact between sand/gravel and silt.	2SS-140H
10		OL-0302-03	5-6-20-16	26	ML	Dry, hard, dark reddish brown, silt, some fine sand, little gravel.	2SS-140H
15			13-15-12-8	27	SP	Dry, hard, dark yellowish brown, medium to coarse sand, some gravel, little silt.	2SS-140H
20							

## BORING LOG

Page 2 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-13

Date: 11/20/2006 - 11/21/2006

Weather: Rain/Snow 30 deg F

Northing: 1118719.423

Easting: 905026.6963

Elevation: 434.26

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz

Rig Type: ATV 850

Total Depth: 57.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			11-20-54-11	74	SOLW	Moist, stiff, light gray, sand-sized particles.	2SS-140H
25			50/0.2--	50/2	SOLW	Poor recovery, wet, soft, light gray, sand-sized particles in a paste-like matrix.	2SS-140H
30			50/0.4--	50/4	SOLW	Moist, stiff, light gray, sand-and silt-sized particles.	2SS-140H
35			7-10-31-15	41	SOLW	Moist, stiff, light gray and dark gray interlayered, sand-and silt-sized particles.	2SS-140H
40							

## BORING LOG

Page 3 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-13

Date: 11/20/2006 - 11/21/2006

Weather: Rain/Snow 30 deg F

Northing: 1118719.423

Easting: 905026.6963

Elevation: 434.26

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz

Rig Type: ATV 850

Total Depth: 57.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40		OL-0301-14	5-7-9-12	16	CL	Moist, stiff, moderate brown, silt and clay, some fine sand. At 40 feet inferred contact point between SOLW and clay.	2SS-140H
			5-7-8-4	15	CL	Top 5 inches: moist, stiff, moderate brown, silt and clay, some fine sand (CL). Bottom 1 inch: wet, medium dense, fine sand, some silt, moderate brown (SM). At 43.8 feet observed contact between clay and silt.	2SS-140H
45			6-7-7-6			Shelby tube recovery: 0 inches. No recovery, try spoon.	2SS-140H
			9-11-12-12	23	SM	Wet, medium dense, moderate yellowish brown, fine sand and silt, little clay.	2SS-140H
						Shelby tube recovery: 0 inches. No recovery.	Shelby
50			5-6-7-7	13	SM	Wet, medium dense, moderate yellowish brown, fine sand and silt, little clay.	2SS-140H
55			50/0.4--	50/0.4	SM	Top 9 inches: wet, medium dense, moderate yellowish brown, fine sand and silt, little clay. Bottom 1 inch: dense gravel and sand.	2SS-140H
57.0							

## BORING LOG

Page 1 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-13

Install Date: 11/21/2006

Weather: Rain/Snow 30 deg F

Northing: 1118719.423  
Easting: 905026.6963  
Ground Elevation: 434.26

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: Y. Veliz  
Rig Type: ATV

Total Depth: 31 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

Page 2 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-13

Install Date: 11/21/2006

Weather: Rain/Snow 30 deg F

Northing: 1118719.423  
Easting: 905026.6963  
Ground Elevation: 434.26

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: Y. Veliz  
Rig Type: ATV

Total Depth: 31 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
31.0								

Boring advanced to 57 feet and backfilled with bentonite to 31 feet.  
Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19779) installed to 30 ft.  
#1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-13 for Lithology.

## BORING LOG

Page 1 of 3



Site: Settling Basins 9-15

Boring No: SB915-PZ13-14

Date: 11/22/2006 - 11/28/2006

Weather: Sunny 45 deg F

Northing: 1118977.287

Easting: 906192.4479

Elevation: 443.67

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz

Rig Type: ATV 850

Total Depth: 57.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			10-8-11-13	19	GW	Wet, medium dense, moderate yellowish brown, fine to medium gravel, little fine sand and silt.	2SS-140H
5			12-50/0.4-	50/4	SOLW	Moist, very dense, medium gray, sand-sized particles. At 5 feet inferred contact between gravel and SOLW.	2SS-140H
10			15-37-11-12	48	SOLW	Wet, dense, medium gray to tan, gravel and sand-sized particles in a paste-like matrix.	2SS-140H
15			2-2-2-6	4	SOLW	Top 22 inches: moist to wet, soft, medium dark gray and white interlayered silt-sized particles (SOLW). Bottom 2 inches: wet, loose, moderate brown, medium gravel and silt (GP). At 16.8 feet observed contact between SOLW and gravel.	2SS-140H
20							



## BORING LOG

Page 2 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-14

Date: 11/22/2006 - 11/28/2006

Weather: Sunny 45 deg F

Northing: 1118977.287

Easting: 906192.4479

Elevation: 443.67

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz

Rig Type: ATV 850

Total Depth: 57.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			1-3-3-2	6	SOLW	Moist, soft, dark gray and white interlayered, silt-sized particles, occasional thin layers of dense, sand-sized particles. At 20 feet inferred contact between gravel and SOLW.	2SS-140H
		OL-0296-17				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
25			2-3-2-11	5	SOLW	Moist to wet, soft, dark gray and white interlayered, silt-sized particles.	2SS-140H
30			4-1-1-2	2	SOLW	Wet, soft, medium gray, silt-sized particles, in paste-like particles.	2SS-140H
35			4-2-1-1	3	SOLW	Wet, soft, medium gray, sand-and silt-sized particles in paste-like matrix.	2SS-140H
40							

## BORING LOG

Page 3 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-14

Date: 11/22/2006 - 11/28/2006

Weather: Sunny 45 deg F

Northing: 1118977.287

Easting: 906192.4479

Elevation: 443.67

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz

Rig Type: ATV 850

Total Depth: 57.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			1-1-3-3	4	SOLW	Top 14 inches: wet, soft, medium gray and white interlayered, silt-sized particles. Bottom 6 inches: moist, dense, medium gray, sand-and silt-sized particles.	2SS-140H
45			2-3-2-3	5	SOLW	Top 10 inches: wet, dark gray and white interlayered, silt-sized particles (SOLW). Bottom 2 inches: moist to wet, soft, olive gray, silt and some clay, little fine sand, some vegetative roots (OL). At 46.8 feet, inferred contact between SOLW and silt/clay.	2SS-140H
		OL-0296-18				Shelby tube recovery: 18 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
50		OL-0302-04	3-5-4-3	9	SM	Moist, firm, moderate yellowish brown, silt and fine sand, little clay.	2SS-140H
55			10-35-36-37	71	GM	Top 8 inches: moist, firm, moderate yellowish brown, fine sand, some silt, little clay. Bottom 12 inches: moist, dense, greenish gray, medium sand and gravel, some fine sand and silt, faint greenish-red mottling.	2SS-140H
57.0							

Boring advanced to 57 feet and backfilled with bentonite to 31 feet. Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19780) installed to 30 ft. #1 sand installed for filter pack.

## BORING LOG

Page 1 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-14

Install Date: 11/28/2006

Weather: Sunny 45 deg F

Northing: 1118977.287  
Easting: 906192.4479  
Ground Elevation: 443.67

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: Y. Veliz  
Rig Type: ATV

Total Depth: 31 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

Page 2 of 2

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-14

Install Date: 11/28/2006

Weather: Sunny 45 deg F

Northing: 1118977.287  
Easting: 906192.4479  
Ground Elevation: 443.67

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: Y. Veliz  
Rig Type: ATV

Total Depth: 31 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
31.0								

Boring advanced to 57 feet and backfilled with bentonite to 31 feet.  
Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19780) installed to 30 ft.  
#1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-14 for Lithology.

## BORING LOG

Page 1 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-15

Date: 11/28/2006 - 11/30/2006

Weather: Cloudy 55 deg F

Northing: 1119270.225

Easting: 907315.4926

Elevation: 446.56

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz

Rig Type: ATV 850

Total Depth: 61.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			9-8-17-9	25	GP	Damp, dense, moderate brown, fine to medium sand, some coarse gravel, little silt, vegetative roots.	2SS-140H
5			25-50/0.4-	50/.4	SOLW	Moist, soft, white and moderate brown silt-sized particles mixed with silt and fine to medium sand (SOLW/SM).	2SS-140H
10			50/0.4--	50/.4	GP	Wet, dense, moderate brown, coarse sand and gravel, some silt.	2SS-140H
15			4-3-8-12	11	SOLW	Moist, medium dense, medium gray, sand-sized particles, some silt-sized particles. At 15 feet inferred contact between sand gravel and SOLW.	2SS-140H
20							

## BORING LOG

Page 2 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-15

Date: 11/28/2006 - 11/30/2006

Weather: Cloudy 55 deg F

Northing: 1119270.225

Easting: 907315.4926

Elevation: 446.56

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz

Rig Type: ATV 850

Total Depth: 61.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			4-9-15-8	24	SOLW	Moist, medium dense, light gray, sand-sized particles, wood pieces.	2SS-140H
25			5-3-2-1	5	SOLW	Moist, soft, white and dark gray interlayered, silt-sized particles, some sand-sized particle layers, wood pieces.	2SS-140H
		OL-0296-19				Shelby tube recovery: 6 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30			2-1-8-7	9	SOLW	Moist, soft to firm, white and dark gray interlayered, silt-sized particles, some hard sand sized particle layers.	2SS-140H
35			2-8-1-11	9	SOLW	Moist, soft, dark gray, silt-sized particles, interlayered with white silt-sized particles.	2SS-140H
40							

## BORING LOG

Page 3 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-15

Date: 11/28/2006 - 11/30/2006

Weather: Cloudy 55 deg F

Northing: 1119270.225

Easting: 907315.4926

Elevation: 446.56

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz

Rig Type: ATV 850

Total Depth: 61.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			3-9-9-3	18	SOLW	Moist, soft to firm, dark gray silt-sized particles, some sand-sized particle layers.	2SS-140H
45			2-1-2-1	3	SOLW	Moist to wet, soft, white and dark gray interlayered silt-sized particles.	2SS-140H
50			WH-3-4-6	7	SOLW	Moist to wet, soft, white and dark gray interlayered silt-sized particles.	2SS-140H
55		OL-0302-01	2-2-3-23	5	ML	Moist, stiff, moderate brown, silt, some fine sand, little clay, vegetative roots. At 55 feet inferred contact between SOLW and silt/sand.	2SS-140H
60							

## BORING LOG

Page 4 of 4

**Honeywell**

Site: Settling Basins 9-15

Boring No: SB915-PZ13-15

Date: 11/28/2006 - 11/30/2006

Weather: Cloudy 55 deg F

Northing: 1119270.225

Easting: 907315.4926

Elevation: 446.56

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. Veliz

Rig Type: ATV 850

Total Depth: 61.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			37-50/0.4-	50/.4	SM	Moist to wet, dense, moderate brown, fine sand, some silt, some rock pieces.	2SS-140H
61.0							

Boring advanced to 61 feet and backfilled with bentonite to 31 feet. Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19770) installed to 30 ft. #1 sand installed for filter pack.



