APPENDIX B VIBRACORE AND BOREHOLE LOGS

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10176 Start/End Date: 06/19/2009

Weather: Low 70s, Light Winds, sun&clouds

Northing: 1118055.03

Easting: 923988.20

Mud Line: 361.46 Ft

asting: 923988.20

Surface Water Depth: 2.0 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD

Depth Units: Ft

Total Depth: 20.0 Ft Water Elevation: 363.46

Rig Type: Barge Mounted

Depth	Recov	Sample	Blow	N	PID	USCS	O a il D a a sainti a s	Sample	0,
Ft	A.	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
0			1-WH-1-WH	1	22.6	SOLW	0-2 inches: Wet, very soft, white, silt-like grains, 1/2 inch crust lenses; 2-5 inches: Wet, very loose, white, fine to coarse sand-like grains, cementation throughout.	2SS-140H	
			1-WH-WH-3	0	35.0	SOLW	0-2 inches: Wet, very soft, white, silt-like grains, 1/8 inch crust lenses; 2-8 inches: Wet, very soft, silt and sand-like grains, cementation throughout; 8-9 inches: Black cinder and ash.	2SS-140H	
5 —			2-2-4-6	6	18.1	SOLW	0-16 inches: Wet, loose, white, sand-like grains, crust, 3 soft lenses (1 inch thick each); 16-20 inches: Wet, loose, gray and black, fine to medium sand-like grains, cementation throughout.	2SS-140H	Solvay Wa
-			4-9-9-24	18	9.1	SOLW	0-9 inches: Wet, medium dense, gray sand-like and silt-like grains, cementation and crusts throughout; 9-24 inches: Wet, medium dense, gray, fine and medium sand-like grains, cementation throughout.	2SS-140H	
- -			10-9-10-15	19	14.9	SOLW	Wet, medium dense, fine and medium sand-like grains, cementation throughout, ash and cinders at 14-15 inches.	2SS-140H	

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10176 Start/End Date: 06/19/2009

Weather: Low 70s, Light Winds, sun&clouds

Northing: 1118055.03

Easting: 923988.20

Mud Line: 361.46 Ft

isting: 923988.20

Surface Water Depth: 2.0 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD

Rig Type: Barge Mounted

Total Depth: 20.0 Ft
Water Elevation: 363.46

Depth Units: Ft

Ft 0	Sample ID	Count	Value			Soil Description		Jouatui
		5-4-3-2	7	(ppm) 6.1	SOLW	0-10 inches: Wet, loose, medium sand-like grains; 10-16 inches: Wet, loose, cemented fine to medium sand-like grains; 16-20 inches: Wet, medium stiff, cemented silt-like and fine sand-like grains; 20-24 inches: Wet, Soft, silt-like grains, thin 1/8" crusty lenses.	Method 2SS-140H	
4		1-WH-WH-WH	0	9.0	SOLW	0-3 inches: Wet, very loose, fine to coarse sand-like grains; 3-7 inches: Wet, very soft, crusted silt-like grains, white and green soft lenses, 1/2" each; 7-24 inches: Wet, very soft, white and green, silt-like grains, four 1/8" thick thin crust lenses.	2SS-140H	
15 —		WR-WR-WR	0	9.6	SOLW	Wet, very soft, white, silt-like grains.	2SS-140H	Solvay Was
-		WR-WR-WR	0	47.0	SOLW	0-11 inches: Wet, very soft, white, silt-like grains; 11-12 inches: Wet, very loose, medium to coarse Sand-like grains; 12-24 inches: Wet, very soft, black, silt-like grains, NAPL blebs near bottom.	2SS-140H	
-		WR-WR-WR	0	52.0	SOLW	Wet, very soft, dark gray-black, silt-like grains, chlorobenzene-like odor.	2SS-140H	

Page 1 of 1 **BORING LOG**



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10177 Start/End Date: 06/18/2009

Weather: Mid 60s Winds E-SE 10-20mph, cloudy

Northing: 1117923.93

Easting: 924855.91

Surface Water Depth: 5.7

Mud Line: 357.64

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD Rig Type: Barge Mounted Total Depth: 10.0 Ft

Water Elevation: 363.34 Borehole Depth Units: Ft

Recov	Sample	Blow	N	PID (nnm)	USCS	Soil Description	Sample	۱۵، ،
		WH-WH-WH-1	0	6.3	SOLW	0-3 inches: wet, very soft, dark gray and green, silt-like grains, some angular crust fragments; 3-24 inches: Wet, very soft and medium stiff, white, silt-like grains, alternating crust layers (1/2 to 1 inch thick).	2SS-140H	
		WH-2-2-2	2	0	SOLW	0-2 inches: Wet, dense, hard, silt-like grain crust; 2-15 inches: Soft, silt-like grains, crust lenses approximately 1/4" thick; 15-16 inches: sand-like grains, cemented crust; 16-24 inches: crusty silt-like grains.	2SS-140H	
		1-1-1-1	2	8.3	SOLW	Wet, light gray, crust and soft, silt-like grains, alternating with approximately 1/2" thick layers of light gray crust, silt-like grains, little fine sand.	2SS-140H	Solvay Was
		1-WH-WH-1	0	7.8	SOLW	0-7 inches: Wet, dense, white, silt-like grain crust; 7-24 inches: Soft, white, silt-like grains, approximately 3 thin crust lenses, about 1/8" thick each.	2SS-140H	
		WH-WH-WH	0	3.6	SOLW	Wet, very soft, white, silt-like grains, approximately 5 thin crust lenses, about 1/8" thick each from 14-22 inches.	2SS-140H	
	Recov	Sample ID	WH-WH-WH-1 WH-2-2-2 1-1-1-1	WH-WH-I 0 WH-2-2-2 2 1-1-1-1 2	WH-WH-WH-1 0 6.3 WH-2-2-2 2 0 1-1-1-1 2 8.3	WH-WH-WH-1 0 6.3 SOLW WH-2-2-2 2 0 SOLW 1-1-1-1 2 8.3 SOLW	WH-WH-WH-I 0 6.3 SOLW O-2 inches: Wet, very soft, dark gray and great sit-like grains, some angular crust fragments, 3-24 sinches: Wet, very soft and medium stiff, white, silt-like grains, alternating crust layers (1/2 to 1 inch thick). O-2 inches: Wet, dense, hard, silt-like grain crust; 2-15 inches: Soft, silt-like grains, crust lenses approximately 14" thick, 15-16 inches: crusty silt-like grains, cemented crust; 16-24 inches: crusty silt-like grains, alternating with approximately 1/2" thick layers of light gray crust. silt-like grains, little fine sand. 1-1-1-1 2 8.3 SOLW O-7 inches: Wet, dense, white, silt-like grain crust; 7-24 inches: Soft, white, silt-like grains, approximately 3 thin crust lenses, about 1/8" thick each. Wet, very soft, white, silt-like grains, approximately 5 thin crust lenses, about 1/8" thick each from 14-22 inches.	0.3 inches; wet, very soft, dark gray and green, sill-like grains, some angular crust fragments; 3-24 inches: Wet, very soft and medium stiff, white, sill-like grains, alternating crust layers (1/2 to 1 inch thick). WH-WH-WH-1

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10178 Start/End Date: 06/16/2009

Weather: High 70s, Winds E 5-10mph, mostly sunny

Northing: 1117842.37

Drilling Company: Atlantic Testing

Total Depth: 20.0 Ft

Easting: 925414.15

Driller: Mark Childs

Water Elevation: 363.5

Mud Line: 355.7 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 7.8 Ft

Borehole Geologist: SBD Rig Type: Barge Mounted Rig

Depth Ft	Recov	Sample	Blow Count	N Value	PID (ppm)	USCS	Soil Description	Sample Method	Stratun
0	L	ID	WR-WR-WR	0	68.0	SOLW	Wet, very soft, gray, silt-like grains, some zebra mussels, strong organic odor.	2SS-140H	
			WH-WH-WH	0	48.0	SOLW	Wet, very soft, light gray and gray, silt-ilke grain crust from 2-8 inches, chalky, fine to medium sand-like grains in bottom 12 inches.	2SS-140H	
5 —			1-WH-1-WH	1	17.5	SOLW	Wet, very soft, gray, medium to coarse sand-like grains, some crusty lenses, softer silt-like grains at bottom of sample, ashes and cinders.	2SS-140H	Solvay Was
			WH-1-1-1	2	10.2	SOLW	0-7 inches is wet, soft, gray, silt-like grains with crust layers/lenses. 18-24 inches is wet, soft, white, silt-like grains, little sand-like grains, chalk-like.	2SS-140H	
			WH-1-WH-1	1	2.3	SOLW	Wet, whitish-light gray, silt-like grains, 0-1.5 inches is crust, some sand-like grains, rest of sample is wet, soft, silt-like grains, thin crust lenses, chalky consistency.	2SS-140H	

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10178 Start/End Date: 06/16/2009

Weather: High 70s, Winds E 5-10mph, mostly sunny

Northing: 1117842.37 Easting: 925414.15 **Drilling Company: Atlantic Testing**

Driller: Mark Childs

Total Depth: 20.0 Ft Water Elevation: 363.5

Mud Line: 355.7 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 7.8 Ft

Borehole Geologist: SBD Rig Type: Barge Mounted Rig

Recov	Sample	Blow	N Value	PID (ppm)	USCS	Soil Description	Sample Method	Stratur
		WH-1-1-1	2	1.5	SOLW	Wet, whitish-light gray, silt-like grains, sand-like grains, little gravel, ash and cinder at upper 2 inches, rest of sample is silt-like grains, soft, wet, chalky, crusty lenses at 14-15 inches.	2SS-140H	
		WH-1-WH-1	1	3.4	SOLW	Wet, light gray-white, silt-like grains, trace ash and cinder at 22 inches, crust lenses, chalky consistency throughout.	2SS-140H	
		3-4-5-2	9	3.2	SOLW	Wet, light gray, silt-like grains, intermittent thin lenses of sand-like grains, trace ash/fine cinders, more compacted than above.	2SS-140H	Solvay Wa
		WH-2-2-4	4	2.4	SOLW	Wet, light gray, silt-like grains thin crust layers with trace ash and cinders, overall sample was compact like last sample.	2SS-140H	
		WH-2-WH-1	2	4.1	SOLW	Wet, greenish gray, silt-like grains, 3-5 inches sand-like ash and cinders, thin crust at 12 inches, rest of sample is silt-like grains, a little softer than last 2 samples.	2SS-140H	
	Reco	Sample ID	WH-1-1-1 WH-1-WH-1 3-4-5-2	WH-1-VH-1 1 3-4-5-2 9 WH-2-2-4 4	WH-1-1-1 2 1.5 WH-1-WH-1 1 3.4 3-4-5-2 9 3.2 WH-2-2-4 4 2.4	WH-1-1-1 2 1.5 SOLW WH-1-WH-1 1 3.4 SOLW WH-2-2-4 4 2.4 SOLW	Wet, whitsh-light gray, silt-like grains, sand-like grains, little grains, silt-like grains, soft, wet, chalky, crusty lenses at 14-15 inches. WH-1-1-1 2 1.5 SOLW Wet, light gray-white, silt-like grains, trace ash and cinder at 22 inches, crust lenses, chalky consistency throughout. Wet, light gray, silt-like grains, trace ash and cinder at 22 inches, crust lenses, chalky consistency throughout. Wet, light gray, silt-like grains, intermittent thin lenses of sand-like grains, trace ash/fine cinders, more compacted than above. Wet, light gray, silt-like grains, trace ash/fine cinders, more compacted than above. Wet, light gray, silt-like grains thin crust layers with trace ash and cinders, overall sample was compact like last sample. Wet, greenish gray, silt-like grains, 3-5 inches sand-like ash and cinders, thin crust at 12 inches, rest of sample is silt-like grains, a little softer than last 2 samples.	Wet, whitsh-light gray, silt-like grains, sand-like grains, little gravel, ash and cinder at upper 2 inches, rest of sample is silt-like grains, soft, wet, chalky, crusty lenses at 14-15 inches. Wet, light gray-white, silt-like grains, trace ash and cinder at 22 inches, crust lenses, chalky consistency throughout. Wet, light gray, silt-like grains, intermittent thin lenses of sand-like grains, trace ash/fine cinders, more compacted than above. 3-4-5-2 9 3.2 SOLW Wet, light gray, silt-like grains, intermittent thin lenses of sand-like grains, trace ash/fine cinders, more compacted than above. Wet, light gray, silt-like grains thin crust layers with trace ash and cinders, overall sample was compact like last sample. Wet, greenish gray, silt-like grains, 3-5 inches sand-like ash and cinders, thin crust at 12 inches, rest of sample is silt-like grains, a little softer than last 2 samples.