**BORING LOG**

Page 1 of 2

**Honeywell****Site: Settling Basins 9-15****Boring/Well: SB915-PZ13-15****Install Date: 11/30/2006****Weather: Cloudy 55 deg F****Northing: 1119270.225**  
**Easting: 907315.4926**  
**Ground Elevation: 446.56****Drilling Company: Parratt Wolff**  
**Driller: B. Rice**  
**Logging Company: O'Brien and Gere**  
**Geologist: Y. Veliz**                      **Rig Type: ATV****Total Depth: 31 Ft**  
**Depth Units: Ft**

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

Page 2 of 2

# Honeywell

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-15

Install Date: 11/30/2006

Weather: Cloudy 55 deg F

Northing: 1119270.225  
Easting: 907315.4926  
Ground Elevation: 446.56

Drilling Company: Parratt Wolff  
Driller: B. Rice  
Logging Company: O'Brien and Gere  
Geologist: Y. Veliz  
Rig Type: ATV

Total Depth: 31 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
31.0								

Boring advanced to 61 feet and backfilled with bentonite to 31 feet.  
Vibrating wire piezometer (Geokon Model 4500S Serial No. 06-19770) installed to 30 ft.  
#1 sand installed for filter pack. Refer to Boring Log SB915-PZ13-15 for Lithology.

## BORING LOG

Page 1 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-16

Date: 11/21/2006

Weather: Partly Cloudy 35 deg F

Northing: 1120028.189

Easting: 908313.8509

Elevation: 441.08

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			5-15-15-14	30	GM	Top 3 inches: moist, soft, dark yellowish brown (10YR 4/2) silt and organics (soil). Bottom 7 inches: dry, dense, gravel and silt.	2SS-140H
5			5-6-12-12	18	GM	Moist, medium dense, dark yellowish brown (10YR 4/2), coarse gravel with silt, slightly cohesive.	2SS-140H
10			15-50/0.4-	50/4	SM	Dry to moist (though outside of spoon was wet), dense, light gray (N7) to medium gray (N5) sand and silt, sand particles mostly black (N1), looks like SOLW, but brittle instead of pasty and cohesive.	2SS-140H
15			1-3-12-6	15	GM	Wet, medium dense, light gray (N7) medium to fine gravel, sand, silt, grayish green (5G 5/2), moderate brown (5YR 3/4) and moderate red (5R 4/6) mottling seen, looks like waste mixed with fill.	2SS-140H
20							

## BORING LOG

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Site: Settling Basins 9-15

Boring No: SB915-PZ13-16

Date: 11/21/2006

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Easting: 908313.8509

Elevation: 441.08

Drilling Company: Parratt Wolff

Driller: Bill Rice

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Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			38-50/0.1-	50/1	SOLW	Dry, dense, yellowish gray (5Y 8/1) to yellowish pinkish gray (5YR 8/1), medium to fine sand, some silt, cemented.	2SS-140H
25			4-3-4-12	7	SOLW	Top 6 inches: dry, dense, yellowish gray (5Y 8/1) to yellowish pinkish gray (5YR 8/1), medium to fine sand, some silt, cemented. Middle 12 inches: moist, soft, white (N9) to medium dark gray (N4) silt-size particles in paste-like matrix cohesive. Bottom 6 inches: similar to top 6 inches with some of middle 12 inches mixed in, cemented.	2SS-140H
30			1-3-2-2	5	SOLW	Top 6 inches: wet, loose, yellowish gray (5Y 8/1) sand and silt. Bottom 8 inches: moist, soft, white (N9) to dark gray (N3) silt-sized particles in paste-like matrix, cm scale layering, some cemented layers present.	2SS-140H
35		OL-0296-20				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
40							

## BORING LOG

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Site: Settling Basins 9-15

Boring No: SB915-PZ13-16

Date: 11/21/2006

Weather: Partly Cloudy 35 deg F

Northing: 1120028.189

Easting: 908313.8509

Elevation: 441.08

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			1-2-2-2	4	SOLW	Top 2 inches: wet, dense, yellowish gray (5Y 8/1) sand and silt particles cemented. Bottom 13 in: moist, soft, white (N9) to dark gray (N3) silt-sized particles in paste-like matrix, cm scale layering, some cemented layers.	2SS-140H
45			2-2-2-3	4	SOLW	Moist, soft white (N9) to dark gray (N3) silt-sized particles in paste-like matrix, cm scale layering, frequent cemented layers.	2SS-140H
50			3-3-2-2	5	SOLW	Top 3 inches: wet, dense, grayish orange pink (5YR 7/2) coarse to medium sand cemented layers. Bottom 9 inches: moist, dense, white (N9) to medium dark gray (N4) silt-sized particles in a paste-like matrix, layered.	2SS-140H
55		OL-0301-15	4-8-7-9	15	OH	Moist, medium dense, dark yellowish brown (10YR 4/2) silt with little clay, patches of light brown, moderate red and moderate olive brown, homogenous, cohesive.	2SS-140H
60							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-PZ13-16

Date: 11/21/2006

Weather: Partly Cloudy 35 deg F

Northing: 1120028.189

Easting: 908313.8509

Elevation: 441.08

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: J. Gallo

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			4-7-10-10	17	OH	Moist, wet, medium dense, dark yellowish brown, silt with clay, patches of black, increasing fine sand content towards bottom, homogenous, cohesive.	2SS-140H
62.0							

Boring advanced to 62 feet and backfilled with bentonite to 31 feet. #1 sand installed for sand pack. Screen Material 2-in. Diameter 10-slot PVC. Riser Material 2-in. Diameter PVC. Stickup 1.77 ft. Surface Finish Protective Steel Casing to 2.75 ft.

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-16

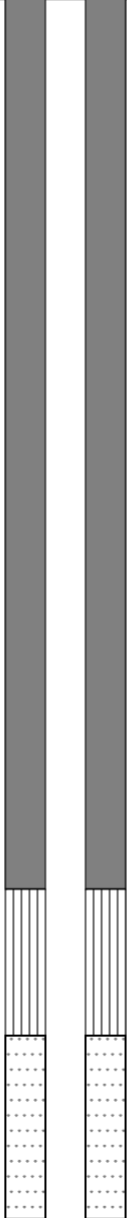
Install Date: 11/21/2006

Weather: Partly Cloudy 35 deg F

Northing: 1120028.189  
Easting: 908313.8509  
Ground Elevation: 441.08

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 31 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
0								
5								
10								
15								
20								

## BORING LOG

Page 2 of 2

**Honeywell**

Site: Settling Basins 9-15

Boring/Well: SB915-PZ13-16

Install Date: 11/21/2006

Weather: Partly Cloudy 35 deg F

Northing: 1120028.189  
Easting: 908313.8509  
Ground Elevation: 441.08

Drilling Company: Parratt Wolff  
Driller: R. Navatka  
Logging Company: O'Brien and Gere  
Geologist: J. Gallo  
Rig Type: ATV

Total Depth: 31 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	USCS Code	Soil Description	Schematic	Sample Method	
20								
25								
30								
31.0								

Boring advanced to 62 feet and backfilled with bentonite to 31 feet.  
#1 sand installed for sand pack. Refer to Boring Log SB915-PZ13-16 for Lithology.  
Screen Material 2-in. Diameter 10-slot PVC. Riser Material 2-in. Diameter PVC. Stickup 1.77 ft.  
Surface Finish Protective Steel Casing to 2.75 ft.



## BORING LOG

Page 1 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-01

Date: 10/16/2006 - 10/19/2006

Weather: Sunny 60 deg F

Northing: 1120836.013

Easting: 908749.825

Elevation: 432.19

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 120.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			2-1-1-1	2	SOLW	Top 2-inches moist, soft, moderate brown silt, some fine sand, vegetative roots. 8-inches moist, soft, white, silt-sized particles. At 0.16 feet silt contacts SOLW.	2SS-140H
5			3-5-2-1	7	SOLW	Top 8-inches wet, soft, light gray, silt-sized particles. Bottom 2-inches wet, medium stiff, light gray sand-sized particles.	2SS-140H
		OL-0297-01				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10		OL-0297-02				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
15			7-4-7-8	11	SOLW	Saturated, stiff, light gray, silt- and sand-sized particles. Some hard sand-sized particle layers.	2SS-140H
		OL-0297-03			SOLW	Shelby tube recovery: 12 inches. See Geotechnical Report for Shelby Tube Analysis. Additional split spoon advanced from 19 to 20 ft. Saturated, stiff, light gray sand-sized particles. Spoon refusal, casing to 21 ft bgs.	Shelby
20							

## BORING LOG

Page 2 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-01

Date: 10/16/2006 - 10/19/2006

Weather: Sunny 60 deg F

Northing: 1120836.013

Easting: 908749.825

Elevation: 432.19

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 120.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20							
		OL-0297-04				Shelby tube recovery: 20 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			9-7-12-13	19	SOLW	Wet, stiff, light gray, silt-sized particles, some layers of sand-sized particles, stiff.	2SS-140H
25							
		OL-0297-05				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30							
			12-7-8-25	15	SOLW	4 inches is saturated, stiff, light gray, sand-and gravel-sized particles, 8 inches is wet to moist, stiff, moderate brown, medium sand, some gravel, little silt. At 32.5 feet observed contact between SOLW and sand, gravel.	2SS-140H
35			26-21-24-23	45	GW	Moist, stiff, moderate brown, silt, some fine sand, little gravel, mud rotary system set up. At 35 feet inferred contact between sand, gravel and silt, sand.	2SS-140H
			15-15-50/0.4	65/9	SM	Poor recovery. Moist, stiff, medium brown silt, some fine sand, little gravel.	2SS-140H
40							