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10179 Start/End Date: 06/16/2009

Weather: High 70s, Winds E 5-10mph, mostly sunny

Northing: 1117694.67 Easting: 925940.63

Drilling Company: Atlantic Testing

Total Depth: 20.0 Ft

Mud Line: 353.50 Ft

Driller: Mark Childs

Water Elevation: 363.50

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 10 Ft

Borehole Geologist: SBD Rig Type: Barge Mounted Rig

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratur
0		10	WR-WR-WR	0	10.5	SOLW	Wet, very soft, dark gray, silt-like grains.	2SS-140H	
1			WR-WR-WR	0	8.0	SOLW	0-9 inches: Wet, very soft, dark gray, silt-like grains; 9-18 inches: Wet, very soft, whitish gray stained, silt-like grains.	2SS-140H	_
5 —			2-7-21-5	28	64.0	SOLW	0-11 inches: Wet, stiff, white, silt-like grains, firm crust lenses. 11-22 inches: Wet, silt-like and sand-like grains, dark lenses, cemented, dense, organic odor.	2SS-140H	Solvay Wa
+			3-2-10-21	12	2.5	SOLW	Wet, stiff, light gray, silt-like grains, bottom 6 inches much firmer, trace of crust in end of sample.	2SS-140H	
			WH-WH-WH	0	0.6	SOLW	Wet, firm, gray-green, silt-like grains, coarse sand-sized concretions in upper 1.5 inches, rest of sample is wet, soft, greenish, silt-like grains, mothball odor.	2SS-140H	_

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10179 Start/End Date: 06/16/2009

Weather: High 70s, Winds E 5-10mph, mostly sunny

Northing: 1117694.67

Drilling Company: Atlantic Testing

Total Depth: 20.0 Ft

Easting: 925940.63

Driller: Mark Childs

Water Elevation: 363.50

Mud Line: 353.50 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 10 Ft

Borehole Geologist: SBD Rig Type: Barge Mounted Rig

ID	Count WR-WR-WR-WR WR-WR-WR-WR	O 0	(ppm) 0.0	SOLW	No Recovery. Wet, very soft, greenish, silt-like grains, some sand-sized grains in top 3 inches.	Method 2SS-140H	
	WR-WR-WR	0	9.3	SOLW	Wet, very soft, greenish, silt-like grains, some sand-sized grains in top 3 inches.		
						2SS-140H	
	WR-WR-WR	0	8.0	SOLW	Wet, very soft, greenish, silt-like grains, mothball odor.	2SS-140H	Solvay Wa
_	WR-WR-WR	0	8.4	SOLW	Wet, very soft, greenish, silt-like grains, mothball odor.	2SS-140H	
_	WR-WR-WR	0	0.0	SOLW	Wet, very soft, greenish, silt-like grains, a little firmer in bottom half of sample, no crust.	2SS-140H	
						WR-WR-WR 0 8.4 SOLW Wet, very soft, greenish, silt-like grains, a little firmer in bottom half of sample, no crust.	WR-WR-WR 0 8.4 SOLW Wet, very soft, greenish, silt-like grains, a little firmer in bottom half of sample, no crust.

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10180 Start/End Date: 06/18/2009

Weather: Mid 60s Winds E-SE 10-20mph, cloudy

Northing: 1117518.81 Easting: 925244.03 **Drilling Company: Atlantic Testing**

Total Depth: 10.0 Ft

Easting: 925244.03

Driller: Mark Childs

Water Elevation: 363.34

Mud Line: 358.64 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 4.7 Ft

Borehole Geologist: SBD Rig Type: Barge Mounted Rig

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS	Soil Description	Sample Method	Stratun
0		ID.	2-1-2-2	3	4.2	SOLW	0-7 inches: Wet, firm, green and gray, sand-like and silt-like grains and crust. 7-22 inches is whitish gray, silt-like grains, alternating crust and soft layers.	2SS-140H	
			5-7-5-6	12	0.9	SOLW	Wet, dark gray and greenish gray, fine to medium sand-like grains, scattered ash and cinders, cemented.	2SS-140H	
5			2-4-2-1	6	20.8	SOLW	0-12 inches: Wet, firm, gray, silt-like grain crust, fine to medium sand-like grains, cemented at 4-12 inches 12-21 inches is whitish, silt-like grains, four 1/8" thin crust layers, mostly soft to medium density.	2SS-140H	Solvay Was
+			WH-WH-WH	0	5.9	SOLW	Wet, soft to medium stiff, slit-like grains, two crust lenses approximately 1/2 inch thick each.	2SS-140H	
+			WH-WH-WH	0	34.0	SOLW	Wet, soft to medium stiff, whitish, silt-like grains.	2SS-140H	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10181 Start/End Date: 06/17/2009

Weather: Mid 70s, Winds S-SE 10-20mph, sun&clouds

Total Depth: 20.0 Ft

Depth Units: Ft

Water Elevation: 363.24

Northing: 1117474.96 Easting: 925872.62

Mud Line: 355.24 Ft

4.96 Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Geologist: SBD

Borehole Logging Company: PARSONS

Surface Water Depth: 8 Ft

Rig Type: Barge Mounted Rig

B	>	0.1	D.	1 67	DID	11000		To .	I
Depth Ft	Recov	Sample	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratur
0			WR-WR-WR	0	6.1	SOLW	0-2 inches: Wet, very soft, gray, SILT, trace shells and sand-like grains; 2-8 inches: Very soft, whitish, silt-like grains, trace sand-like grains, mothball odor.	2SS-140H	
			WR-WH-2-2	2	42.0	SOLW	0-2 inches is wet, very soft, greenish, silt-like grains with thin (1/2 cm) crust lenses, approximately 5 lenses dispersed. 8-12 inches is dense, compacted, fine to medium sand-like grains, crumbles in hand.	2SS-140H	
5 +			7-4-1-1	5	23.0	SOLW	Wet, dense, light gray to white, compacted, fine to medium sand-like grains, crumbles in hand.	2SS-140H	Solvay Was
-			2-4-10-11	14	23.4	SOLW	Wet, soft to medium stiff, whitish gray, silt-like grains, three 1/2 cm thick crustier lenses in the lower 6 inches of sample.	2SS-140H	
+			WR-WR-WH-1	0	19.3	SOLW	0-3 inches: Wet, very soft, medium to coarse sand-like grains; 3-12 inches is wet, very soft, silt-like grains. 12-24 inches is wet, medium dense, silt-like grains, two 1 inch lenses of crust.	2SS-140H	

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10181 Start/End Date: 06/17/2009

Weather: Mid 70s, Winds S-SE 10-20mph, sun&clouds

Northing: 1117474.96

Drilling Company: Atlantic Testing

Total Depth: 20.0 Ft

Easting: 925872.62

Driller: Mark Childs

Water Elevation: 363.24

Mud Line: 355.24 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 8 Ft

Borehole Geologist: SBD

Rig Type: Barge Mounted Rig

Depth	Recov	Sample	Blow	N	PID	USCS	0.775	Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
10			WH-WH-WH	0	5.2	SOLW	0-1 inch is wet, very loose, whitish, sand-like grains; 1-24 inches is wet, very soft, whitish, silt-like grains, 1/2 cm crust lenses at 11 and 14 inches.	2SS-140H	
1							Wet, very soft, silt-like grains, mothball odor.		
1			WR-WR-WR	0	17.8	SOLW		2SS-140H	
÷		,					Wet, very soft, silt-like grains, mothball odor.		_
15 —			WH-WH-WH-1	0	9.1	SOLW		2SS-140H	Solvay Wa
+							Wet, very soft, silt-like grains, mothball odor.		_
+			WR-WR-WR	0	9.1	SOLW		2SS-140H	
							Wet, very soft, white, silt-like grains, bottom 3 inches of sample is very soft, green, silt-like grains, with dark gray layering,		
-			WR-WR-WR	0	20.3	SOLW		2SS-140H	
20.0									

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10182 Start/End Date: 06/17/2009

Weather: Mid 70s, Winds S-SE 10-20mph, sun&clouds

Northing: 1116771.02

Easting: 925872.62

Mud Line: 361.14 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD

Depth Units: Ft

Total Depth: 20.0 Ft

Water Elevation: 363.24

Surface Water Depth: 2.1 Ft Rig Type: Barge Mounted Rig N PID USCS Depth Sample Blow Sample Soil Description Stratum Ft ID Count Value Code Method (ppm) Wet, very soft, green-gray to dark gray, silt-like 0 grains, some broken angular crust pieces approximately 1 inch in size. 2.8 SOLW WR-WR-WH-1 2SS-140H Wet, very soft, silt-like grains, thin crust lenses approximately 1 cm each, mothball odor. 1-1-WH-WH 1 5.1 SOLW 2SS-140H Wet, very soft, white, silt-like grains, some sand-like grains, 1 inch crust layer, mothball odor. SOLW 0 1.6 5 1-WH-WH-WH 2SS-140H Solvay Waste Wet, very soft, white, silt-like grains, mothball WH-WH-WH-WH 0 2.0 SOLW 2SS-140H Wet, very soft, white, silt-like grains, lenses of crust approximately 3/4 inch to 1 inch thick, mothball 0.9 SOLW WR-1-WH-WH 1 2SS-140H 10

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10182 Start/End Date: 06/17/2009

Weather: Mid 70s, Winds S-SE 10-20mph, sun&clouds

Northing: 1116771.02

Drilling Company: Atlantic Testing

Total Depth: 20.0 Ft

Easting: 925872.62

Driller: Mark Childs

Water Elevation: 363.24

Mud Line: 361.14 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.1 Ft

Borehole Geologist: SBD Rig Type: Barge Mounted Rig

Depth	Recov	Sample	Blow	N	PID	USCS	Soil Description	Sample	Stratur
Ft 10	Ä	ID	Count	Value	(ppm)	Code	Wet, very soft, white, silt-like grains, bottom 2.5 inches is fine to medium dense sand over crusty silt-like grains, mothball odor.	Method	Stratui
			WR-WH-WH-WH	0	0.7	SOLW		2SS-140H	
			WR-WH-WH	0	0.8	SOLW	Wet, very soft, white, silt-like grains, angular pieces of crust at 17-18 inches, crust at 22-23 inches, mothball odor.	2SS-140H	
							Wet, very soft, white, silt-like grains, top 1 inch is crust, mothball odor.		
15 —			WR-WR-WR	0	0.6	SOLW		2SS-140H	Solvay Wa
			wн-wн-wн	0	0.6	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	2SS-140H	
			WR-WR-WR	0	1.4	SOLW	0-2 inches: Wet, very soft, white, silt-like grains, hard sandy zone, some rounded coarse sand-sized grains. Rest of spoon is wet, very soft, silt-like grains, little coarse sand-sized grains.	2SS-140H	

Page 1 of 3



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10183

Start/End Date: 06/22/2009 - 06/23/2009 Weather: High 70s, winds 10-20mph, sunny

Northing: 1116998.125

Drilling Company: Atlantic Testing

Total Depth: 55.0 Ft

Easting: 925459.632 Mud Line: 361.6 Ft Driller: Mark Childs

Water Elevation: 364.10
Borehole Depth Units: Ft

Widd Line. 301.0 Ft

Borehole Logging Company: PARSONS

20.0.0.0.0

Surface Water Depth: 2.5 Ft Borehole Geologist: SBD Rig Type: CME75

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID	USCS Code	Soil Description	Sample Method	Stratu
0	Œ.	ID	Count	value	(ppm)	Code	Drill down from 0 to 5 ft below mudline.	Metriod	
5 +			wн-wн-wн	0		SOLW	Wet, very soft, black, silt-like grains, organic odor.	2SS-140H	
							Drill down from 7 to 10 ft.		
10 +							Shelby Tube, No Recovery.	Shelby	
+ /							Shelby Tube.	Shelby	SOLV
15 —			WR-WR-WR	0		SOLW	Wet, very soft, white, silt-like grains, thin crust lense at 0 to 3 inches.	2SS-140H	
							Drill down from 16 to 17 ft. Shelby Tube.		
+			WR-WR-WR-WR	0		SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Shelby 2SS-140H	

Page 2 of 3



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10183

Start/End Date: 06/22/2009 - 06/23/2009 Weather: High 70s, winds 10-20mph, sunny

> Total Depth: 55.0 Ft Water Elevation: 364.10

Borehole Depth Units: Ft

Northing: 1116998.125 Easting: 925459.632

Mud Line: 361.6 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Depth	3	Sample	Blow	N	PID	USCS		Sample	
Ft	Recov	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratı
20			WR-WR-WR-WR	0	41117	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	2SS-140H	
							Drill down from 21 to 30 ft.		
25 —									
0 +			WR-WR-WR	0		SOLW	Wet, very soft, white, silt-like grains, mothball odor.	2SS-140H	SOL
+			WR-WR-WR	0		SOLW	Wet, very soft, white, silt-like grains, mothball odor.	2SS-140H	
35 +			WR-WR-WR	0		SOLW	Wet, very soft, dark gray grading to greenish gray, silt-like grains, organic odor.	2SS-140H	
†			WR-WR-WR	0		SOLW	0-8 inches: Wet, very soft, greenish gray, silt-like grains; 8-16 inches: Wet, very soft, dark gray and black, silt-like grains, trace clay.	2SS-140H	
†			WR-WR-WR-WR	0		ML	Wet, very soft, greenish brown, SILT, trace clay, trace small shells, sewage-like odor.	2SS-140H	Ма

Page 3 of 3



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10183

Start/End Date: 06/22/2009 - 06/23/2009 Weather: High 70s, winds 10-20mph, sunny

Northing: 1116998.125

Drilling Company: Atlantic Testing

Total Depth: 55.0 Ft Water Elevation: 364.10

Easting: 925459.632 Mud Line: 361.6 Ft Driller: Mark Childs
Borehole Logging Company: PARSONS

Borehole Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: SBD R

Rig Type: CME75

		6 14 16 V	16 10 10						
Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratu
40	<u>.</u>	ID.	Count	value	(ppin)	Code	Drill down from 40 to 41 ft.	Method	
							Shelby Tube.	Shelby	
1			WR-WR-WR-WR	0		ML	Wet, very soft, greenish brown, SILT, little clay, trace shells, sewage-like odor.	2SS-140H	1
45 +							Drill down from 45 to 46 ft.		-
-							Shelby Tube.	Shelby	Mar
							Drill down from 48 to 49 ft.		-
50 +						11 1	Shelby Tube.	Shelby	-
-			WR-WR-WR	0		ML	Wet, very soft, greenish gray, SILT, little clay, trace shells, slight odor.	2SS-140H	1
†						ML	Wet, very soft, dark gray and light gray, SILT, some clay, varved, slight odor.	2SS-140H	Silt and

Note: Null fields indicate readings were not taken.

Page 1 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10184

Start/End Date: 06/23/2009 - 06/24/2009

Weather: Low 80s, winds 10-15mph N, mostly sunny

Northing: 1117383.87

Easting: 925651.98

Surface Water Depth: 7.1 Ft

Mud Line: 356.93 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD/HMP Rig Type: CME75

Total Depth: 54.0 Ft

Water Elevation: 364.03

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratun
0	1						Drill down from 0 to 5 ft below mudline.		
5 +			WH-2-1-WH	3		SOLW	Wet, very loose, greenish white, fine to medium sand-like and silt-like grains, four 1/8"-thick crust lenses, mothball odor.	2SS-140H	
							Drill down from 7 to 10 ft.		
10 +		-					Shelby Tube. Wet, very soft, light green, silt-like grains,	Shelby	SOLW
		_	WR-WR-WR	0		SOLW	mothball odor. Drill down from 14 to 20 ft.	2SS-140H	
15 +									

Page 2 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10184

Start/End Date: 06/23/2009 - 06/24/2009

Weather: Low 80s, winds 10-15mph N, mostly sunny

Northing: 1117383.87

Drilling Company: Atlantic Testing

Total Depth: 54.0 Ft

Easting: 925651.98

Driller: Mark Childs

Water Elevation: 364.03

Mud Line: 356.93 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 7.1 Ft

Borehole Geologist: SBD/HMP Rig Type: CME75

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratu
16					u i		Drill down from 14 to 20 ft.		
20 —							Shelby Tube.	Shelby	-
-			WH-WH-WH	0		SOLW	Wet, very soft, white, silt-like grains, 1-inch thick dense lense at 12 inches, sewage-like odor.	2SS-140H	-
25 —							Drill down form 24 to 30 ft.		- SOLV
30 —							Shelby Tube.		-
32								Shelby	

Page 3 of 4 **BORING LOG**



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10184

Start/End Date: 06/23/2009 - 06/24/2009

Weather: Low 80s, winds 10-15mph N, mostly sunny

Northing: 1117383.87

Easting: 925651.98

Mud Line: 356.93 Ft

Surface Water Depth: 7.1 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD/HMP Rig Type: CME75

Total Depth: 54.0 Ft

Water Elevation: 364.03

Depth Units: Ft

Depth	Recov	Sample	Blow	N	PID	USCS	Call December	Sample	C44
Ft	A.	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
32			WR-WR-WR-WR	0		SOLW	Wet, very soft, greenish gray and black, silt-like grains, organic odor.	2SS-140H	
35 +			WR-WR-WR	0		SOLW	Wet, very soft, greenish gray and black, silt-like grains, organic odor.	2SS-140H	
1			WR-WR-WR	0		SOLW	Wet, very soft, dark gray grading to white, silt-like grains.	2SS-140H	SOLV
‡			WR-WR-WR	0		SOLW	Wet, very soft, white, silt-like grains, mothball odor.	2SS-140H	
40 +			WR-WR-WR	0		SOLW	Wet, very soft, whitish gray and green, silt-like grains, trace fine sand-like grains, mothball and organic odors.	2SS-140H	
+			WR-WR-WR	0		ML	0-6 inches: Wet, very soft, gray and green, silt-like grains; 6-12 inches: Wet, very soft, black, SILT, some organics; 12-24 inches: Wet, very soft, dark gray and brown, SILT, trace clay, slight odor.	2SS-140H	
45 +			WR-WR-WR	0		ML	Wet, very soft, dark greenish gray and brown, SILT, trace shells, slight odor.	2SS-140H	Mar
†							Shelby Tube.	Shelby	

Page 4 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10184

Start/End Date: 06/23/2009 - 06/24/2009

Weather: Low 80s, winds 10-15mph N, mostly sunny

Northing: 1117383.87

Drilling Company: Atlantic Testing

Total Depth: 54.0 Ft

Easting: 925651.98

Driller: Mark Childs

Water Elevation: 364.03 Ft

Mud Line: 356.93 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 7.1 Ft

Borehole Geologist: SBD/HMP Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	:
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratum
48							Shelby Tube.	Shelby	
50 —	1.0-4-		WR-WR-WR	0		ML	Wet, very soft, dark gray and brown, SILT, trace shells, trace organics, slight organic odor.	2SS-140H	Marl
			WR-WR-WH-WH	0		ML	Wet, very soft, dark gray and brown, SILT, trace clay, trace shells, mottling throughout, organic odor.	2SS-140H	_
54.0			Note: No	ull fields in	dicate read	lings were r	not taken.		

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10185 Start/End Date: 08/05/2009

Weather: High 70s, Winds NW 10-15mph, sun&clouds

Northing: 1117792.01 Easting: 923760.92 **Drilling Company: Atlantic Testing**

Total Depth: 10.0 Ft
Water Elevation: 363.33

Mud Line: 362.13 Ft

Driller: Mark Childs

Depth Units: Ft

Surface Water Depth: 1.2 Ft

Borehole Logging Company: PARSONS

Borehole Geologist: SBD

Rig Type: Tripod SPT

Depth	Recov	Sample	Blow	N	PID	USCS	0.115	Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratun
0			1-WH-1-1	1	0.0	SOLW	0-5 inches is wet, cemented/crust silt-like grains. Rest of spoon is wet, very soft, gray, silt-like grains.	2SS-140H	
			1-1-1-1	2	47.0	SOLW	0-6 inches is wet, very loose, white, sand-like grains, thin crust lenses approximately 1/8 inch thick. 6-13 inches is wet, white, compacted, silt-like grains with intermittant soft layers.	2SS-140H	
5 —	П		1-1-1-WH	2	8.1	SOLW	0-2 inches is wet, very soft, gray and black, silt-like grains. 2-10 inches is wet, firm, compacted, silt-like grains, bottom 2 inches is soft, gray, sand-like grains. 12-13.5 inches is wet, soft, white, silt-like grains.	2SS-140H	Solvay Wast
			WH-WH-WH	0	0.0	SOLW	Wet, very soft, white, silt-like grains.	2SS-140H	
+			WH-WH-WH	0	0.0	SOLW	Wet, very soft, light gray, silt-like grains and cemented sand-like grains, thin crust lenses approximately 1/8 inch thick, cemented sand-like grains are 1/2 inch thick.	2SS-140H	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10186 Start/End Date: 08/05/2009

Weather: High 70s, Winds NW 10-15mph, sun&clouds

Northing: 1117731.53 Easting: 924160.51

Drilling Company: Atlantic Testing

Total Depth: 10.0 Ft

Mud Line: 361.53 Ft

Driller: Mark Childs

Water Elevation: 363.33

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 1.8 Ft

Borehole Geologist: SBD Rig Type: Tripod SPT

eco/	Sample	Blow	N	PID	USCS	Sail Description	Sample	Stratum
Ř	ID	Count	Value	(ppm)	Code	•	Method	Stratum
		1-1-1-1	2	0.0	SOLW	IU-1 inch: is wet, soft, white, silt-like grains. 1-2 inches is wet, dense, gray, sand-like grains, cemented crust, crust plugged spoon.	2SS-140H	l
		1-WH-WH-1	0	0.0	SOLW	Wet, very soft, white, sand-like and silt-like grains, some broken crust material approximately 6 inches thick, the bottom is soft grading to firm silt-like and sand-like grains, more compacted, not cemented.	2SS-140H	
		1-1-1-WH	2	18.0	SOLW	Wet, soft, white, silt-like grains, two firmer lenses, approximately 1 inch thick, bottom 2 inches is brown, sand-like grains, organic odor.	2SS-140H	Solvay Waste
	_	1-1-1-1	2	15.0	SOLW	0-2 inches is wet, soft, black, silt-like grains, organic odor. 2-12 inches is wet, soft, white, firm, compacted silt-like grains, trace sand-like grains.	2SS-140H	
	_	1-1-WH-1	1	9.0	SOLW	Wet, soft, gray, silt-like grains, sand-like lenses, oil-like blebs in sandy lenses.	2SS-140H	
	Recov	ID Second	1-1-1-1 1-WH-WH-1 1-1-1-1	1-1-1-1 2 1-1-1-1 2	1-1-1-1 2 0.0 1-1-1-1 2 18.0	1-1-1-1 2 0.0 SOLW 1-WH-WH-1 0 0.0 SOLW 1-1-1-WH 2 18.0 SOLW	0-1 inch: is wet, soft, white, silt-like grains, 1-2 inches is wet, dense, gray, sand-like grains, cemented crust, crust plugged spoon. Wet, very soft, white, sand-like and silt-like grains, some broken crust material approximately 6 inches thick, the bottom is soft grading to firm silt-like and sand-like grains, more compacted, not cemented. SOLW Wet, soft, white, silt-like grains, two firmer lenses, approximately 1 inch thick, bottom 2 inches is brown, sand-like grains, organic odor. 1-1-1-WH 2 18.0 SOLW O-2 inches is wet, soft, black, silt-like grains, organic odor. 2-12 inches is wet, soft, white, firm, compacted silt-like grains, trace sand-like grains. Wet, soft, gray, silt-like grains, sand-like lenses, oil-like blebs in sandy lenses.	0-1 inch: is wet, soft, white, silt-like grains, sand-like grains, cemented crust, crust plugged spoon. 1-1-1-1 2 0.0 SOLW Wet, very soft, white, sand-like and silt-like grains, some broken crust material approximately 6 inches thick, the bottom is soft grading to firm silt-like and sand-like grains, more compacted, not cemented. SOLW Wet, soft, white, silt-like grains, two firmer lenses, approximately 1 inch thick, bottom 2 inches is brown, sand-like grains, organic odor. 1-1-1-WH 2 18.0 SOLW 0-2 inches is wet, soft, black, silt-like grains, organic odor. 2-12 inches is wet, soft, white, firm, compacted silt-like grains, trace sand-like grains. Wet, soft, gray, silt-like grains, sand-like lenses, oil-like blebs in sandy lenses.

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10187 Start/End Date: 06/18/2009

Weather: Mid 60s Winds E-SE 10-20mph, cloudy

Northing: 1117635.7 Easting: 924570.85 **Drilling Company: Atlantic Testing**

Total Depth: 10.0 Ft

M. . d I in a. 200 04 F4

Driller: Mark Childs

Water Elevation: 363.34

Mud Line: 360.84 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.4 Ft

Borehole Geologist: SBD Rig Type: Tripod SPT

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratur
0			1-1-WH-1	1	18.8	SOLW	0-2 inches is wet, soft, dark brown, SILT and Sand. 2-12 inches is wet, very soft, light gray, silt-like to sand-like grains, dense crust with thin soft lenses.	2SS-140H	
	I		1-5-8-12	13	3.9	SOLW	0-8 inches is wet, medium stiff, white, silt-like grains. 8-13 inches is wet, light gray, silt-like grains crust. 13-18 inches is wet, soft, white, silt-like grains, 3 thin 1/4 inch thick crust lenses. 18-24 inches is wet, dense, cemented, dark gray, fine to medium sand-like grains.	2SS-140H	
5 —			6-8-14-11	22	7.1	SOLW	Wet, dense, cemented fine to coarse sand-like and silt-like grains, dark discoloration at 12-18 inches, trace cinders and ash.	2SS-140H	Solvay Was
-		_	1-3-4-8	7	3.7	SOLW	0-7 inches is wet, dense, gray, compacted, cemented, fine to coarse sand-like and silt-like grains. 7-15 inches is soft, silt-like and sand-like grains, angular crust pieces in sand. 15-24 inches is white, silt-like grains, thin crust lenses approximately 1/2 inch thick.	2SS-140H	
+		-	4-6-5-11	11	5.0	SOLW	0-18 inches is dense, gray, compacted cemented, fine to medium sand-like and silt-like grains. 18-24 inches is white, silt-like grains, one 1-inch crust lense, contains black cinders and ash.	2SS-140H	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10189 Start/End Date: 08/26/2009 Weather: Windy, showers, cold