## BORING LOG

Page 3 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-01

Date: 10/16/2006 - 10/19/2006

Weather: Sunny 60 deg F

Northing: 1120836.013

Easting: 908749.825

Elevation: 432.19

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 120.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40							
			37-37-50/4-	87/9	SM	Saturated, medium dense, moderate yellowish brown, fine sand, some silt. Recovery not noted.	2SS-140H
45							
			60/0.5--	60/5	SP	Saturated, dense, dark gray, loose sand and gravel, little silt. At 48 feet contact between fine sand and coarse sand, gravel.	2SS-140H
50							
			75	75/5	GP	Saturated, dense, medium gray, fine and medium gravel, some coarse sand, little coarse gravel and silt.	2SS-140H
55							
			45-42-48-50/2	90	GP	Wet, dense, medium gray and black, medium sand and gravel (angular), some silt, little coarse gravel. Black soil possibly organic matter. At 56 feet inferred contact between coarse sand, gravel and sand, gravel.	2SS-140H
60							

## BORING LOG

Page 4 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-01

Date: 10/16/2006 - 10/19/2006

Weather: Sunny 60 deg F

Northing: 1120836.013

Easting: 908749.825

Elevation: 432.19

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 120.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60							
			20-50/0.4-	50/4	SP	Moist, dense, medium gray, fine to medium sand, some fine gravel, little silt. At 66 feet inferred contact between sand, gravel and mottled sand, silt.	2SS-140H
65							
			12-12-10-9	22	SP	Wet, dense, pale brown, fine sand and silt, some medium-coarse sand, little medium gravel (subangular-subrounded) distinct reddish and greenish mottling.	2SS-140H
70							
			20-10-9-10	19	SP	Wet, dense, pale brown, fine sand and silt, some medium-coarse sand, little medium gravel (subangular-subrounded) distinct reddish and greenish mottling.	2SS-140H
75							
			9-8-60/0.4-	68/9	SP	Top 4-inches: wet, dense, pale brown, fine sand and silt, some medium-coarse sand, little medium gravel (subangular-subrounded) distinct reddish and greenish mottling. Bottom 7-inches: wet, dense, pale brown, fine sand and silt, some medium gravel distinct reddish and greenish fine mottling.	2SS-140H
80							

# Honeywell

Site: Settling Basins 9-15  
Boring No: SB915-SB13-01  
Date: 10/16/2006 - 10/19/2006  
Weather: Sunny 60 deg F

Drilling Company: Parratt Wolff  
Driller: Joe Percy  
Logging Company: O'Brien and Gere  
Geologist: YURI VELIZ                      Rig Type: ATV 850

Total Depth: 120.0 Ft  
Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
80							
			70	70/0.5	SP	Moist to wet, dense, pale brown, silt and fine sand, some fine gravel, faint reddish and greenish fine mottling.	2SS-140H
85							
			21-60-60-90	120	SP	Wet, dense, pale brown fine sand and silt, some medium gravel, distinct reddish and greenish fine mottling.	2SS-140H
90							
			19-18-20-28	38	SP	Wet, dense, pale brown fine sand and silt, some medium gravel, distinct reddish and greenish fine mottling.	2SS-140H
95							
			21-22-21-27	43	SP	Wet, dense, pale brown, fine sand and silt and fine gravel (matrix supported gravel). Distinct reddish and greenish fine mottling (as matrix).	2SS-140H
100							

## BORING LOG

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# Honeywell

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Date: 10/16/2006 - 10/19/2006

Weather: Sunny 60 deg F

Northing: 1120836.013

Easting: 908749.825

Elevation: 432.19

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 120.0 Ft

Depth Units: Ft

Depth Ft	Reco	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
100							
			18-11-14-18	25	SP	Wet to saturated, dense, pale brown, fine sand and silt and fine to medium gravel (matrix supported gravel). Faint reddish and greenish fine mottling first 3-inches, then (last 10-inches), no mottling.	2SS-140H
105							
			14-17-20-20	37	SP	Top 8-inches: wet to saturated, dense, pale brown, fine sand and silt and fine to medium gravel (matrix supported gravel). Bottom 4-inches: saturated, dense, moderate brown, coarse sand and fine gravel, no mottling.	2SS-140H
110							
			18-20-50-	70	SP	Wet to saturated, dense, pale brown fine sand and silt, little fine gravel, distinct reddish and greenish fine mottling. .	2SS-140H
115							
		OL-0301-02	31-31-41-50/.4	72	SP	Moist, stiff to hard, dark reddish brown silt and fine sand, little fine gravel embedded in silt-sand matrix. At 118 feet inferred contact of mottled sand and reddish silt. End of boring at 120 ft bg. Hole backfilled with grout.	2SS-140H
120.0							

## BORING LOG

Page 1 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-02

Date: 10/27/2006 - 10/30/2006

Weather: Sunny 40 deg F

Northing: 1120909.276

Easting: 906882.569

Elevation: 427.49

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 67.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			WH-WH-WH-WH	0	SOLW	Moist, loose, light brown, silt-sized SOLW, silt with some vegetation.	2SS-140H
			WH-WH-WH-WH	0	SOLW	Moist, loose, light brown/tan, paste-like SOLW.	2SS-140H
5			WH-WH-WH-WH	0	SOLW	Moist, loose, light brown and white with few gray areas, paste-like SOLW.	2SS-140H
		OL-0297-06				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10		OL-0297-07				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
15			WR-WR-WR-WR	0	SOLW	Moist, loose, white with light gray intermixed, crumbly, silt-sized SOLW.	2SS-140H
20							

## BORING LOG

Page 2 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-02

Date: 10/27/2006 - 10/30/2006

Weather: Sunny 40 deg F

Northing: 1120909.276

Easting: 906882.569

Elevation: 427.49

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 67.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			WH-WH-WH-1	0	SOLW	Wet, loose, white and whitish gray, silt-sized and some fine sand-sized SOLW.	2SS-140H
25		OL-0297-08				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
					SOLW	Wet, loose, white and light gray, silt-sized and some fine sand sized SOLW. Note: No blow counts or N value recorded as spoon was advanced through a previously disturbed interval.	2SS-140H
30		OL-0297-09				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
35			WH-WH-WH-1	0	SOLW	Moist, loose, alternating layers of white and light gray, silt and fine sand-sized SOLW.	2SS-140H
40							



## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-02

Date: 10/27/2006 - 10/30/2006

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Easting: 906882.569

Elevation: 427.49

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 67.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			2-2-2-2	4	SOLW	Moist, medium stiff, alternating layers of gray and dark gray, silt and some medium to fine sand-sized particles of SOLW.	2SS-140H
		OL-0297-10			SOLW	Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
45		OL-0297-11				Shelby tube recovery: 11 inches -had to be driven with hammer. See Geotechnical Report for Shelby Tube Analysis.	Shelby
50			WH-1-1-0	2	SOLW	Moist, soft, light gray and white silt-sized particles in paste-like matrix, layered.	2SS-140H
55			15-14-11-11	25	GM	Moist, dense, dark yellowish brown (10YR 4/2) medium-coarse gravel with silt some sand. Bottom 2 inches black gravel and silt (cinders?).	2SS-140H
60							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-02

Date: 10/27/2006 - 10/30/2006

Weather: Sunny 40 deg F

Northing: 1120909.276

Easting: 906882.569

Elevation: 427.49

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 67.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			9-21-22-25	43	GM	Moist-wet, dense, dark gray and medium yellowish brown gravel, with coarse-medium sand and silt. Pale green and medium red mottling seen in patches.	2SS-140H
65		OL-0301-03	15-21-36-40	57	GM	Moist-wet, dense, dark gray and medium yellowish brown gravel, with coarse-medium sand and silt. Pale green and medium red mottling seen in patches. B.O.B. at 67 feet.	2SS-140H
67.0							

## BORING LOG

Page 1 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-03

Date: 10/24/2006 - 10/26/2006

Weather: Cloudy 40 deg F

Northing: 1120534.044

Easting: 907074.41

Elevation: 425.10

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 72.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			WH-WH-WH-WH	0	SOLW	Moist, loose, light gray, silt-sized SOLW (paste-like).	2SS-140H
		OL-0297-12				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
5		OL-0297-13				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10			WH-WH-WH-WH	0	SOLW	Moist, loose, layers of gray, light gray and tan, silt-and fine sand-sized SOLW.	2SS-140H
15			WH-WH-WH-WH	0	SOLW	Moist to wet, loose, white with lenses of gray, paste-like SOLW.	2SS-140H
20							

## BORING LOG

Page 2 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-03

Date: 10/24/2006 - 10/26/2006

Weather: Cloudy 40 deg F

Northing: 1120534.044

Easting: 907074.41

Elevation: 425.10

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 72.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			WH-WH-WH-WH	0	SOLW	Wet, loose, white with tan areas, paste-like SOLW.	2SS-140H
25			WH-WH-WH-WH	0	SOLW	Wet, loose, gray with white areas, paste-like SOLW.	2SS-140H
						Wet, loose, gray and light gray, pasty SOLW. Drove spoon after tube failed. Note: No blow counts or N value recorded as spoon was advanced through a previously disturbed interval.	2SS-140H
30		OL-0297-14				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0297-15				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
35			WR-WR-WR-WR	0	SOLW	Wet, very loose, alternating layers of white and gray, paste-like SOLW.	2SS-140H
40							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-03