Northing: 1117137.66

Drilling Company: Atlantic Testing

Total Depth: 35.0 Ft

Easting: 926183.94 Mud Line: 354.88 Ft Driller: Mark Childs

Water Elevation: 362.38

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 7.5 Ft

Borehole Geologist: SD Rig Type: CME75

Depth g	Sample	Blow	N	PID	USCS		Sample	
Depth S	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
0		WOR-WOR-WOR	0	24.7	ML	Wet, very soft, gray, SILT, trace sand, strong organic odor.	2SS-140H	
		WOR-WOR-WOR	0	46.7	ML	Wet, very soft, gray, SILT, strong organic odor.	2SS-140H	Silt
5		WOR-WOR-WOR	0	63	SOLW	Wet, very soft, gray, silt-like grains, greenish color at bottom, strong organic odor and sewage odor, slightly crusty at bottom.	2SS-140H	
		WOR-WOR-WOR	0	42	SOLW	Wet, very soft, white, silt-liked grains, strong odors.	2SS-140H	
-		WOR-WOR-WOH-WOH	0	37.7	SOLW	Wet, very soft, white, silt-liked grains, strong odors, trace thin 1/8 inch crust lenses from 2 to 3 ft.	2SS-140H	
10 +					SOLW	Shelby Tube. Recovery = 24 in.	Shelby	Solvay Wa
-		WOR-WOR-WOR	0	22.8	SOLW	Wet, very soft, greenish-white, silt-like grains, organic odor.	2SS-140H	
					SOLW	Washed to 15 feet.		
15 +					SOLW	Shelby Tube. Recovery = 24 in.	Shelby	
+		WOR-WOR-WOR	0	2.2	SOLW	Wet, very soft, gray and dark gray, thinly bedded silt-like grains, green lense near top.	2SS-140H	

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-10189 Start/End Date: 08/26/2009 Weather: Windy, showers, cold

Northing: 1117137.66 Easting: 926183.94 **Drilling Company: Atlantic Testing**

Total Depth: 35.0 Ft

Mud Line: 354.88 Ft

Driller: Mark Childs

Water Elevation: 362.38

Surface Water Depth: 7.5 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Borehole Geologist: SD Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS	Soil Description	Sample Method	Stratu
Ft	R	ID	Count	Value	(ppm)	Code	·	Method	Otrata
18			WOR-WOR-WOR	0	2.2	SOLW	Wet, very soft, gray and dark gray, thinly bedded silt-like grains, green lense near top.	2SS-140H	
20 +			WOR-WOR-WOR	0	5.6	SOLW	Wet, very soft, gray and dark gray silt-like grains, organic odor.	2SS-140H	
			WOR-WOR-WOR	0	14	solw	Wet, very soft, dark gray-black, silt-like grains.	2SS-140H	
			WOR-WOR-WOR	0	3.9	SOLW	Wet, very soft, dark gray-black, silt-like grains.	2SS-140H	Solvay W
25 —			WOR-WOR-WOR	0	0.8	SOLW	Wet, very soft, dark gray, discolored silt-like grains, thin lenses of lighter gray silt-like grains throughout, organic odor, sheen.	2SS-140H	
†			WOR-WOR-WOR	0	1.8	SOLW	Wet, very soft, dark gray, discolored silt-like grains, thin lenses of lighter gray silt-like grains throughout, organic odor, sheen.	2SS-140H	_
80 +			WOR-WOR-WOR	0	0.2	SOLW/ML	O to 12 in: Wet, very soft, dark gray, stained silt-like grains, thin lenses of lighter gray silt-like grains throughout. 12 to 24 in: Wet, very soft, dark gray and gray, SILT, trace thin lenses of silt-like grains, marine odor.	2SS-140H	_
†			WOR-WOR-WOR	0	0.2	ML	Wet, very soft, tan, SILT, trace shells, burrows.	2SS-140H	Mar
			wон-wон-wон	0	0	ML	Wet, very soft, tan, SILT, trace shells, little odor, uniform (Transitional Marl).	2SS-140H	-

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20161

Date: 08/19/2009

Weather: Mid 80s, Winds NW 5-15mph, Mix sun & clouds

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Northing: 1120169.36

Easting: 921067.05 Mud Line: 361.4 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Surface Water Depth: 1.6 Ft Penetration Depth: 15 Core Recovery Depth: 14

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
)		OL-0896-15	0.5	sw	0 to 5 inches is wet, stiff, black and white, silt-like grains, trace fine sand, some cemented chunks, slight mothball odor (SOLW). Rest of core is wet, very loose, light gray, fine to medium SAND, trace shells, slight sulfur odor, (MARL).	Vibracore -	Solvay Waste
		OL-0896-16	1	sw	0 to 5 inches is wet, very loose, light gray, fine to medium SAND, little silt-like grains, trace shells, slight mothball odor (SW). 5 to 10 inches is wet, very soft, greenish-gray, silt-like grains, mothball odor (SOLW). 10 to 12 inches is wet, very loose, gray, fine to medium SAND, little shells, (MARL).	Vibracore	Marl
		OL-0896-17	0.6	SOLW	0 to 2 inches is wet, very loose, light gray, fine to medium SAND, little shells. 2 to 5 inches is wet, very soft, grayish-white, silt-like grains, some cemented chunks. 5 to 7 inches is wet, very soft, black, silt-like grains, some cemented chunks (SOLW). 7 to 12 inches is wet, very soft, grayish-white, silt-like grains, slight mothball odor.	Vibracore	
1		OL-0896-18	0.6	SOLW	Wet, very soft, grayish-white and greenish-gray, silt-like grains, mothball odor.	Vibracore	Solvay Wast
	_	OL-0896-19	0.3	SOLW	Wet, very soft, white, silt-like grains, layer of dark greenish-gray silt-like grains about 0.5 inch thick at 3 inches, mothball odor.	Vibracore	
		OL-0896-20	0.8	ML	0 to 3 inches is wet, very soft, grayish-white, silt-like grains (SOLW). Rest of core is wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor.	Vibracore	
		OL-0897-01	8.6	ML	0 to 1 inches is wet, very loose, black, fine to medium SAND, trace shells, trace organics, MARL. Rest of core is wet, very soft, light brown, SILT, some fine to medium sand, trace shells, trace organics, sulfur odor, (MARL).	Vibracore	Marl

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20161

Date: 08/19/2009

Weather: Mid 80s, Winds NW 5-15mph, Mix sun & clouds

Northing: 1120169.36

Easting: 921067.05

Surface Water Depth: 1.6 Ft

Mud Line: 361.4 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 15 Core Recovery Depth: 14 Water Elev: 363 Ft

Attempts: 1 Depth Units: Ft

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
7		OL-0897-02	3	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, trace organics, sulfur odor, (MARL).	Vibracore	
i.		OL-0897-03	14	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, trace organics, sulfur odor, (MARL).	Vibracore	
		OL-0897-04	0.6	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, trace organics, sulfur odor, (MARL).	Vibracore	Silt
10 —		OL-0897-05	1.3	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, trace organics, sulfur odor, (MARL).	Vibracore	
+		OL-0897-06	5.3	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace clay, trace shells, trace organics, sulfur odor, (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20162

Date: 08/18/2009

Weather: High 80s, Winds 10-20mph, cloudy. T-storms

Northing: 1120164.11 Easting: 921113.26

Logging Company: PARSONS

Driller: Anchor QEA

Water Elev: 363.3 Ft

Mud Line: 360.3 Ft

Geologist: XIAODONG HUANG

Attempts: 1 Depth Units: Ft

Surface Water Depth: 3 Ft

Penetration Depth: 15 Core Recovery Depth: 12.5

Depth	8	Sample	PID	USCS	27 27 27	Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0896-02	0.7	ML	0 to 6 inches is wet, very soft, black, SILT, trace organics, some cemented chunks, petroleum-like odor (ML). Rest of core is wet, very loose, dark gray and light brown, fine to medium SAND, trace silt, little shells, cementation throughout, sulfur odor, (MARL).	Vibracore -	Silt Marl
		OL-0896-03	0.3	SOLW	0 to 8 inches is wet, very soft, greenish gray to light gray, silt-like grains, slight mothball odor (SOLW). 8 to 12 inches is wet, very loose, green-gray, fine to medium SAND, little shells, petroleum-like odor, (MARL).	Vibracore	Solvay Waste
İ		OL-0896-04	0.7	SW	0 to 8 inches is wet, very loose, green-gray, fine to medium SAND, little oncolites, trace shells, slight petroleum-like odor, (MARL). 8 to 12 inches is wet, medium stiff, gray, silt-like grains, some cementation (SOLW).	Vibracore	Marl
	N	OL-0896-06	0.3	SOLW	0 to 4 inches is wet, medium stiff, dark gray, silt-like grains. 4 to 9 inches is wet, very soft, gray, silt-like grains, trace fine sand. 9 to 12 inches is wet, very soft, black, silt-like grains, some cemented chunks, slight petroleum-like.	Vibracore	
ŧ		OL-0896-07	0.5	SOLW	0 to 7 inches is wet, very soft, black to dark gray, silt-like grains, some cemented chunks. Rest of core is wet, medium stiff, grayish-white, silt-like grains, some cementations, slight mothball odor.	Vibracore	
5 —		OL-0896-08	0.3	SOLW	Wet, medium stiff, white, silt-like grains, some cementations, mothball odor.	Vibracore	
-		OL-0896-09	0.5	SOLW	Wet, very soft, white, silt-like grains, 3 layers of greenish-gray silt-like grains and fine sand at 2, 4 and 6 inches, each is about 0.25 inches thick, slight mothball odor.	Vibracore	
+		OL-0896-10	0.6	SOLW	Wet, very loose, white and greenish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore	Solvay Waste
Ť		OL-0896-11	0.5	SOLW	0 to 8 inches is wet, very soft, white and greenish white, laminated, silt-like grains. Rest of core is wet, very soft, greenish-white, silt-like grains, mothball odor.	Vibracore	
+		OL-0896-12	0.6	SOLW	0 to 7 inches is wet, very soft, white, silt-like grains, some cementation. 7 to 9 inches is wet, very soft, green and black, silt-like grains. Rest of core is wet, very soft, greenish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore	
10 +		OL-0896-13	0.4	SOLW	Wet, very soft, light gray and grayish-white, silt-like grains, mothball odor.	Vibracore	
†		OL-0896-14	0.3	SOLW	Wet, soft, greenish-white, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20163

Date: 08/10/2009

Weather: Low 80s, Light Winds, Cloudy. T-storms

Northing: 1120057.72 Easting: 921189.92

Logging Company: PARSONS

Driller: Anchor QEA

Water Elev: 363 Ft

Mud Line: 359.5 Ft

Geologist: XIAODONG HUANG

Attempts: 1 Depth Units: Ft

Surface Water Depth: 3.5 Ft

Penetration Depth: 14 Core Recovery Depth: 11.5

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratun
)		OL-0874-01	0	ML	Wet, very soft, gray and black, SILT, trace fine sand, trace organics, organic odor.	Vibracore	
-		OL-0874-02	0	ML	Wet, very soft, black, SILT, trace clay, trace organics, organic odor.	Vibracore	
5 —		OL-0874-03	0	ML	Wet, very soft, gray and black, SILT, trace clay, trace organics, petroleum-like odor.	Vibracore	
		OL-0874-05	0	ML	Wet, very soft, gray and black, SILT, trace clay, trace fine gravel, trace organics, petroleum-like odor.	Vibracore	Silt
		OL-0874-06	0	ML	Wet, very soft, gray and black, SILT, trace fine sand, trace clay, trace organics, petroleum-like odor.	Vibracore	
	OL-0874-07	0	ML	Wet, very soft, gray and black, SILT, trace fine to medium sand, trace clay, trace organics, petroleum-like odor.	Vibracore		
		OL-0874-08	0.2	ML	0-8 inches is wet, very soft, gray and black, SILT, trace fine gravel, trace fine to medium sand, trace organics, petroleum like odor (ML). Rest of core is wet, very soft, brown and black laminated SILT and Clay (ML/CL).	Vibracore	
+		OL-0874-09	0	ML/CL	Wet, very soft, brown and black laminated, SILT and Clay, trace organics, slight petroleum-like odor.	Vibracore	Silt and C
		OL-0874-10	0.7	ML	0-6 inches is wet, very soft, brown and black, SILT and Clay, slight petroleum-like odor(ML/CL). Rest of core is wet very soft black SILT, some clay, petroleum-like odor, trace organics (ML).	Vibracore	
10 —		OL-0874-11	7.3	ML	Wet, soft, black, SILT, some clay, petroleum-like odor.	Vibracore	
		OL-0874-12	1.3	ML	0-9 inches is wet, soft, black, SILT, some clay, petroleum-like odor. Rest of core is wet, very soft, brown and black SILT, little fine gravel, trace fine to medium sand, trace clay.	Vibracore	Silt
1.5		OL-0874-13	0	ML	Moist, stiff, red-brown and gray, SILT, little fine gravel, little clay, trace organics.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20164

Date: 08/10/2009

Weather: Low 80s, Light Winds, Cloudy. T-storms

Northing: 1120053.6 Easting: 921300.73

Logging Company: PARSONS

Driller: Anchor QEA

Water Elev: 363 Ft

Mud Line: 351.6 Ft

Geologist: XIAODONG HUANG

Attempts: 2 Depth Units: Ft

Surface Water Depth: 11.4 Ft

Penetration Depth: 9.4

Core Recovery Depth: 8.2

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0874-14	0	ML	Wet, very soft, black SILT, trace fine gravel, trace organics, trace fine to medium sand, petroleum-like odor.	Vibracore	
İ		OL-0874-15	0	SP	Wet, loose, black, fine SAND, trace silt,petroleum-like odor.	Vibracore	Silt and Sand
-		OL-0874-16	0.2	ML	Wet, soft, black, SILT and fine Sand, trace organics, petroleum-like odor (ML/SM).	Vibracore	
		OL-0874-17	0	ML	Wet, very soft, black, SILT, trace fine to coarse sand, petroleum-like odor trace organics.	Vibracore	
		OL-087 4 -18	0	CL	0-4 inches is wet, very soft, black, SILT, trace fine gravel, trace fine to coarse sand, petroleum-like odor. Rest of core is moist, medium stiff, brown and black, CLAY, little fine gravel, trace fine to coarse sand.	Vibracore	
5 —		OL-087 4 -19	0	ML	Wet, very soft, dark brown, SILT, trace fine gravel, trace fine to coarse sand, trace clay, slight petroleum-like odor.	Vibracore	Silt
		OL-0874-20	0	ML	Wet, soft, dark-brown, SILT, some fine gravel, little fine to coarse sand, slight petroleum-like odor.	Vibracore	
		OL-0874-21	0.2	ML	Wet, very soft, brown, SILT, some fine gravel, trace coarse sand, trace clay, slight petroleum-like odor.	Vibracore	
		OL-0876-07	0	SW	Wet, very dense, black fine to coarse SAND, little fine gravel.	2SS-140H	Sand

after 8.2 ft.