Date: 10/24/2006 - 10/26/2006

Weather: Cloudy 40 deg F

Northing: 1120534.044

Easting: 907074.41

Elevation: 425.10

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 72.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			WH-WH-WH-1	0	SOLW	Wet, loose gray with white intermixed silt and fine sand-sized particles of SOLW.	2SS-140H
45			WH-WH-WH-WH	0	SOLW	Wet to saturated, loose, white, paste-like SOLW.	2SS-140H
50						Shelby tube no recovery.	Shelby
					SOLW	Wet, soft, medium gray, silt-and sand-sized particles, non plastic. Note: No blow counts or N value recorded as spoon was advanced through a previously disturbed interval.	2SS-140H
						Shelby tube recovery: 0.7 foot. See Geotechnical Report for Shelby Tube Analysis.	Shelby
55		OL-0297-16			SOLW	Moist, very soft, light gray and medium gray, cemented silt-and sand-sized particles, with seams of layering, non plastic. Note: No blow counts or N value recorded as spoon was advanced through a previously disturbed interval.	2SS-140H
						Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
60		OL-0297-17					

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-03

Date: 10/24/2006 - 10/26/2006

Weather: Cloudy 40 deg F

Northing: 1120534.044

Easting: 907074.41

Elevation: 425.10

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 72.0 Ft

Depth Units: Ft

Depth Ft	Reco	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			50/0.4--	50/.4	GM	Moist, dense, dark gray/black, sand and gravel.	2SS-140H
65			50/.15--	50/.15	GM	Wet, dense, dark gray/black gravel.	2SS-140H
70			7-11-12-11	23	GM	Wet, medium dense, tan gravel.	2SS-140H
72.0							

## BORING LOG

Page 1 of 2

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-04

Date: 10/19/2006 - 10/20/2006

Weather: Cloudy 65 deg F

Northing: 1120207.662

Easting: 907534.237

Elevation: 437.682

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 21.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			4-4-9-10	13	FILL	Moist, moderately dense dark-yellowish brown (10YR4/2) coarse to medium gravel, medium-fine sand, silt. Some cinders (Fill).	2SS-140H
			9-5-11-13	16	FILL	Moist-dry, dense, grayish red (10R4/2) silt, with some sand coarse to fine gravel.	2SS-140H
5			11-12-12-12	24	FILL	Little recovery -rock blocked spoon, 3 inches of moist-dry, dense, grayish red (10R4/2) silt, with some sand coarse to fine gravel.	2SS-140H
			9-8-7-9	15	FILL	Little recovery -2 inches of moist-dry, dense, grayish red (10R4/2) silt, with some sand coarse to fine gravel.	2SS-140H
			9-14-10-6	24	FILL	Almost no recovery, less than 1 inch of moist-dry, dense, grayish red (10R4/2) silt, with some sand coarse to fine gravel.	2SS-140H
10			5-4-1-1	5	FILL	Moist, soft-medium dense, dark yellowish brown (10 YR4/2) coarse to medium sand with coarse to medium to fine gravel and silt, layer of grass at bottom, end of fill.	2SS-140H
			2-2-2-1	4	FILL	Top 1 inch -moist, soft-medium dense, dark yellowish brown (10 YR4/2) coarse to medium sand with coarse to medium to fine gravel and silt, layer of grass at bottom, end of fill. Last 21 inches are moist, soft, cohesive, very pale orange (10YR 8/2), yellowish gray (5Y7/2), and 3 shades of gray minimum from light gray (N7) to medium dark gray (N4), mm-cm scale banding. At 12 feet -1 inch fill contact with SOLW.	2SS-140H
15						Two Shelby tube recovery attempts failed. Shelby tubes not saved.	Shelby
						Shelby tube recovery attempt failed. Shelby tube not saved.	Shelby
						Shelby tube recovery attempt failed. Shelby tube not saved. Abandoned boring, moved 5 feet.	Shelby
20							

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring No: SB915-SB13-04

Date: 10/19/2006 - 10/20/2006

Weather: Cloudy 65 deg F

Northing: 1120207.662

Easting: 907534.237

Elevation: 437.682

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 21.0 Ft

Depth Units: Ft

Depth Ft	Reco v	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20 21.0						Shelby tube recovery attempt failed. Shelby tube not saved. Abandoned boring, moved 5 feet.	Shelby



## BORING LOG

Page 1 of 5

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-04A

Date: 10/20/2006 - 10/24/2006

Weather: Overcast 45 deg F

Northing: 1120207.662

Easting: 907534.237

Elevation: 437.68

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 92.0 Ft

Depth Units: Ft

Depth Ft	Reco v	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0						Note: See SB915-SB13-04 log for 0-10 ft lithology.	
5							
10			4-4-1-2	5	FILL	Top 8 inches moist, soft, medium dense, dark yellowish brown (10YR4/2), coarse to medium sand with silt, some medium to fine gravel. Bottom 6 inches are moist, soft, medium dark gray (N4) to very light grey (N8), silt-sized particles in paste-like matrix. At 11.5 feet fill contact with SOLW.	2SS-140H
		OL-0297-18				Shelby tube recovery: 23 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
15					SOLW	Moist, wet, white (N9) and medium gray SOLW (silt-sized particles in plaster-like matrix), mm/cm scale layers. Note: No blow counts or N value recorded as spoon was advanced through a previously disturbed interval.	2SS-140H
		OL-0297-19				Shelby tube recovery: 22 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
20							

## BORING LOG

Page 2 of 5

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-04A

Date: 10/20/2006 - 10/24/2006

Weather: Overcast 45 deg F

Northing: 1120207.662

Easting: 907534.237

Elevation: 437.68

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 92.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			1-0-1-0	1	SOLW	Moist, soft, layers (cm scale) of yellowish gray (5Y 8/1) medium gray (N5) and light gray (N7) silt-sized particles in paste-like matrix.	2SS-140H
25			WH-WH-WH-WH	0	SOLW	Moist, soft, layers (cm scale) of yellowish gray (5Y 8/1) medium gray (N5) and light gray (N7) silt-sized particles in paste-like matrix.	2SS-140H
30			WH-2-1-1	3	SOLW	Moist, soft, layers (cm scale) of yellowish gray (5Y 8/1) medium gray (N5) and light gray (N7) silt-sized particles in paste-like matrix. 2 ~ 1 inch cemented layers present.	2SS-140H
35			1-0-1-0	1	SOLW	Moist, soft, layers (cm scale) of yellowish gray (5Y 8/1) medium gray (N5) and light gray (N7) silt-sized particles in paste-like matrix. 1 cemented layer, white (N9) present along with previously described color in cm-scale layers.	2SS-140H
		OL-0297-20				Shelby tube recovery: >24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
40							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-04A

Date: 10/20/2006 - 10/24/2006

Weather: Overcast 45 deg F

Northing: 1120207.662

Easting: 907534.237

Elevation: 437.68

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 92.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40						Shelby tube recovery: 6 inches. Shelby not sent for analysis.	Shelby
			2-22-5-4	27	SOLW	Moist, soft, medium dense. Density varies inch to inch, medium dark gray (N5) to white (N9) silt-sized particles in paste-like matrix. 1-inch layer of coarse to medium sand-sized particles.	2SS-140H
45		OL-0298-01				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
50			1-2-1-2	3	SOLW	Moist, soft to medium dense (cm scale cemented layers), medium dark gray (N4), medium gray (N5) to white (N7) silt-sized particles in paste-like matrix. 1-inch layer of sand-sized particles (mm-cm scale layering).	2SS-140H
55			1-2-3-1	5	SOLW	Moist, soft, medium dark gray (N4) to white (N9) silt-sized particles in paste-like matrix (mm-cm scale layering).	2SS-140H
60							

## BORING LOG

Page 4 of 5

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-04A

Date: 10/20/2006 - 10/24/2006

Weather: Overcast 45 deg F

Northing: 1120207.662

Easting: 907534.237

Elevation: 437.68

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 92.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			WH-WH-WH-3	0	SOLW	Moist, soft, medium dark gray (N4) to white (N9) silt-sized particles in paste-like matrix (mm-cm scale layering). 1-inch and 2-inch layer of sand-sized particles, dense, some layers more dense.	2SS-140H
65			9-9-11-8	20	SOLW	Moist, medium dense, medium dark gray (N4), medium gray (N5) silt-sized particles in paste-like matrix, 1-inch sized cemented layers present; 1-inch sized layers with sand-sized particles present.	2SS-140H
						Moist, medium dense, medium dark gray (N4), medium gray (N5), silt-sized particles in paste-like matrix, 1-inch sized cemented layers present; 1-inch sized layers with sand-sized particles present. Top 6 inches very hard cemented layer. Note: Blow counts and N value not recorded as spoon was advanced through a previously disturbed interval.	2SS-140H
70		OL-0298-02				Shelby tube recovery: 20 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0298-03				Shelby tube recovery: >24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
75			WH-WH-2-1	2	SOLW	Moist, soft, dark gray (N3) to medium dark gray (N4) to white (N9) silt-sized particles in paste-like matrix.	2SS-140H
80							

## BORING LOG

Page 5 of 5

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-04A

Date: 10/20/2006 - 10/24/2006

Weather: Overcast 45 deg F

Northing: 1120207.662

Easting: 907534.237

Elevation: 437.68

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 92.0 Ft

Depth Units: Ft

Depth Ft	Reco	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
80			WR-WR-7-7	7	SOLW	Top 19 inches wet, soft to very soft, medium dark gray (N4) to white (N9) silt-sized particle in paste-like matrix. Bottom 3 inches wet, medium dense, pale yellowish brown (10YR 6/2) coarse-medium-fine gravel with coarse-medium sand, some silt. At 81.5 feet contact between SOLW and gravel.	2SS-140H
85			7-13-13-16	26	GM	Moist-wet, dense, pale yellowish brown (10YR 6/2) coarse-medium-fine gravel with coarse-medium sand, some silt, dark yellowish orange (10YR 6/6), moderate red (5R 4/6), and pale green (5G 7/2) mottling (or staining?) of silt and fines.	2SS-140H
90			13-20-20-29	40	GM	Moist-wet, dense, pale yellowish brown (10YR 6/2) medium-fine gravel with coarse-medium sand, some silt, dark yellowish orange (10YR 6/6), moderate red (5R 4/6), and pale green (5G 7/2) mottling (or staining?) of silt and fines. Band of pale reddish brown (10R 5/4) coloring 2 inches thick at 91 feet.	2SS-140H
92.0							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-05