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20166

Date: 07/28/2009

Weather: Hig 80s, Winds SW 10-20mph, sunny

Northing: 1119815.17

Easting: 921457.21

Mud Line: 358.6 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: H SLETTEN

Water Elev: 363.3 Ft

Attempts: 1

Depth Units: Ft

Surface	Water	Depth: 4.7 Ft	Pe	netration	Depth: 9 Core Recovery Depth: 6.9		
Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0847-14	0.9	ML	Wet, very soft, black, SILT, little organics (roots 0-2 inches), trace zebra mussels (0-6 inches), trace fine sand, trace fine subangular gravel, petroleum-like odor.	Vibracore	
		OL-0847-15	2.2	ML	Wet, soft, black, SILT, trace to little fine sand, trace subangular gravel, petroleum-like odor. Seam of wet, loose, black, fine SAND and silt from 8-10 inches.	Vibracore	Silt
		OL-0847-16	0.6	ML	Wet, soft, dark gray, SILT, trace fine sand, trace oncolites, trace medium to coarse subangular gravel, trace shells, trace organics (roots), petroleum-like odor. (MARL).	Vibracore	
		OL-0847-17	3.1	ML	Wet, soft, gray, SILT, little to some fine sand, trace shell, sulfur odor, some oncolites in top 9 inches, (MARL).	Vibracore	
		OL-0847-18	1.3	ML	Wet, soft, gray, SILT, trace shells, trace fine sand, sulfur odor (MARL).	Vibracore	Marl
5 +		OL-0847-19	1.7	ML	Wet, soft, gray, SILT, little grading to some fine sand, trace shells, sulfur odor, trace oncolites in top 4 inches, some oncolites from 4-12 inches (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20167

Date: 07/27/2009

Weather: High 80s, Winds W-SW 5-10mph. Cloudy

Northing: 1119689.38

Easting: 921386.81

Mud Line: 361.1 Ft

Surface Water Depth: 2.2 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: HILLARY SLETTEN

Penetration Depth: 10

Water Elev: 363.3 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 8.3

Depth g	Sample	PID	USCS		Sample	
Depth S	ID	(ppm)	Code	Soil Description	Method	Stratum
0	OL-0847-08	5.8	ML	Wet, very soft, black, SILT, little fine sand, trace clay in bottom 3 inches, organics in bottom 1 inch, petroleum-like odor.	Vibracore	Silt
#	OL-0847-09	3.3	ML-SM	0-6 inches: Wet, soft, black, SILT, some find sand, trace fine angular gravel and slag material, petroleum-like odor (ML); Rest of core is wet, loose, dark gray, fine SAND and Silt, trace shells, slight petroleum-like odor, slight sulfur odor (MARL) (SM).	Vibracore	
	OL-0847-10	2.3	SM	Wet, loose, gray, fine to medium SAND, little silt, little oncolites, little shells, trace ceramic in top 1 inch, slight sulfur odor (MARL).	Vibracore	
	OL-0847-11	1.3	SM	Wet, loose, gray, fine to medium SAND, some silt, trace shells, some oncolites, (MARL).	Vibracore	Marl
	OL-0847-12	1.7	ML	Wet, very soft, gray, SILT, little fine to medium sand, trace shells, slight sulfur odor some oncolites in top 8 inches, (MARL).	Vibracore	
5 —	OL-0847-13	1.2	ML	Wet, soft, gray, SILT, little fine sand, trace to little clay, trace shells (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20168

Date: 07/28/2009

Weather: High 80s, Winds SW 10-20mph, sunny

Northing: 1119536.0

Easting: 921443.7

Mud Line: 361.8 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: D Burkert

Water Elev: 363.2 Ft

Attempts: 1

Depth Units: Ft

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0850-20	0.7	SM	Wet, medium dense, black, fine to medium SAND, some fine sub-round gravel in top 5 inches, little silt, trace organics (peat-like), petroleum-like odor in top 5 inches, trace shells, slight sulfur odor oncolites in bottom 7 inches (MARL).	Vibracore	
		OL-0851-01	0.7	SM	Wet, medium dense, gray, fine to medium SAND, some silt, little shells, some oncolites, sulfur odor (MARL).	Vibracore	
-		OL-0851-02	0.8	SM	Wet, loose, gray, fine to medium SAND, some silt, trace shell, some oncolites, sulfur odor (MARL).	Vibracore	
	Ĭ	OL-0851-03	1.9	SM	Wet, loose, gray, fine to medium SAND, some silt, little shell, some oncolites, sulfur odor (MARL).	Vibracore	Mari
		OL-0851-04	1.2	SM	Top 9 inches is wet, loose, gray, fine SAND, some silt, some oncolites, trace shells, sulfur odor (SM). Rest of core is wet, soft, gray, SILT, little fine sand, trace shells, sulfur odor (Marl)(ML).	Vibracore	
5		OL-0851-05	1.3	ML	Wet, soft, gray, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20169

Date: 07/28/2009

Weather: High 80s, Winds SW 10-20mph, sunny

Northing: 1119460.67

Easting: 921532.46

Mud Line: 362 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 9

Water Elev: 363.2 Ft

Attempts: 1

Depth Units: Ft

Surface Water Depth: 1.2 Ft Core Recovery Depth: 7.4

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0850-14	1.9	sw	0-6 inches: Wet, medium dense to very dense, SILT, trace to little fine sand, some slag, little ceramic fragments, trace organics (roots), strong petroleum-like odor (ML): Wet, loose, gray-brown, fine to medium SAND, little silt, little shells, slight petroleum-like odor, slight sulfur odor (MARL).	Vibracore -	Silt
		OL-0850-15	2.7	SM	0-5 inches: Wet, loose, dark gray, fine to medium SAND, little silt, some shells, trace oncolites, trace organics (roots), sulfur odor (MARL) (SW); Rest of core is wet, loose, gray, fine SAND and Silt, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	
-		OL-0850-16	13.5	ML-SM	Wet, soft, gray, SILT, some fine to medium sand, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	
Ī	Ĭ	OL-0850-17	14.8	ML-SM	Wet, soft, gray, SILT, some fine to medium sand, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	Marl
+		OL-0850-18	DL-0850-18 3.9	ML	0-5 inches: Wet, soft, gray, SILT, some fine to medium sand, little oncolites, trace shells, sulfur odor (MARL) (ML/SM); Rest of core is wet, soft, gray, SILT, little fine to medium sand, little shells, sulfur odor (MARL) (ML).	Vibracore	
5 +		OL-0850-19	1.7	ML	Wet, soft, gray, SILT, little fine sand, little shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20170

Date: 07/28/2009

Weather: High 80s, Winds SW-10-20mph, sunny

Northing: 1119362.11

Easting: 921648.82 Mud Line: 361.6 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Water Elev: 363.3 Ft

Attempts: 1

Depth Units: Ft

Depth Ft	Recov	Sample ID	PID (ppm)	USCS	Soil Description	Sample Method	Stratum
0	OL-0848-13	86	ML	0-3 inches: Wet, soft, black, SILT, trace fine sand, petroleum-like odor; Rest of core is wet, soft, gray, SILT, trace fine sand, some oncolites, trace shells, petroleum-like odor, slight sulfur odor (MARL).	Vibracore		
		OL-0848-14	5.3	ML	Wet, soft, gray, SILT, little fine sand, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	
-		OL-0848-15	13.4	ML	Wet, soft, gray, SILT, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	
	ľ	OL-0848-16	10.1	ML	Wet, soft, gray, SILT, little fine sand, some oncolites in top 6 inches, trace shells, sulfur odor (MARL).	Vibracore	Mari
-		OL-0848-17	8.7	ML	Wet, soft, gray, SILT, little fine sand, little oncolites from 10-12 inches, trace shells, sulfur odor (MARL).	Vibracore	
5 +		OL-0848-18	2.1	ML	Wet, soft, gray, SILT, some fine sand, some oncolites, trace shells, trace clay, sulfur odor (MARL).	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 7.6

Boring No: OL-VC-20171

Date: 07/08/2009

Weather: High 60s, winds 5-10mph W-NW, T-showers

Northing: 1119891.53

Easting: 921647.57

Mud Line: 335.74 Ft Surface Water Depth: 27.9 Ft Driller: Anchor QEA

Logging Company: Parsons Geologist: H. SLETTEN

Penetration Depth: 9.5

Water Elev: 363.64 Ft

Attempts: 1

Depth Units: Ft

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0829-01	1.4	ML	Wet, very soft, black, SILT, strong sulfur odor.	Vibracore	
		OL-0829-02	1.3	ML	Wet, very soft, black, SILT, strong sulfur odor.	Vibracore	
+		OL-0829-03	0.3	ML	Wet, very soft, black, SILT, trace fine sand, strong sulfur odor.	Vibracore	Silt
		OL-0829-04	1.1	ML	Wet, very soft, black, SILT, trace fine sand, trace organics (root matter), sulfur and slight petroleum-like odor.	Vibracore	
		OL-0829-05	0.7	ML	0 to 6 inches is wet, very soft, black, SILT, little fine sand, trace organics (root matter), sulfur and slight petroleum-like odor (ML). 6 to 7 inches is wet, loose, gray, fine SAND, some silt, sulfur odor. Rest of core is wet, very soft, black and dark gray, SILT, little fine sand, trace shells, sulfur odor. (MARL).	Vibracore	
5 —		OL-0829-06	4.4	ML	Wet, soft, grayish brown, SILT, little shells, sulfur odor (MARL).	Vibracore	Marl

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20172

Date: 07/08/2009

Weather: High 60s, winds 5-10mph W-NW, cloudy

Core Recovery Depth: 7.5

Northing: 1119709.51

Easting: 921926.50

Mud Line: 335.14 Ft

Surface Water Depth: 28.5 Ft

Driller: Anchor QEA Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 10.5

Water Elev: 363.64 Ft

Attempts: 1

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0829-07	0.5	ML	Wet, very soft, dark gray to black, SILT, slight petroleum-like odor.	Vibracore	
		OL-0829-08	0.5	ML	Wet, very soft, black, SILT, slight petroleum-like odor.	Vibracore	
		OL-0829-09	4.1	ML	Wet, very soft, black, SILT, trace fine sand, slight petroleum and ammonium-like odor.	Vibracore	Silt
	Ĭ	OL-0829-10	6.1	ML	Wet, very soft, black to dark gray, SILT, petroleum-like and slight sulfur odor.	Vibracore	
-		OL-0829-11	9.1	ML	Wet, soft, grayish brown, SILT, little shells, sulfur odor (MARL).	Vibracore	
5 —		OL-0829-12	2.9	ML	Wet, soft, grayish brown, SILT, little shells, sulfur odor (MARL).	Vibracore	Marl

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20172-A

Date: 09/22/2009

Weather: Low 70s, Winds S 5-10mph, cloudy, showers

Water Elev: 363 Ft

Attempts: 1

Depth Units:

Northing: 1119706.14

Easting: 921922.89 Mud Line: 335 Ft

Surface Water Depth: 28.1 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Penetration Depth: 4.00

Core Recovery Depth: 2.30

Depth	Recov	Sample ID	PID (nnm)	USCS Code	Soil Description	Sample Method	Stratum
0	Œ.	OL-1024-10	(ppm)	ML	Wet, very soft, gray-brown, SILT, trace fine sand, trace organics.	Vibracore	
		OL-1024-11	0	ML	Wet, very soft, gray-brown to black, SILT, trace fine sand, trace organics, slight petroleum-like odor.	Vibracore	Silt

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20173

Date: 07/08/2009

Weather: High 60s, winds 5-10mph W-NW, T-showers

Northing: 1119545.19 Easting: 921975.88 Driller: Anchor QEA Logging Company: Parsons Water Elev: 363.64 Ft

Mud Line: 346.64 Ft

Geologist: H.SLETTEN

Attempts: 3
Depth Units: Ft

Surface Water Depth: 17 Ft

Penetration Depth: 10

Core Recovery Depth: 5.1

Depth	ò	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0829-13	0.5	sw	0 to 6 inches is wet, loose, dark gray, fine to medium SAND, trace shells, little organics, zebra mussels, slight petroleum-like odor (SW). Rest of core is wet loose, grayish brown, fine to medium SAND, trace shells, sulfur odor (Marl).	Vibracore	Sand
		OL-0829-14	0.7	SM	Wet, loose, grayish brown, fine to medium SAND, little silt, some shells, sulfur odor (Marl).	Vibracore	
		OL-0829-15	0.9	SM	Wet, loose, grayish brown, fine to medium SAND, little silt, some shells, slight sulfur odor (Marl).	Vibracore	Marl
		OL-0829-16	1.3	SM	Wet, loose, grayish brown, fine to medium SAND, little silt, some shells, slight sulfur odor (Marl).	Vibracore	
5.1		OL-0829-17	1.1	SM	Wet, loose, grayish brown, fine to medium SAND, some silt, some shells, slight sulfur odor (Marl).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 6.4

Boring No: OL-VC-20174

Date: 07/27/2009

Weather: High 80s, Winds W-SW 5-10mph, cloudy.