Date: 10/17/2006 - 10/19/2006

Weather: Rain 50 deg F

Northing: 1120155.757

Easting: 907443.59

Elevation: 436.51

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 92.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			6-5-8-8	13	FILL	Moist to wet, loose, dark yellowish brown (10 YR4/2), coarse-medium gravel and sand/silt. Recovery not noted.	2SS-140H
			5-6-17-17	23	FILL	Moist, dense, dark, yellowish brown (10 YR4/2) gravel and sand/silt. Recovery not noted.	2SS-140H
5			7-8-10-9	18	FILL	Moist, dense dark yellow brown (10 YR4/2) silt and sand with coarse-medium gravel. Recovery not noted.	2SS-140H
			7-7-6-10	13	FILL	Moist, dense, dark yellowish brown (10 YR4/2) silt and sand, some gravel (less than above). Recovery not noted.	2SS-140H
			9-9-8-5	17	FILL	Moist, dense, dark yellowish brown (10 YR4/2) silt and sand, more gravel -wood pieces. Recovery not noted.	2SS-140H
10			4-3-2-1	5	FILL	Top 12 inches: moist, dense, dark yellowish brown (10 YR4/2) silt and sand, more gravel-wood pieces. Bottom 2 inches: damp, loose, white (N1) to light gray SOLW, silt-sized particles in a paste. At 11.5 ft fill contacts SOLW. Recovery not noted.	2SS-140H
			1-1-1-1	2	SOLW	Wet, soft, loose white (N1) to medium light gray (N5) cm scale layers, silt-sized particles in paste-like matrix, cohesive. Recovery not noted.	2SS-140H
15		OL-0298-04				Shelby tube recovery: 21 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0298-05				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis..	Shelby
20							

## BORING LOG

Page 2 of 5

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-05

Date: 10/17/2006 - 10/19/2006

Weather: Rain 50 deg F

Northing: 1120155.757

Easting: 907443.59

Elevation: 436.51

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 92.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			WH-1-WH-WH	1	SOLW	Wet, cohesive, very soft-soft, 4-5 shades of gray from very light gray (N8) to medium dark gray (N4) in alternating bands (cm-scale), silt-sized particles, some fine gravel in portions of spoon.	2SS-140H
25			WH-WH-1-1	1	SOLW	Wet, cohesive, very soft-soft, 4-5 shades of gray from very light gray (N8) to medium dark gray (N4) in alternating bands (cm-scale), silt-sized particles, some fine gravel in portions of spoon. Recovery not noted.	2SS-140H
		OL-0298-06				Shelby tube recovery: 23.3 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30		OL-0298-07				Shelby tube recovery: 18.4 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
35			WH-WH-1-1	1	SOLW	Wet, soft, with few cemented layers, cohesive white (N9) to medium dark gray silt-sized particles paste-like, mm-cm scale layering. Recovery not noted.	2SS-140H
40							

## BORING LOG

Page 3 of 5

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-05

Date: 10/17/2006 - 10/19/2006

Weather: Rain 50 deg F

Northing: 1120155.757

Easting: 907443.59

Elevation: 436.51

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 92.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			2-2-2-2	4	SOLW	Top foot: wet, soft, with few cemented layers, cohesive white (N9) to medium dark gray silt-sized particles paste-like, mm-cm scale layering. Bottom foot: layer of coarse-medium sand and more cemented layers denser, otherwise same as above. Recovery not noted.	2SS-140H
45			WH-2-2-3	4	SOLW	Top 9 inches soft, wet, cohesive medium light gray (N6) silt-sized particles. Bottom 15 inches soft to dense, wet, semi-cohesive white (N6) to medium dark gray (N4) silt-sized particles with cm scale layer of coarse-medium sand few cemented layers present, cm scale. Recovery not noted.	2SS-140H
50		OL-0298-08				Shelby tube recovery: 8.3 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0298-09				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
55			1-0-1-2	1	SOLW	Wet, soft, cohesive, 4-5 shades of gray from (N3) to (N7), silt-sized particles in paste-like matrix, banding of different grays on mm-cm scale.	2SS-140H
60							



## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-05

Date: 10/17/2006 - 10/19/2006

Weather: Rain 50 deg F

Northing: 1120155.757

Easting: 907443.59

Elevation: 436.51

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 92.0 Ft

Depth Units: Ft

Depth Ft	RecoV	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			WH-WH-WH-3	0	SOLW	Wet, soft to moderate dense, white (N9) with very few layers of medium grays, silt-sized particles. Recovery not noted.	2SS-140H
65			3-1-3-8	4	SOLW	Wet, medium dense to dense, medium dark (N4) to dark gray (N3), silt-sized particles in a paste-like matrix, layering still present, moderate odor present, smells of alcohol or ammonia. Recovery not noted.	2SS-140H
70			5-4-5-8	9	SOLW	Wet to moist, top 8 inches is dense, medium dark gray, to dark gray (N3), silt-and fine sand-sized particles, consolidated. Bottom 16 inches same as 65-67 foot interval with light gray layers too, odor of ammonia present.	2SS-140H
						Shelby tube recovery: 4 inches. Sample archived, not sent for analysis.	Shelby
75		OL-0298-10				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
80							

## BORING LOG

Page 5 of 5

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-05

Date: 10/17/2006 - 10/19/2006

Weather: Rain 50 deg F

Northing: 1120155.757

Easting: 907443.59

Elevation: 436.51

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 92.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
80			46-50/.4--	50/.4	GM	Wet, very dense, moderate yellowish brown (10YR 5/6) to dark yellowish brown (10 YR 4/2) with dark reddish brown (10 YR 3/4) staining, coarse-medium gravel with coarse-medium sand, little silt. At approximately 83 feet inferred contact of gravel with FILL.	2SS-140H
85			37-34-30-32	64	GM	Moist, very dense, dark yellowish brown (10YR4/2) medium-fine gravel, coarse-medium sand, silt. Pale green (5G 7/2) and dark reddish brown (10 YR 3/4) mottling of silt.	2SS-140H
90			15-14-10-13	24	GM	Moist, dense, dark yellowish brown (10YR4/2) medium-fine gravel, coarse-medium sand, silt. Pale green (5G 7/2) and dark reddish brown (10 YR 3/4) mottling of silt. Missing recovery.	2SS-140H
92.0							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-06

Date: 10/19/2006 - 10/24/2006

Weather: Rain 50 deg F

Northing: 1119678.884

Easting: 907882.555

Elevation: 434.49

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: Y.V. , W.M.

Rig Type: ATV 850

Total Depth: 120.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			4-4-3-2	7	SOLW	Top 1 inch: top soil, moist, soft, moderate brown silt, some fine sand, vegetative matter. Bottom 8 inches: moist, soft, light gray to moderate gray, silt-sized particles, some hard layers of sand-sized particles.	2SS-140H
5							
		OL-0298-11				Shelby tube recovery: 18 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0298-12				Shelby tube recovery: 22 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10			7-7-9-4	16	SOLW	Wet, stiff, light gray, sand-sized particles, some silt-sized layers.	2SS-140H
			3-4-2-7	6	SOLW	Moist to wet, medium stiff and soft, dark gray interlayered silt-sized and sand-sized particles. Some hard sand-sized particle layers.	2SS-140H
15							
			6-10-3-10	13	SOLW	Wet, medium stiff, dark gray silt-sized particles, some hard layers of sand-sized particles.	2SS-140H
20							

## BORING LOG

Page 2 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-06

Date: 10/19/2006 - 10/24/2006

Weather: Rain 50 deg F

Northing: 1119678.884

Easting: 907882.555

Elevation: 434.49

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: Y.V. , W.M.

Rig Type: ATV 850

Total Depth: 120.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20							
			10-13-5-16	18	SOLW	Top 10 inches: moist, stiff, tan, sand-sized particles, few layers of silt-sized particles. Bottom 6 inches: moist, medium stiff, light to dark gray, silt-sized particles, some hard sand and silt-sized particle layers.	2SS-140H
25							
		OL-0298-13				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30		OL-0298-14				Shelby tube recovery: 15 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			2-2-8-10	10	SOLW	Moist to wet, soft and stiff, white and dark gray interlayered, silt-sized particles, some hard sand-sized particle layers.	2SS-140H
35							
			14-7-5-3	12	SOLW	Moist, stiff, light and dark gray interlayered sand-sized particles, odor noticed (sweet).	2SS-140H
40							

## BORING LOG

Page 3 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-06

Date: 10/19/2006 - 10/24/2006

Weather: Rain 50 deg F

Northing: 1119678.884

Easting: 907882.555

Elevation: 434.49

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: Y.V. , W.M.

Rig Type: ATV 850

Total Depth: 120.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40							
			7-10-7-8	17	SOLW	Top 6 inches: moist, stiff, light and dark gray interlayered sand-sized particles to 44 feet. Bottom 6 inches: moist, stiff, moderate brown, silt, some clay. At 44 feet Solvay Waste contact with silt.	2SS-140H
45							
		OL-0298-5				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0298-16				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
50							
			11-10-13-13	23	SP	Saturated medium dense, brown reddish brown lenses, silt and some coarse to medium to fine sand.	2SS-140H
55							
			50/0.3--	50/0.3	SP	Saturated, very dense, gray, angular coarse to medium to fine gravel. Recovery not noted.	2SS-140H
60							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-06

Date: 10/19/2006 - 10/24/2006

Weather: Rain 50 deg F

Northing: 1119678.884

Easting: 907882.555

Elevation: 434.49

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: Y.V. , W.M.