Northing: 1119396.39

Easting: 922234.70

Surface Water Depth: 21.6 Ft

Mud Line: 341.7 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 9

Water Elev: 363.3 Ft

Attempts: 1

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0845-20	28.1	SM	0-10 inches: Wet, loose, black, fine SAND, some silt, trace shell, sulfur odor (SM); Rest of core is wet, very soft, black, SILT, little fine sand, sulfur odor (ML).	Vibracore	Marl
		OL-0846-01	7.2	ML	Wet, very soft, black, SILT, trace fine sand, sulfur odor, petroleum-like odor.	Vibracore	Silt
		OL-0846-02	7.5	ML	Wet, very soft, black, SILT, petroleum-like odor, fine sand seam from 6 to 7 inches.	Vibracore	J.K
	ľ	OL-0846-03	25.8	SM	0 -9 inches: Wet, loose, dark gray, fine SAND, some silt, petroleum-like odor (SM); Rest of core is wet, very soft, black, SILT, trace fine sand, petroleum-like odor (ML).	Vibracore	Fine Sand
		OL-0846-04	8.7	ML	Wet, very soft, black, SILT, trace fine sand, petroleum-like odor, fine sand seam from 6 to 8 inches, loose.	Vibracore	Silt
5 +		OL-0846-05	9.4	ML	Wet, very soft, black grading to dark gray, SILT, trace fine sand, petroleum-like odor.	Vibracore	J.A

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20175

Date: 07/08/2009

Weather: High 60s, winds 5-10mph W-NW, T-showers

Northing: 1119708.84

Easting: 921602.60

Mud Line: 357.94 Ft

Driller: Anchor QEA

Logging Company: Parsons

Geologist: H.SLETTEN

Surface Water Depth: 5.7 Ft Penetration D

Water Elev: 363.64 Ft

Attempts: 1

Penetration Depth: 9	Core Recovery Depth: 6
----------------------	------------------------

Depth	00	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0829-18	0.8	ML	Wet, soft, gray, SILT, little to some fine to medium sand, little shells, sulfur odor (Marl).	Vibracore	
		OL-0829-19	0.9	ML	to 6 inches is wet, soft, gray, SILT, little to some fine to medium sand, little shells, sulfur odor (Marl). Rest of core is wet, loose, gray, fine to medium SAND, some silt, trace shells, sulfur odor (Marl).	Vibracore	
-		OL-0830-01	0.7	SM	O to 5 inches is wet, loose, gray, fine to medium SAND, some silt, little oncolites, trace shells, sulfur odor (Marl). Rest of core is wet, soft, gray, SILT, little fine to medium SAND, trace shells, sulfur odor (Marl).	Vibracore	
Ť	ľ	OL-0830-02	4.3	ML	Wet, soft, gray, SILT, some fine sand, little shells, sulfur odor (Marl).	Vibracore	Marl
		OL-0830-03	0.9	ML	Wet, soft, gray, SILT, little to some fine sand, trace shells, sulfur odor (Marl).	Vibracore	
5 —		OL-0830-04	0.6	ML	Wet, soft, gray, SILT, little to some fine to medium sand, trace clay, trace shells, sulfur odor (Marl).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20176

Date: 07/08/2009

Weather: High 60s, winds 5-10mph W-NW, T-showers

Northing: 1119613.46 Easting: 921646.81 Driller: Anchor QEA

Water Elev: 363.64 Ft

Mud Line: 359.24 Ft

Logging Company: Parsons Geologist: H.SLETTEN Attempts: 1
Depth Units: Ft

Surface Water Depth: 4.4 Ft

Penetration Depth: 10

Core Recovery Depth: 10

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0830-05	2.9	SM	0 to 1 inch is wet, loose, black, fine to medium SAND, some silt, some vegatation, little zebra mussels. Rest of core is wet, loose, gray, fine to medium SAND, some silt, little oncolites, little shells, sulfur odor (Marl).	Vibracore	Sand
		OL-0830-06	1.3	SM	Wet, loose, gray, fine to medium SAND, some silt, little oncolites, trace shells, sulfur odor (Marl).	Vibracore	
+		OL-0830-07	5	SM	Wet, loose, gray, fine to medium SAND, some silt, little oncolites, trace shells, sulfur odor (Marl).	Vibracore	
		OL-0830-08	1.8	SM	Wet, soft, gray, SILT, little to some fine to medium sand, trace shells, sulfur odor (Marl).	Vibracore	Marl
		OL-0830-09	0.9	ML/SM	Wet, loose, gray, SILT, little to some fine to medium SAND, trace clay in bottom 4 inches, trace shells, sulfur odor (Marl).	Vibracore	
5 +		OL-0830-11	1.4	SM	O to 8 inches is wet, loose, gray, fine to medium SAND, some silt, little to some oncolites, little shells, sulfur odor. Rest of core is wet, soft, gray, SILT, little fine sand, trace clay, trace shells, sulfur odor (Marl).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 7.2

Boring No: OL-VC-20177

Date: 07/08/2009

Weather: High 60s, winds 5-10mph W-NW, T-storms

Northing: 1119542.52

Easting: 921763.21

Mud Line: 358.9 Ft

Surface Water Depth: 4.5 Ft

Driller: Anchor QEA Logging Company: Parsons

Geologist: H.SLETTEN

Penetration Depth: 10

Water Elev: 363.64 Ft

Attempts: 1

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0830-12	0.7	ML	Wet, soft, gray, SILT, some fine to medium sand, little shells, little oncolites, sulfur odor, zebra mussels and vegatation in top 2 inches (Marl).	Vibracore	
		OL-0830-13	3.8	SM	Wet, loose, gray, fine to medium SAND, some silt, some oncolites, trace shells, sulfur odor (Marl).	Vibracore	
		OL-0830-14	1.7	.SM	Wet, loose, gray, fine to medium SAND, some silt, some oncolites, trace shells, sulfur odor (Marl).	Vibracore	
1		OL-0830-15	2	ML	Wet, soft, gray, SILT, little to some fine to medium sand, trace oncolites, trace shells, sulfur odor (Marl).	Vibracore	Marl
+		OL-0830-16	1.4	ML	Wet, soft, gray, SILT, little fine to medium sand, trace shells, sulfur odor (Mari).	Vibracore	
5 —		OL-0830-17	1	ML	Wet, soft, gray, SILT, little to some fine sand, trace shells, sulfur odor (Marl).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20178

Date: 07/27/2009

Weather: High 80s, Winds W-SW 5-10mph, cloudy

Northing: 1119129.87

Easting: 922415.31 Mud Line: 343.8 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 9

Water Elev: 363.3 Ft

Attempts: 1

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0846-06	12.1	SM	0-9 inches: Wet, loose, dark gray, fine SAND, some silt, trace shells, petroleum-like odor (SM); Rest of core is wet, very soft, black, SILT, trace fine sand, trace clay, petroleum-like odor (ML).	Vibracore	Fine Sand
		OL-0846-07	66.8	ML	Wet, very soft, dark gray, SILT, trace fine sand, petroleum-like odor.	Vibracore	
+		OL-0846-08	62.4	ML	Wet, very soft, dark gray, SILT, trace fine sand, petroleum-like odor.	Vibracore	
	Ĭ	OL-0846-09	28.9	ML	Wet, very soft, dark gray to black, SILT, trace sand, petroleum-like odor.	Vibracore	Silt
		OL-0846-10	24.7	ML	Wet, very soft, dark gray to black, SILT, trace sand, petroleum-like odor.	Vibracore	
5 —		OL-0846-12	15.7	ML	Wet, very soft, black, SILT, trace organics (fine roots), color grades to dark gray at 10 inches, trace fine sand, petroleum-like odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20179

Date: 07/24/2009

Weather: High 70s, Winds 5-10mph, SE-SW, T-Storms

Northing: 1118822.37 Easting: 922484.74 Mud Line: -7 Ft Driller: Anchor QEA Logging Company: Parsons Geologist: H SLETTEN Water Elev: 0 Ft Attempts: 2 Depth Units: Ft

Surface Water Depth: 7 Ft

Penetration Depth: 10 Core R

Core Recovery Depth: 6.5

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0	+	OL-0845-01	0.7	SM	Wet, loose, black, fine SAND, little to some silt, petroleum-like odor.	Vibracore	Fine Sand
Ė		OL-0845-02	1.8	ML	0-2.5 inches: Wet, loose, black, fine SAND, little silt, petroleum-like odor (SM); Rest of core is wet, soft, black, SILT, trace fine sand, petroleum-like odor (ML)	Vibracore	
+		OL-0845-04	0.8	ML	Wet, soft, black, SILT, little to trace fine sand, petroleum-like odor	Vibracore	
		OL-0845-05	1.1	ML	Wet, soft, black, SILT, little to trace fine sand, organics from 3-5 inches (wood and root fragment), petroleum-like odor.	Vibracore	Silt
		OL-0845-06	1.5	ML	Wet, soft, black, SILT, trace fine sand, trace clay, petroleum-like odor.	Vibracore	
5 +		OL-0845-07	2.3	ML	Wet, soft, black, SILT, trace fine sand, trace clay, trace organics (root material), petroleum-like odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20180

Date: 07/24/2009

Weather: High 70s, winds 5-10mph SE-SW, T-storms

Northing: 1118731.78

Mud Line: 361.3 Ft

Easting: 922391.41

Surface Water Depth: 1.9 Ft

Driller: Anchor QEA

Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 10

Attempts: 1

Depth Units: Ft

Water Elev: 363.1 Ft

Core Recovery Depth: 9.4

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0843-20	2.1	SM	0-5 inches: Wet, loose, black, fine SAND, some silt, trace shells, little organics (root material), petroleum-like odor. Rest of core: wet, loose, gray to grayish-white, fine SAND, trace silt, little shells, sulfur odor (Marl).	Vibracore	
		OL-0844-01	6.1	SM	0-9 inches: Wet, loose, light gray, fine SAND, little to some silt, little shells, sulfur odor. Rest of core: wet, soft, gray, SILT, little to some fine sand, trace shells, sulfur odor (Marl).	Vibracore	
+		OL-0844-02	2.1	ML	Wet, soft, light gray, SILT, some fine sand, sulfur odor (Marl).	Vibracore	
		OL-0844-03 3.	3.6	ML	Wet, soft, light gray, SILT, some fine sand, trace shells, trace wood fragment, sulfur odor (Marl).	Vibracore	Marl
+		OL-0844-04	26.5	ML-SM	Wet, soft, light gray, SILT and fine Sand, little shells, sulfur odor (Marl).	Vibracore	
5 —		OL-0844-05	3.5	ML	Wet, soft, light gray, SILT, some fine sand, little shells, sulfur odor (Marl).	Vibracore	
6.0		OL-0844-05	3.5	IVIL		Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20181

Date: 07/24/2009

Weather: High 70s, Winds 5-10mph, SE-SW, T-Storms

Northing: 1119369.03 Easting: 921868.25 Mud Line: -2.5 Ft Driller: Anchor QEA Logging Company: PARSONS Geologist: H.SLETTEN

Attempts: 1
Depth Units: Ft

Water Elev: 0 Ft

Surface Water Depth: 2.5 Ft

Penetration Depth: 9.5

Core Recovery Depth: 6

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratun
0		OL-0845-14	1.1	SM	0-3 inches: Wet, loose, black, fine to medium SAND, some silt, some oncolites, little vegetation, little zebra mussels; Rest of core is wet, loose, light gray, fine to medium SAND, some silt, some oncolites, trace shells, sulfur odor, (MARL).	Vibracore	
		OL-0845-15	2.7	SM	Wet, loose, light gray, fine to medium SAND, some silt, some oncolites, sulfur odor (MARL).	Vibracore	
-		OL-0845-16	1.6	SM	Wet, loose, light gray, fine to medium SAND, some silt, some oncolites, sulfur odor (MARL).	Vibracore	
		OL-0845-17	2.1	SM	Wet, soft, light gray, SILT, some fine to medium sand, trace oncolites, sulfur odor (MARL).	Vibracore	Marl
_		OL-0845-18	2	ML	Wet, soft, light gray, SILT, some to little fine sand, trace shells, sulfur odor (MARL).	Vibracore	
5 —		OL-0845-19	2.6	SM	Wet, loose, light gray, fine to medium SAND, some silt, some oncolites, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20182