Rig Type: ATV 850

Total Depth: 120.0 Ft

Depth Units: Ft

Depth Ft	Reco	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60							
			30-22-30-50/4	52	GM	Wet, very dense, dark gray silt, little fine gravel.	2SS-140H
65							
			43-50/0.3-	50/3	GM	Wet to saturated, very dense, dark gray coarse to medium to fine angular gravel, little silt.	2SS-140H
70							
			25-13-25-32	38	GM	Saturated, dense, dark gray, angular coarse to medium to fine gravel, little silt.	2SS-140H
75							
			42-50-	50	GM	Wet to saturated, very dense, gray, sub angular coarse to medium to fine gravel, little silt, trace fine sand.	2SS-140H
80							

## BORING LOG

Page 5 of 6

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-06

Date: 10/19/2006 - 10/24/2006

Weather: Rain 50 deg F

Northing: 1119678.884

Easting: 907882.555

Elevation: 434.49

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: Y.V. , W.M.

Rig Type: ATV 850

Total Depth: 120.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
80							
			48-35-32-32	67	GM	Wet, dense, gray, rounded coarse to medium to fine gravel, some silt and fine sand.	2SS-140H
85							
			48-29-50	79	GM	Wet to saturated, very dense, grayish brown, sub angular coarse to medium to fine gravel and silt, little coarse to medium to fine sand.	2SS-140H
90							
			20-20-40-50/.2	60	GM	Saturated, dense, light brown, sub angular medium to fine gravel and silt, little coarse to medium to fine sand.	2SS-140H
95							
			50---	50	GM	Saturated, dense, light brown, cemented medium to fine gravel, some silt, little medium to fine sand.	2SS-140H
100							

# Honeywell

Site: Settling Basins 9-15  
Boring No: SB915-SB13-06  
Date: 10/19/2006 - 10/24/2006  
Weather: Rain 50 deg F

Total Depth: 120.0 Ft  
Depth Units: Ft

[illegible]



## BORING LOG

Page 1 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-07

Date: 10/25/2006 - 10/26/2006

Weather: Overcast 45 deg F

Northing: 1120491.848

Easting: 906732.648

Elevation: 427.19

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 45.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			1-0-1-0	1	SOLW	Top 2 inches: organics. Bottom 10 inches: moist, soft, yellowish-gray (5Y 8/1), red gray (N5) and red light gray (N6) silt-sized particles in paste-like matrix mm-cm scale laminations.	2SS-140H
			WH-WH-WH-WH	0	SOLW	Top 2 inches: organics. Bottom 10 inches: moist, soft, yellowish-gray (5Y 8/1), red gray (N5) and red light gray (N6) silt-sized particles in paste-like matrix mm-cm scale laminations.	2SS-140H
5							
		OL-0298-17				Shelby tube recovery: >24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10		OL-0298-18				Shelby tube recovery: 17 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			WH-WH-WH-WH	0	SOLW	Moist, soft, light gray (N7) to very light gray (N8) and white (N9) silt-sized particles in paste-like matrix. Slightly layered.	2SS-140H
15							
			WH-WH-1-1	1	SOLW	Moist, soft, very light gray (N8) and white (N9) (50/50) silt-sized particles in paste-like matrix.	2SS-140H
20							

## BORING LOG

Page 2 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-07

Date: 10/25/2006 - 10/26/2006

Weather: Overcast 45 deg F

Northing: 1120491.848

Easting: 906732.648

Elevation: 427.19

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 45.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20							
			1-0-0-0	0	SOLW	Moist, soft, very light gray (N8) and white (N9) (50/50) silt-sized particles in paste-like matrix.	2SS-140H
25							
		OL-0298-19				Shelby tube recovery: >24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30		OL-0298-20				Shelby tube recovery: >24 inches. See Geotechnical Report for Shelby Tube analysis.	Shelby
			100-	100/5	GM	Moist, very dense, grayish-red (10R 4/2) to dark yellowish-brown (10YR 4/2) coarse-medium gravel with some sand and silt. Various colors of mottling silt; moderate brown (5YR 4/4), light olive brown (5Y 5/6) and little moderate red (5R 4/6) and pale green (5G 7/2).	2SS-140H
35							
			13-50/4--	50/4	GM	Moist, very dense, grayish-red (10R 4/2) to dark yellowish-brown (10YR 4/2) coarse-medium gravel with some sand and silt. Various colors of mottling silt; moderate brown (5YR 4/4), light olive brown (5Y 5/6) and little moderate red (5R 4/6) and pale green (5G 7/2).	2SS-140H
40							

## BORING LOG

Page 3 of 3

**Honeywell**

Site: Settling Basins 9-15

Boring No: SB915-SB13-07

Date: 10/25/2006 - 10/26/2006

Weather: Overcast 45 deg F

Northing: 1120491.848

Easting: 906732.648

Elevation: 427.19

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 45.0 Ft

Depth Units: Ft

Depth Ft	RecoV	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40							
45.0			40-50/4--	50/4	GM	Moist, very dense, grayish-red (10R 4/2) to dark yellowish-brown (10YR 4/2) coarse-medium gravel with some sand and silt. Various colors of mottling silt; moderate brown (5YR 4/4), light olive brown (5y 5/6) and little moderate red (5R 4/6) and pale green (5G 7/2). Recovery not noted.	2SS-140H

## BORING LOG

Page 1 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-08

Date: 10/09/2006 - 10/11/2006

Weather: Sunny 75 deg F

Northing: 1119335.745

Easting: 906932.568

Elevation: 435.20

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 76.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0						Moist, hard, medium-gray, sand-sized particles, some vegetative matter.	
			8-11-5-13	16	SOLW		2SS-140H
5						Moist to wet, medium gray, silt and sand-sized particles, cemented, hard.	
			2-1-5-8	6	SOLW		2SS-140H
						Wet, medium gray, silt and sand-sized particles, medium stiff.	
			10-10-5-2	15	SOLW		2SS-140H
10		OL-0299-01				Shelby tube recovery: 18 inches. See geotechnical Report for Shelby Tube Analysis.	Shelby
						Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0299-02					
15						Saturated, medium gray, stiff, sand-sized particles.	
			2-1-1-3	2	SOLW		2SS-140H
						Wet, stiff, light gray, sand-sized particles interceded with medium gray, silt-sized particles.	
			1-3-4-5	7	SOLW		2SS-140H
20							

## BORING LOG

Page 2 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-08

Date: 10/09/2006 - 10/11/2006

Weather: Sunny 75 deg F

Northing: 1119335.745

Easting: 906932.568

Elevation: 435.20

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 76.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			6-4-2-6	6	SOLW	Wet, stiff, light gray, sand-sized particles interceded with tan and dark gray, silt-sized particles, softer.	2SS-140H
		OL-0299-03				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
25		OL-0299-04				Shelby tube recovery: 11 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30			3-1-17-9	18	SOLW	Wet, stiff, light gray sand-sized particles with few interlayering of medium gray, medium stiff, silt-sized particles.	2SS-140H
35			2-2-6-18	8	SOLW	Moist to wet, medium stiff, dark gray with interlayered white silt-sized particles. Last 3 inches is light gray, hard, sand-sized particles.	2SS-140H
			13-31-5-3	36	SOLW	Moist, stiff, light gray, sand-sized particles. Trace white, soft, silt-sized particles.	2SS-140H
40		OL-0299-05				Shelby tube recovery: 18 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby

## BORING LOG

Page 3 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-08

Date: 10/09/2006 - 10/11/2006

Weather: Sunny 75 deg F

Northing: 1119335.745

Easting: 906932.568

Elevation: 435.20

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 76.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40		OL-0299-05				Shelby tube recovery: 18 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			10-14-18-19	32	OL	Moist to damp, stiff, moderate brown silt, some clay, little fine sand. At 42.5 feet is fine sand, some silt.	2SS-140H
45			8-12-50/0.4-	62/9	SM	Saturated, firm, moderate yellowish brown, fine sand, little silt, trace clay.	2SS-140H
			25-5-36-50	41	SM	Top 12 inches: saturated, firm, moderate yellowish brown, fine sand, little silt, trace clay. Bottom 6 inches: moist, hard, dark gray, gravel (angular), and medium to coarse sand. At 48 feet observed contact of fine sand with moist, angular, gravel and sand.	2SS-140H
50			50---	50/5	GP	Moist, hard, dark gray, gravel (angular), and medium to coarse sand..	2SS-140H
			21-22-38-50/3	60	GP	Damp, dense, greenish black, angular gravel (medium to coarse-sized), some coarse sand and medium sand, little fine sand.	2SS-140H
55			9-8-9-8	17	GP	Damp, dense, greenish black, angular gravel (medium to coarse-sized), some coarse sand and medium sand, little fine sand.	2SS-140H
60							

## BORING LOG

Page 4 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-08

Date: 10/09/2006 - 10/11/2006

Weather: Sunny 75 deg F

Northing: 1119335.745

Easting: 906932.568

Elevation: 435.20

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 76.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60							
65			9-11-11-11	22	GP	Saturated, medium dense, moderate yellowish brown, medium to coarse gravel (subrounded mostly), some coarse to medium sand, little silt, fine sand. At 63 feet inferred contact between moist gravel, sand and saturated gravel, sand.	2SS-140H
		OL-0301-05	17-20-21-25	41	GP	Saturated, medium dense, moderate yellowish brown, medium to coarse gravel (subrounded mostly), some coarse to medium sand, little silt, fine sand.	2SS-140H
70							
75			6-12-36-13	48	GP	Saturated, medium dense, dark yellowish brown, medium gravel (subrounded) some fine gravel and coarse sand, little medium sand, trace silt.	2SS-140H
76.0							

## BORING LOG

Page 1 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-09

Date: 10/26/2006 - 10/27/2006

Weather: Overcast 45 deg F

Northing: 1121036.161

Easting: 905920.846

Elevation: 431.27

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 65.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			1-1-1-1	2	SOLW	Top 6 inches: silty organic soil. Bottom 2 inches moist, soft, yellowish gray (5Y 8/1) light gray (N7) and white (N9) silt-sized particles in paste-like matrix.	2SS-140H
			1-1-1-2	2	SOLW	Moist, soft 4-5 shades of gray from medium dark gray (N4) to white (N9). Silt-sized particles in paste-like matrix laminated/stratified in varying thicknesses.	2SS-140H
5							
		OL-0299-06				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10							
		OL-0299-07				Shelby tube recovery: 22 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			3-2-1-1	3	SOLW	Moist, soft, yellowish-gray (5Y 8/1) and light gray (N7) silt and sand-sized particles in paste-like matrix, some cemented layers.	2SS-140H
15							
			10-15-17-9	32	SOLW	Moist, hard, light gray (N7) sand and silt-sized particles in semi-cemented matrix, mostly homogeneous, no layering, cemented regions present. Sand particles multi-colored.	2SS-140H
20							



## BORING LOG

Page 2 of 4

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-09

Date: 10/26/2006 - 10/27/2006

Weather: Overcast 45 deg F

Northing: 1121036.161

Easting: 905920.846

Elevation: 431.27

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 65.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20							
			8-4-6-7	10	SOLW	Top 4 inches: Moist, hard, light gray (N7) sand-and silt-sized particles in semi-cemented matrix, mostly homogeneous, no layering, cemented regions present. Sand particles multi-colored. Bottom 10 inches: 1-inch to 2-inch layers moist, hard, light gray (N7) sand-and silt-sized particles in semi-cemented matrix, mostly homogeneous, no layering, cemented regions present. Sand particles multi-colored and moist, soft, white (N9), silt-sized particles in paste-like matrix.	2SS-140H
25							
		OL-0299-08				Shelby tube recovery: 17 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30							
		OL-0299-09				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			6-5-3-5	8	SOLW	Moist, stiff, light gray (N7) and medium light gray (N6) sand-and silt-sized particles. Layers 1 inch to 2 inches cemented.	2SS-140H
35							
			WR-WR-2-3	2	SOLW	Moist, soft, many shades of gray from medium dark gray (N4) to white (N9), silt-sized particles in paste-like matrix, few cemented layers. Laminations and stratifications present from 1mm to few cm in thickness.	2SS-140H
40							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-09

Date: 10/26/2006 - 10/27/2006

Weather: Overcast 45 deg F

Northing: 1121036.161

Easting: 905920.846

Elevation: 431.27

Drilling Company: Parratt Wolff

Driller: Joe Percy

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 65.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40							
			1-0-1-0	1	SOLW	Moist, soft, many shades of gray from medium dark gray (N4) to white (N9), silt-sized particles in paste-like matrix, few cemented layers. Laminations and stratifications present from 1mm to few cm in thickness.	2SS-140H
45							
		OL-0299-10				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
50		OL-0299-11				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			1-0-0-75	0	SOLW	Moist, soft, medium dark gray (N4) to white (N9) silt-sized particles in paste-like matrix, layers of alternating colors.	2SS-140H
55							
		OL-0301-06	15-13-12-17	25	GM	Wet, dense, dark yellowish brown (10YR 4/2) gravel with some sand and silt.	2SS-140H
60							

# Honeywell

Site: Settling Basins 9-15  
Boring No: SB915-SB13-09  
Date: 10/26/2006 - 10/27/2006  
Weather: Overcast 45 deg F

Drilling Company: Parratt Wolff  
Driller: Joe Percy  
Logging Company: O'Brien and Gere  
Geologist: JOE GALLO                      Rig Type: ATV 850

[illegible]

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-10

Date: 10/30/2006 - 11/01/2006

Weather: Partly Cloudy 55 deg F

Northing: 1120524.16

Easting: 905780.231

Elevation: 428.49

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 60.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			1-0-1-0	1	SOLW	1 inch organic silty topsoil, remaining 11 inches mostly soft, yellowish gray (5Y 8/1) and light gray (N7) silt-sized particles in paste-like matrix, layered.	2SS-140H
5		OL-0299-12				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0299-13				Shelby tube recovery : 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10							
			WH-WH-WH-WH	0	SOLW	Moist to wet, soft, white (N9) to very light gray (N8) silt-sized particles in paste-like matrix, cohesive.	2SS-140H
15		OL-0299-14				First shelly tube recovery: 0 inches (attempt failed). Second shelly tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0299-15				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
20							

## BORING LOG

Page 2 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-10

Date: 10/30/2006 - 11/01/2006

Weather: Partly Cloudy 55 deg F

Northing: 1120524.16

Easting: 905780.231

Elevation: 428.49

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 60.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20							
			WH-WH-WH-WH	0	SOLW	Moist to wet, soft, yellowish gray (5Y 8/1) silt-sized particles in paste-like matrix, cohesive.	2SS-140H
25							
		OL-0299-16				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0299-17				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30							
			WR-WR-WR-WR	0	SOLW	Moist, soft, yellowish gray (5Y 8/1) to light gray (N7) silt-sized particles in paste-like matrix, cohesive.	2SS-140H
35							
		OL-0299-18				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
40							

## BORING LOG

Page 3 of 3

# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-10

Date: 10/30/2006 - 11/01/2006

Weather: Partly Cloudy 55 deg F

Northing: 1120524.16

Easting: 905780.231

Elevation: 428.49

Drilling Company: Parratt Wolff

Driller: Bill Rice

Logging Company: O'Brien and Gere

Geologist: JOE GALLO

Rig Type: ATV 850

Total Depth: 60.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40							
					SOLW	Wet, soft to medium dense, yellowish gray (5Y8/1) and medium gray (N5) silt-sized particles with >5% sand-sized particles, black (N1) in paste-like matrix, some cemented layers. Note: Blow counts and N value not recorded as spoon was advanced through a previously disturbed interval.	2SS-140H
45							
			3-6-14-17	20	SOLW	Top 1 inch: moist, soft, medium light gray (N6) and very light gray (N8) silt-sized particles in paste-like matrix, cohesive. Bottom 2 inches: moist, dense, dark yellowish brown (10YR 4/2) coarse to medium gravel with some sand and silt. Also pieces of cardboard. At 49.5 feet contact of SOLW with gravel and sand.	2SS-140H
50							
			14-9-7-7	16	GM	Poor recovery, sample taken mainly from basket. Wet, medium dense, dark yellowish brown (10YR 4/2) coarse to medium gravel with sand and silt.	2SS-140H
55							
			77-42-42-34	84	GM	Top 8 inches wet, very dense, dark yellowish brown (10YR 4/2) gravel with sand and silt, common patches of light olive (10Y 5/4) and dusky red (5R 3/4) mottling. Bottom 8 inches same material, all grayish black (N2), moderate sewage odor.	2SS-140H
60.0							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-11

Date: 10/16/2006 - 10/17/2006

Weather: Partly Cloudy 60 deg F

Northing: 1119259.282

Easting: 906145.024

Elevation: 429.93

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. VELIZ, J.GALLO Rig Type: ATV 850

Total Depth: 82.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			1-1-0-0	1	SOLW	2 inches is damp, soft, moderate brown, silt, some fine sand, vegetative roots, 10 inches is damp to moist, soft, white and light gray, silt-sized particles.	2SS-140H
5			1-0-1-0	1	SOLW	Poor recovery, sample was combined with the 6-8 section. Wet, soft, light gray, silt-sized particles.	2SS-140H
			WH-WH-WH-WH	0	SOLW	Poor recovery, sample was combined with the 4-6 section. Wet, soft, light gray, silt-sized particles.	2SS-140H
		OL-0299-19				Shelby tube recovery: 15 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10		OL-0300-01				Shelby tube recovery : 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
15			WH-WH-WH-1	0	SOLW	Saturated, soft, white and dark gray (interlayered), silt-sized particles.	2SS-140H
20							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-11

Date: 10/16/2006 - 10/17/2006

Weather: Partly Cloudy 60 deg F

Northing: 1119259.282

Easting: 906145.024

Elevation: 429.93

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. VELIZ, J.GALLO Rig Type: ATV 850

Total Depth: 82.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			WH-WH-WH-WH	0	SOLW	Saturated, soft to medium stiff, light gray and medium gray, silt-sized particles, some dark gray, stiff, silt-sized particles.	2SS-140H
25			WH-WH-3-5	3	SOLW	Saturated, medium stiff, medium gray with some white interlayered silt-sized particles. Layers of stiff silt-sized units. Recovery not noted.	2SS-140H
30		OL-0300-02				Shelby tube recovery: 11.5 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
		OL-0300-03				Shelby tube recovery: 22.25 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
35			WH-WH-WH-WH	0	SOLW	Wet to saturated, soft, medium gray (thin laminated white layers), silt-sized particles.	2SS-140H
40							



## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-11

Date: 10/16/2006 - 10/17/2006

Weather: Partly Cloudy 60 deg F

Northing: 1119259.282

Easting: 906145.024

Elevation: 429.93

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. VELIZ, J.GALLO Rig Type: ATV 850

Total Depth: 82.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			WH-WH-1-1	1	SOLW	Wet to saturated, soft, medium gray, silt-sized particles.	2SS-140H
45			WH-WH-1-1	1	SOLW	Very wet to wet, soft to medium stiff, medium gray, (N5), silt-sized particles with cm scale layers of white (N9). Recovery not noted.	2SS-140H
50			1-WH-1-1	1	SOLW	Wet, soft to medium stiff, medium gray (N5) with cm-scale layers of white (N9), silt-sized particles. Recovery not noted.	2SS-140H
55			WH-WH-1-1	1	SOLW	Wet, soft to medium stiff, medium gray (N5) with cm-scale layers of white (N9), silt-sized particles. Recovery not noted.	2SS-140H
						Shelby tube recovery: 19.5 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
60		OL-0300-04					

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-11

Date: 10/16/2006 - 10/17/2006

Weather: Partly Cloudy 60 deg F

Northing: 1119259.282

Easting: 906145.024

Elevation: 429.93

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. VELIZ, J.GALLO Rig Type: ATV 850

Total Depth: 82.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60		OL-0300-05				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
65			12-16-10-8	26	SOLW	Top 15 inches is wet, soft, white (N9) and medium light gray (N6), silt-sized particles in paste-like matrix, mm scale layering. Bottom 9 inches is medium dark, yellowish brown (10 YR 4/2) silt and fine sand, dense, moist.	2SS-140H
70			7-5-7-6	12	GM	Wet, dense, dark yellowish brown (10 YR 4/2) coarse to medium gravel with coarse-medium sand and silt. Two inch band of black (N1) (cinders?) in middle.	2SS-140H
75			5-23-34-11	57	GM	Very wet, loose, dark yellowish brown (10 YR 1/2) coarse to medium gravel, with some sand/silt. Recovery not noted.	2SS-140H
80							