Date: 07/27/2009

Weather: High 80s, Winds W-SW 5-10mph, cloudy

Northing: 1119091.95

Easting: 922063.37 Mud Line: 360.6 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 9

Water Elev: 363.3 Ft

Attempts: 1

Depth Units: Ft

Surface Water Depth: 2.7 Ft Core Recovery Depth: 6.9

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0846-13	1.1	SP	0-3 inches: Wet, loose, dark gray, fine SAND, little silt, some oncolites, some vegetation, little zebra mussels. Rest of core is wet, loose, gray, fine SAND, little silt, trace shells.	Vibracore	
ŧ		OL-0846-14	1	SP	Wet, loose, light gray, fine to medium SAND, little silt, some oncolites, trace shells.	Vibracore	
+		OL-0846-15	1.5	ML	Wet, loose, light gray, SILT, some fine sand, some oncolites.	Vibracore	
	Ŷ	OL-0846-16	1.1	ML	Wet, soft, light gray, SILT, some fine sand, some oncolites, trace shells, slight sulfur odor (MARL).	Vibracore	Marl
-		OL-0846-17	1.2	ML	Wet, soft, light gray, SILT, little fine sand, trace clay, little shells, sulfur odor (MARL).	Vibracore	
6.0		OL-0846-18	1.9	ML/SM	0-6 inches: Wet, soft, light gray, SILT, little fine sand, trace clay, little shells, sulfur odor (MARL) (ML); Rest of core is wet, loose, fine SAND, some silt, some oncolites, trace shells, sulfur odor (MARL) (SM).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20183

Date: 07/24/2009

Weather: High 70s, Winds 5-10mph, SE-SW, T-Storms

Northing: 1119246.85 Easting: 922137.05 Mud Line: -3.8 Ft Driller: Anchor QEA Logging Company: PARSONS Geologist: H SLETTEN Water Elev: 0 Ft Attempts: 1

Depth Units: Ft

Surface Water Depth: 3.8 Ft

Penetration Depth: 9

Core Recovery Depth: 7

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0845-08	0.5	SM	Wet, loose, black (0-2 inches) to light gray, fine to medium SAND, little to some silt, some oncolites, trace organics in top 2 inches.	Vibracore	
ŧ		OL-0845-09	0.8	SM	Wet, loose, light gray, fine to medium SAND, some silt, some oncolites.	Vibracore	Fine-Medium San
1		OL-0845-10	1.1	SM	Wet, loose, light gray, fine to medium SAND, some silt, some oncolites.	Vibracore	
İ		OL-0845-11	1.5	ML	Wet, loose, light gray, SILT, some fine sand grading to little fine sand, trace shells, sulfur odor, (MARL).	Vibracore	
_		OL-0845-12	3.5	ML	Wet,very soft, light gray, SILT, some fine sand, trace shells, sulfur odor, (MARL).	Vibracore	Marl
5 —		OL-0845-13	1.5	ML	0-6 inches: Wet, soft, light gray, SILT, little fine sand, trace shells, sulfur odor (ML); Rest of core is wet, loose, fine to medium SAND, some silt, some oncolites, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20184

Date: 07/29/2009

Weather: Low 80s Winds SW 10-15mph, sunny

Water Elev: 363.1 Ft

Attempts: 1

Depth Units: Ft

Northing: 1120095.97

Easting: 921342.21 Mud Line: 343.2 Ft Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Surface Water Depth: 19.9 Ft Penetration Depth: 9.5

Core Recovery Depth: 5.3

00	Sample	PID	USCS		Sample	
Re	ID	(ppm)	Code	A Landau Company of the Company of t	Method	Stratum
	OL-0853-10	0.5	ML	Wet, very soft, black, SILT, petroleum-like odor.	Vibracore	
	OL-0853-11	0.8	ML	Wet, very soft, black, SILT, trace fine sand in bottom 2 inches, petroleum-like odor.	Vibracore	
	OL-0853-12	1.9	ML	Wet, very soft, black, SILT, little fine sand, petroleum-like odor.	Vibracore	Silt
	OL-0853-13	1.6	ML	Wet, soft, black, SILT, little fine sand, 1/4 to 1/2 inch thick rock/fill pieces throughout and a 2 inch rock/fill piece from 9.5 to 11.5 inches, petroleum-like odor.	Vibracore	
	OL-0853-14	0.9	ML	Wet, soft, black, SILT, little to some fine sand, hard rock/fill pieces from 7 to 13.5 inches, petroleum-like odor.	Vibracore	
	Recov	OL-0853-11 OL-0853-12 OL-0853-13	OL-0853-10 0.5 OL-0853-11 0.8 OL-0853-12 1.9	OL-0853-10	Wet, very soft, black, SILT, trace fine sand in bottom 2 inches, petroleum-like odor. OL-0853-11 O.8 ML Wet, very soft, black, SILT, trace fine sand in bottom 2 inches, petroleum-like odor. OL-0853-12 1.9 ML Wet, very soft, black, SILT, little fine sand, petroleum-like odor. OL-0853-13 1.6 ML Wet, soft, black, SILT, little fine sand, 1/4 to 1/2 inch thick rock/fill pieces throughout and a 2 inch rock/fill piece from 9.5 to 11.5 inches, petroleum-like odor. Wet, soft, black, SILT, little to some fine sand, hard rock/fill pieces from 7 to 13.5 inches, petroleum-like odor.	Wet, very soft, black, SILT, petroleum-like odor. Wet, very soft, black, SILT, trace fine sand in bottom 2 inches, petroleum-like odor. Wet, very soft, black, SILT, trace fine sand in bottom 2 inches, petroleum-like odor. Wet, very soft, black, SILT, little fine sand, petroleum-like odor. Wet, very soft, black, SILT, little fine sand, petroleum-like odor. Wet, very soft, black, SILT, little fine sand, petroleum-like odor. Wet, soft, black, SILT, little fine sand, 1/4 to 1/2 inch thick rock/fill piece from 9.5 to 11.5 inches, petroleum-like odor. Wet, soft, black, SILT, little to some fine sand, hard rock/fill pieces from 7 to 13.5 inches, petroleum-like odor.

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 10.3

Boring No: OL-VC-20185

Date: 07/24/2009

Weather: High 70s, winds 5-10mph SE-SW, T-storms

Northing: 1120020.66

Easting: 921449.80

Surface Water Depth: 23 Ft

Mud Line: 340.1 Ft

Driller: Anchor QEA Logging Company: Parsons

Geologist: H.SLETTEN

Penetration Depth: 11.5

Water Elev: 363.1 Ft

Attempts: 3

Depth	00	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0843-10	0.5	ML	Wet, very soft, black, SILT, trace fine sand, strong petroleum-like odor.	Vibracore	
Ī	П	OL-0843-11	1,2	ML	0-10 inches: wet, very soft, black, SILT, little fine sand. Rest of core: wet, loose, dark gray and red-brown, fine SAND, little fine sub-angular gravel, some silt, petroleum-like odor.	Vibracore	
-	П	OL-0843-12	0.6	ML	Wet, soft, brown, SILT, some fine angular to sub-rounded gravel, little fine-medium sand, petroleum-like odor.	Vibracore	Silt
		OL-0843-13	0.6	ML	Wet, medium-stiff, brown, SILT, some fine angular to sub-rounded gravel, little fine to medium sand, trace scrap metal, trace shells, slight ammonia-like odor. red-brown, clay-silt-gravel seam at 2-4 inches.	Vibracore	
İ	OL-0843-16	OL-0843-14	1.2	ML	Wet, soft, black, SILT, little fine angular to sub-angular gravel, some fine to medium sand, trace scrap metal, petroleum-like odor.	Vibracore	
5 —		OL-0843-15	2.6	ML	0-9 inches is wet, soft, black, SILT, little fine sand, little organics (root matter), red-brown, silt-clay-gravel seam at 2-4 inches. Rest of core, wet, soft, dark greenish gray, SILT, trace fine sand, trace shells petroleum-like odor (Marl).	Vibracore	
Ť		OL-08 4 3-16	1.2	ML	Wet, soft, black and dark greenish gray, SILT, little fine sand, trace fine angular gravel, trace shells, petroleum-like odor (Marl).	Vibracore	Marl
		OL-0843-17	1.1	ML	Wet, soft, dark gray, SILT, little clay, trace fine angular to sub-angular gravel, trace fine sand, petroleum-like odor (Mari).	Vibracore	
		OL-0843-18	0.8	ML	Wet, soft, dark brown, SILT, little clay, trace fine sand, piece of wood from 4-8 inches.	Vibracore	
10 —	. []	OL-0843-19	1.2	ML	Wet, soft, dark brown, SILT, some clay, trace fine sand, ammonia-like odor.	Vibracore	Silt

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20186

Date: 07/22/2009

Weather: Low 80s, winds 0-5 mph NW, sun and clouds

Northing: 1119964.92

Easting: 921512.44

Mud Line: 341.3 Ft

Surface Water Depth: 21.9 Ft

Driller: Anchor QEA

Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 9

Water Elev: 363.2 Ft

Attempts: 1

Depth Units: Ft Core Recovery Depth: 6

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0838-02	0.3	ML	Wet, very soft, black, SILT, little fine sand, gravel and fine sand in bottom 2 inches, petroleum-like odor.	Vibracore	
		OL-0838-03	0.8	ML	Wet, medium-stiff, brown, SILT, little to some fine sand, trace clay, little fine angular to sub-angular gravel, slight petroleum-like odor.	Vibracore	
		OL-0838-04	2.2	ML	0-7 inches is wet, soft, brown, SILT, little fine sand, trace clay, little fine angular to sub-angular gravel. Rest of core is wet, soft, black, SILT, little fine sand, trace fine angular to sub-angular gravel, petroleum-like odor (ML).	Vibracore	Silt
-	Ŷ	OL-0838-05	0.7	SM	0-6 inches is wet,loose, black, fine to medium SAND, little to some silt, little fine angular gravel, trace scrap metal, petroleum-like odor (SM). Rest of core is wet, loose, grayish-brown, fine to medium SAND, little shells, slight petroleum-like odor and sulfur odor,(SW).	Vibracore	
	-	OL-0838-06	0.7	ML	0-5 inches is wet, loose, dark gray, fine to medium SAND, little silt, little shells, sulfur odor, scrap metal at 1-2 inches. Rest of core is wet, soft, dark greenish gray, SILT, little fine sand, trace clay, little shells, sulfur odor (Marl).	Vibracore	
5 —		OL-0838-07	2	ML	Wet, soft, dark greenish gray, SILT, some fine sand, little clay, black band from 5-6 inches, little shells, sulfur odor (Marl).	Vibracore	Marl

Page 1 of 2

Driller: Anchor QEA



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20187

Date: 08/28/2009

Weather: High 60s, Winds NE 5-10mph, mix sun&clouds

Northing: 1120099.53 Easting: 921199.26 Mud Line: 359.03 Ft

Logging Company: PARSONS Geologist: XIAODONG HUANG

Attempts: 2 Depth Units: Ft

Water Elev: NA

Surface Water Depth: 4.0 Ft

Penetration Depth: 12.00 Core Recovery Depth: 9.70

ö	Sample	PID	USCS		Sample	
Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
	OL-1018-01	0.1	ML	Wet, very soft, dark gray, SILT, trace fine sand, trace fine gravel, trace organics, organic odor.	Vibracore	
	OL-1018-02	0	ML	Wet, very soft, dark gray, SILT, trace fine sand, trace fine gravel, trace organics, organic odor.	Vibracore	
	OL-1018-03	0	ML	Wet, very soft, dark gray, SILT, trace fine sand, trace fine gravel, trace organics, organic odor.	Vibracore	Silt
	OL-1018-04	0	ML	Wet, very soft, dark gray, SILT, trace fine sand, trace fine gravel, trace organics, organic odor.	Vibracore	
	OL-1018-05	0	SOLW	Wet, very soft, dark gray, silt-like grains, trace fine sand, slight mothball and petroleum-like odors.	Vibracore	
	OL-1018-06	0	SOLW	Wet, very soft, dark gray, silt-like grains, trace fine sand, slight mothball and petroleum-like odors.	Vibracore	Solvay Waste
	OL-1018-07	0.1	ML	Wet, very soft, gray and black, SILT, trace fine sand, trace organics, organic odor.	Vibracore	
	OL-1018-08	0.2	ML	Wet, very soft, dark gray and black, SILT, trace fine sand, trace clay, trace organics, petroleum-like odor.	Vibracore	
	OL-1018-09	0.2	ML	Wet, very soft, dark gray and black, SILT, trace fine sand, cemented chunks less than 0.5 inches in diameter throughout, petroleum-like odor.	Vibracore	Silt
	OL-1018-10	0.1	ML	Wet, very soft, dark gray and black, SILT, trace fine sand, trace organics, cemented chunks less than 0.5 inches in diameter throughout, petroleum-like odor.	Vibracore	
		OL-1018-01 OL-1018-02 OL-1018-03 OL-1018-04 OL-1018-05 OL-1018-06 OL-1018-07 OL-1018-09	OL-1018-01	OL-1018-01 0.1 ML OL-1018-02 0 ML OL-1018-03 0 ML OL-1018-04 0 ML OL-1018-05 0 SOLW OL-1018-06 0 SOLW OL-1018-07 0.1 ML OL-1018-08 0.2 ML	OL-1018-01 OL-1018-02 OL-1018-03 OL-1018-03 OL-1018-04 OL-1018-05 OL-1018-05 OL-1018-06 OL-1018-06 OL-1018-07 OL-1018-07 OL-1018-08 OL-1018-09 OL-101	OL-1018-01 OL-1018-02 OL-1018-02 OL-1018-03 OL-1018-03 OL-1018-04 OL-1018-04 OL-1018-05 OL-1018-05 OL-1018-06 OL-1018-06 OL-1018-07 OL-1018-07 OL-1018-07 OL-1018-09 OL-101