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring No: SB915-SB13-11

Date: 10/16/2006 - 10/17/2006

Weather: Partly Cloudy 60 deg F

Northing: 1119259.282

Easting: 906145.024

Elevation: 429.93

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: Y. VELIZ, J.GALLO Rig Type: ATV 850

Total Depth: 82.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
80			21-35-45-50	80	SP	Moist, wet, dense, grayish red (10 YR 4/2), silt with coarse to medium gravel suspended in matrix. Recovery not noted.	2SS-140H
82.0							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-12

Date: 10/30/2006 - 11/01/2006

Weather: Partly Cloudy 50 deg F

Northing: 1119890.762

Easting: 905646.705

Elevation: 423.44

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			WH-WH-WH-1	0	SOLW	Moist, loose, gray and brown, silt-and silt-sized SOLW with some organic material on top.	2SS-140H
			WH-WH-WH-WH	0	SOLW	Moist, loose, alternating layers of gray, light gray and brownish yellow, silt-sized SOLW.	2SS-140H
5							
		OL-0300-06				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
10					SOLW	Wet, loose, white and light gray, crumbly SOLW, one thin band of SOLW. Note: Blow counts and N value not recorded as spoon was advanced through a previously disturbed interval.	Shelby
		OL-0300-08				Shelby tube recovery: 22 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
15							
			WR-WR-1-0	1	SOLW	Moist, loose, tan for 6 inches, gray for next 6 inches, then white, crumbly SOLW.	2SS-140H
20							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-12

Date: 10/30/2006 - 11/01/2006

Weather: Partly Cloudy 50 deg F

Northing: 1119890.762

Easting: 905646.705

Elevation: 423.44

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20			WH-WH-WH-WH	0	SOLW	Saturated, loose, white, silt-sized with trace fine gravel-sized SOLW.	2SS-140H
25			WH-WH-WH-WH	0	SOLW	Moist, loose, white with gray layers, crumbly and pasty layers SOLW.	2SS-140H
		OL-0300-07				Shelby tube recovery: 14 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
30		OL-0300-09				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
35			WH-WH-WH-WH	0	SOLW	Moist, loose, white, paste-like SOLW.	2SS-140H
40							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-12

Date: 10/30/2006 - 11/01/2006

Weather: Partly Cloudy 50 deg F

Northing: 1119890.762

Easting: 905646.705

Elevation: 423.44

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40			WH-WH-WH-WH	0	SOLW	Moist, loose, white, paste-like SOLW.	2SS-140H
		OL-0300-10				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
45		OL-0300-11				Shelby tube recovery: 24 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
50			1-1-2-8	3	SOLW	Top 20 inches wet, soft, light to medium gray, paste-like without distinct layering, little light brown intermixed in bottom 6 inches. Bottom 4 inches wet, stiff, dark gray, silt and clay with some wood material (peat-like), ammonia odor. At 51.7 feet contact of SOLW with native (OL).	2SS-140H
55			13-15-13-13	28	GC	Wet, medium dense, light brown to olive grayish, fine to medium gravel, little fine to coarse sand, trace silt, gravel is sub-angular.	2SS-140H
60							

## BORING LOG

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**Honeywell**

Site: Settling Basins 9-15

Boring No: SB915-SB13-12

Date: 10/30/2006 - 11/01/2006

Weather: Partly Cloudy 50 deg F

Northing: 1119890.762

Easting: 905646.705

Elevation: 423.44

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: W. MONETTE

Rig Type: ATV 850

Total Depth: 62.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			6-10-13-18	23	GM	Top 12 inches wet, medium dense, dark gray, fine gravel, some medium to coarse sand, trace silt. Bottom 6 inches very wet, medium dense, grayish, fine to medium gravel, little medium to coarse sand, trace silt.	2SS-140H
62.0							

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-13

Date: 10/11/2006 - 10/13/2006

Weather: Rain 60 deg F

Northing: 1118840.367

Easting: 905138.455

Elevation: 436.05

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 76.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
0			4-4-3-2	7	ML	Moist, medium stiff, moderate brown, silt, little clay and fine sand, some vegetative roots, last 3 inches is damp, stiff, light gray, sand-sized particles. At 1.75 feet ML contact with SOLW.	2SS-140H
5			4-2-7-9	9	SOLW	10 inches is moist, stiff, light gray, silt-and sand-sized particles, 12 inches is moist, soft to stiff, dark gray and white (interlayered), paste and silt-sized particles.	2SS-140H
			5-1-3-9	4	SOLW	Wet, medium stiff and stiff, medium gray and dark gray (interlayered) silt-and sand-sized particles. Some hard layers of sand-sized particles. Blow counts and N value based on split spoon from 7.2 to 9 ft.	2SS-140H
			4-9--		SOLW	Saturated, stiff, medium gray sand-sized particles, some hard layers of sand-sized particles. Softer below 10 feet.	2SS-140H
10		OL-0300-12				Shelby tube recovery: 15 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			2-7-9-2	16	SOLW	Wet to saturated, stiff, light gray, sand-sized particles, piece of hard SOLW material in tip of spoon.	2SS-140H
15		OL-0300-13				Shelby tube recovery: 7 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
						Shelby tube recovery: 3 inches. Sample placed in jar.	Shelby
20							



## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-13

Date: 10/11/2006 - 10/13/2006

Weather: Rain 60 deg F

Northing: 1118840.367

Easting: 905138.455

Elevation: 436.05

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 76.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
20		OL-0300-14				Shelby tube recovery: 10.5 inches. See Geotechnical Report for Shelby Tube Analysis.	Shelby
			20-22-25-10	47	SOLW	Wet, stiff, light gray, silt-and sand-sized particles.	2SS-140H
25			6-7-8-8	15	SOLW	Wet, stiff, light gray, silt-and sand-sized particles, hard layers of sand-sized particles.	2SS-140H
			10-8-14-8	22	SOLW	Wet, stiff, light gray, silt-and sand-sized particles, hard layers of sand-sized particles.	2SS-140H
			3-4-5-	9	SOLW	Wet, stiff, light gray, sand-sized particles in cemented matrix.	2SS-140H
30			5-20-11-5	31	SOLW	Wet, stiff, light gray, silt-and sand-sized particles. Hard layers (~3 inches) of silt-and sand-sized particles in a cemented matrix.	2SS-140H
					SOLW	Moist to wet, stiff, light gray, sand-sized particles, some layers of silt-sized particles, hard layers of silt-sized particles (about 2 inches). Note: Blow counts and N value were not recorded as spoon was advanced through a previously disturbed interval.	2SS-140H
35			4-5-5-8	10	SOLW	Moist to wet, stiff, light gray, sand-sized particles, some layers of silt-sized particles, hard layers of silt-sized particles (~2 inches).	2SS-140H
			13-21-22-25	43	SOLW	Moist to wet, stiff, light gray, sand-sized particles, some layers of silt-sized particles, hard layers of silt-sized particles (~2 inches).	2SS-140H
40					SOLW	Wet, stiff, light gray, sand-sized particles, hard layers of silt-and sand-sized particles. Note: Blow counts and N value were not recorded as spoon was advanced through a previously disturbed interval.	2SS-140H

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-13

Date: 10/11/2006 - 10/13/2006

Weather: Rain 60 deg F

Northing: 1118840.367

Easting: 905138.455

Elevation: 436.05

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 76.0 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
40		OL-0300-15				Shelby tube recovery: 6 inches. See Geotechnical Report for Shelby Tube Analysis. At 42 feet inferred contact between SOLW and silt.	Shelby
			4-5-2-2	7	ML	5-inches of moist, medium stiff, moderate brown, silt, some clay (ML). 17-inches of saturated, medium stiff to firm, dark yellowish brown, fine sand, and silt, little clay (SM). Orange staining spots. Sewer odor.	2SS-140H
45			2-1-1-1	2	SM	Saturated, soft, olive gray, fine sand, some silt, little clay.	2SS-140H
50			7-12-13-12	25	SM	Saturated, medium stiff, olive gray, fine sand, some silt, little clay.	2SS-140H
55			50/0.4--	50/.4	SM	Poor recovery, medium to coarse sand beneath fine sand.	2SS-140H
60			14-10-13-14	23	SP	Dry, medium dense, pale yellowish brown, medium sand and silt, some fine gravel, and coarse gravel. At 59 feet inferred contact between fine sand and sand.	2SS-140H

## BORING LOG

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# Honeywell

Site: Settling Basins 9-15

Boring No: SB915-SB13-13

Date: 10/11/2006 - 10/13/2006

Weather: Rain 60 deg F

Northing: 1118840.367

Easting: 905138.455

Elevation: 436.05

Drilling Company: Parratt Wolff

Driller: Rick Navatka

Logging Company: O'Brien and Gere

Geologist: YURI VELIZ

Rig Type: ATV 850

Total Depth: 76.0 Ft

Depth Units: Ft

Depth Ft	Reco	Sample ID	Blow Count	N Value	USCS Code	Soil Description	Sample Method
60			14-10-13-14	23	SP	Dry, medium dense, pale yellowish brown, medium sand and silt, some fine gravel, and coarse gravel. At 59 feet inferred contact between fine sand and sand.	2SS-140H
65			9-9-12-14	21	GP	Saturated, medium dense, moderate yellowish brown, coarse sand and gravel, little medium sand, fine sand and silt. At 64 feet inferred contact between SP and GP.	2SS-140H
70			5-8-8-5	16	GP	Saturated, medium dense, moderate yellowish brown, coarse sand and gravel, little medium sand, fine sand and silt.	2SS-140H
75			5-6-13-10	19	SW	Saturated, medium dense, moderate yellowish brown, medium sand some fine sand, little silt. No blow counts noted. Boring backfilled with grout.	2SS-140H
76.0							