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20187

Date: 08/28/2009

Weather: High 60s, Winds NE 5-10mph, mix sun&clouds

Water Elev: NA

Depth Units: Ft

Attempts: 2

Northing: 1120099.53

Easting: 921199.26

Mud Line: 359.03 Ft

Surface Water Depth: 4.0 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12.00

Core Recovery Depth: 9.70

Sample	PID	USCS		Sample	
ID ID	(ppm)	Code		Method	Stratum
OL-1018-11	0.2	ML	Wet, very soft, dark gray and black, SILT, trace fine to medium sand, trace organics, petroleum-like odor.	Vibracore	
OL-1018-12	0.3	ML	Wet, very soft, dark gray and black, SILT, trace fine to medium sand, trace clay, petroleum-like odor.	Vibracore	
					Silt
OL-1018-13	0.2	ML	Wet, very soft, dark gray, SILT, trace fine sand, little clay, trace organics, petroleum-like odor.	Vibracore	
OL-1018-14	0.3	ML	Moist, soft, black and dark gray, SILT and Clay, strong petroleum-like odor.	Vibracore	Silt and Cla
	OL-1018-11 OL-1018-12 OL-1018-13	OL-1018-11 0.2 OL-1018-12 0.3 OL-1018-13 0.2	OL-1018-11	OL-1018-11 OL-1018-12 OL-1018-13 OL-101	OL-1018-11 OL-1018-11 OL-1018-12 OL-1018-13 OL-1018-13 OL-1018-13 OL-1018-13 OL-1018-16 ML Wet, very soft, dark gray and black, SILT, trace fine to medium sand, trace clay, petroleum-like odor. Vibracore Vibracore Vibracore Vibracore Vibracore ML Wet, very soft, dark gray, SILT, trace fine sand, little clay, trace organics, petroleum-like odor. Vibracore

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20188

Date: 08/19/2009

Weather: Low 80s, Winds N-NW 5-10mph, sun&clouds

Water Elev: NA

Depth Units: Ft

Attempts: 2

Northing: 1119763.28 Easting: 921414.56 Mud Line: 360.73 ft

Driller: Anchor QEA Logging Company: PARSONS Geologist: XIAODONG HUANG

Depth	ó	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
		OL-0899-01		ML	Wet, very soft, black, SiLT, some fine to medium sand, little organics, petroleum-like odor.	Vibracore	
		OL-0899-02		ML	Wet, very soft, black, SILT, trace fine gravel, trace fine to medium sand, trace organics, petroleum-like odor.	Vibracore	Cit
		OL-0899-03		ML	Wet, very soft, black, SILT, trace fine gravel, trace fine to medium sand, trace organics, petroleum-like odor.	Vibracore	Silt
		OL-0899-04		ML	Wet, very soft, black, SILT, trace fine gravel, trace fine to medium sand, trace organics, petroleum-like odor.	Vibracore	
		OL-0899-05		sw	Wet, very loose, black, fine to medium SAND, trace silt, trace organics, trace shells, petroleum-like odor.	Vibracore	Sand
		OL-0899-06		sw	Wet, very loose, black, fine to medium SAND, trace silt, trace organics, trace shells, petroleum-like odor.	Vibracore	Cana
		OL-0899-07		ML	Wet, very soft, black, SILT, trace fine sand, petroleum-like odor.	Vibracore	
		OL-0899-08			Wet, very soft, black, SILT, trace fine gravel, trace fine sand, trace organics, petroleum-like odor.	Vibracore	Silt
		OL-0899-09		sw	Wet, very loose, green-grey, fine to medium SAND, trace silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-0899-10		ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace oncolites, trace shells, sulfur odor (MARL).	Vibracore	Marl

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20188

Date: 08/19/2009

Weather: Low 80s, Winds N-NW 5-10mph, sun&clouds

Northing: 1119763.28 Easting: 921414.56 Driller: Anchor QEA

Water Elev: NA Attempts: 2

Mud Line: 360.73 ft

Logging Company: PARSONS Geologist: XIAODONG HUANG

Depth Units: Ft

Surface Water Depth: 2.2 ft

Penetration Depth: 12.5

Core Recovery Depth: 10.0

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
5		OL-0899-11		sw	Wet, very loose, light brown, fine to medium SAND, trace silt, some oncolites, sulfur odor (MARL).	Vibracore	
		OL-0899-12		ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		1					Marl
		OL-0899-13		ML	Wet, very soft, light brown, SILT, trace fine sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0899-14		ML	Wet, very soft, light brown, SILT, little fine to medium sand, little shells, sulfur odor (MARL).	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20189

Date: 08/20/2009

Weather: High 80s S-SE 5-15mph, mix sun&clouds

Water Elev: NA Attempts: 1

Depth Units: Ft

Northing: 1119871.37

Easting: 921517.04 Mud Line: 347.83 ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Core Recovery Depth: 11.9

Surface Water Depth: 15.1 ft Penetration Depth: 15.0

Depth	Recov	Sample	PID	USCS	The second of	Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1001-01		SM	Wet, very loose, black, fine to medium SAND, some silt, petroleum-like odor.	Vibracore	Sand
		OL-1001-02		SM	Wet, very loose, black to dark grey, fine to medium SAND, some silt, little shells, trace oncolites, slight petroleum-like	Vibracore	
		OL-1001-03		SM	wer, Wer house, black to dark grey, fine to medium SAND, some silt, little shells, slight petroleum-like odor (MARL).	Vibracore	
		OL-1001-04		SM	Wet, very loose, grey, fine SAND, some silt, little shells, sulfur odor (MARL).	Vibracore	
		OL-1001-05		SM	Wet, very loose, grey, fine SAND, some silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1001-06		SM	Wet, very loose, grey, fine SAND, some silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1001-07		SM	Wet, very loose, grey, fine SAND, some silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1001-08		SM	Wet, very soft, light grey, fine SAND, some silt, trace shells, sulfur odor (MARL).	Vibracore	
	OL-1001-09		SM	Wet, very soft, light grey, fine SAND, some silt, trace shells, sulfur odor (MARL).	Vibracore	Marl	
		OL-1001-10		SM	Wet, very soft, light grey, fine SAND, some silt, trace shells, sulfur odor (MARL).	Vibracore	
, Il					1	LJ	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20189

Date: 08/20/2009

Weather: High 80s S-SE 5-15mph, mix sun&clouds

Water Elev: NA

Depth Units: Ft

Attempts: 1

Northing: 1119871.37

Easting: 921517.04

Mud Line: 347.83 ft

Driller: Anchor QEA Logging Company: PARSONS

Geologist: SARA CHMURA

Surface Water Depth: 15.1 ft Penetration Depth: 15.0

Core Recovery Depth: 11.9

epth	Recov	Sample	PID	USCS		Sample	. .
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratun
		OL-1001-11		SM	Wet, very soft, grey, SILT, some fine sand, trace shells, sulfur odor (MARL).	Vibracore	
-		OL-1001-12		SM	Wet, very soft, grey, SILT, some fine sand, trace shells, sulfur odor (MARL).	Vibracore	
-							Marl
		OL-1001-13		SM	Wet, very soft, grey, SILT, some fine sand, trace shells, trace oncolites, sulfur odor (MARL).	Vibracore	
		OL-1001-14		SM	Wet, very soft, grey, SILT, some fine sand, some shells, sulfur odor (MARL).	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20190

Date: 08/28/2009

Weather: High 60s, Winds NE 5-10mph, mix sun&clouds

Water Elev: 363 Ft

Attempts: 2

Depth Units: Ft

Northing: 1120179.92

Easting: 921319.07

Mud Line: 344.2 Ft

Surface Water Depth: 18.8 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12.00

Core Recovery Depth: 11.00

Depth	Recov	Sample	PID	USCS	Soil Description	Sample	Stratum
Ft	ď	ID	(ppm)	Code		Method	Stratum
0		OL-1018-15	0.3	ML	Wet, very soft, black, SILT, trace fine sand, petroleum-like odor.	Vibracore	
	П	OL-1018-16	0.4	ML	Wet, very soft, black, SILT, trace fine sand, petroleum-like odor.	Vibracore	0:11
		OL-1018-17	0.4	ML	Wet, very soft, black, SILT, trace fine sand, petroleum-like odor.	Vibracore	Silt
		OL-1018-18	0.4	ML	Wet, very soft, black, SILT, trace fine to medium sand, petroleum-like odor.	Vibracore	
		OL-1018-19	0.3	SOLW	Wet, very soft, gray and dark gray, silt-like grains, trace fine sand, mothball and petroleum-like odor.	Vibracore	
	П	OL-1018-20	0.4	SOLW	Wet, very soft, gray and dark gray, silt-like grains, trace fine sand, mothball and petroleum-like odor.	Vibracore	
		OL-1019-01	0.4	SOLW	Wet, very soft, gray and dark gray, silt-like grains, trace fine sand, mothball and petroleum-like odor.	Vibracore	
İ		OL-1019-02	0.3	SOLW	Wet, very soft, dark gray and grayish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore	
_	OL-1019-03	0.4	SOLW	Wet, soft, grayish-white, silt-like grains, cementation throughout, mothball odor.	Vibracore	Solvay Waste	
		OL-1019-04	0.5	SOLW	Wet, soft, grayish-white, silt-like grains, cementation throughout, mothball odor.	Vibracore	

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20190

Date: 08/28/2009

Weather: High 60s, Winds NE 5-10mph, mix sun&clouds

Northing: 1120179.92

Easting: 921319.07 Mud Line: 344.2 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Water Elev: 363 Ft

Attempts: 2

Depth Ft	Recov	Sample ID	PID (ppm)	USCS	Soil Description	Sample Method	Stratun
5		OL-1019-05	0.3	SOLW	Wet, soft, grayish-white, silt-like grains, cementation throughout, mothball odor.	Vibracore	
		OL-1019-06	0.4	SOLW	Wet, very soft, greenish-white and grayish-white, silt-like grains, mothball odor.	Vibracore	
		OL-1019-07	0.4	SOLW	Wet, very soft, grayish-white, silt-like grains, cementations less than 0.5 inches in diameter throughout, mothball odor.	Vibracore	Solvay Was
-		OL-1019-08	0.6	SOLW	Wet, soft, grayish-white, silt-like grains, cementations less than 0.5 inches in diameter throughout, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20195

Date: 09/22/2009

Weather: Low 70s, mostly cloudy, Winds S 5-10mph

Northing: 1119831.79

Easting: 921650.80 Mud Line: 338.1 Ft

Surface Water Depth: 24.9 Ft

Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Penetration Depth: 7.30

Water Elev: 363 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 6.20

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1023-01	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, slight petroleum-like odor.	Vibracore	
	ı	OL-1023-02	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, slight petroleum-like odor.	Vibracore	
		OL-1023-03	0	ML	Wet, very soft, black, SILT, trace fine sand, petroleum-like odor.	Vibracore	
		OL-1023-04	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, sulfur odor.	Vibracore	Silt
		OL-1023-05	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, sulfur odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20196

Date: 09/22/2009

Weather: Low 70s, mostly cloudy, Winds S 5-10mph

Northing: 1119707.55

Easting: 921786.20 Mud Line: 339.3 Ft Driller: QEA Logging Company: PARSONS Geologist: SARA CHMURA Water Elev: 362.3 Ft

Attempts: 1 Depth Units: Ft

Surface Water Depth: 23 Ft

Penetration Depth: 7.00

Core Recovery Depth: 4.40

Depth	9	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1024-02	0	SM	Wet, loose, dark gray, fine SAND, trace medium sand, trace shells, little silt.	Vibracore	
		OL-1024-03	0	ML	Wet, very soft, black, SILT, trace fine sand, slight petroleum-like odor.	Vibracore	
	OL-1024-04	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor.	Vibracore	Silt	
		OL-1024-05	0.1	ML	Wet, very soft, black, SILT, trace fine sand, petroleum-like odor.	Vibracore	
-		OL-1024-07	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, strong petroleum-like odor, bottom 0.25 inches is fine SAND, some silt, trace shells (MARL).	Vibracore	
							Marl

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-20197

Date: 09/22/2009

Weather: Low 70s, mostly cloudy, Winds S 5-10mph

Northing: 1119799.63

Easting: 921801.83

Mud Line: 334.38 Ft

Surface Water Depth: 28 Ft

Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Penetration Depth: 7.00

Water Elev: 363 Ft

Attempts: 2 Depth Units: Ft

Core Recovery Depth: 5.00

Depth	6	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1023-06	0	ML	Wet, very soft, dark gray to black, SILT, trace fine sand, trace organics, slight petroleum-like odor.	Vibracore	
		OL-1023-07	0	ML	Wet, very soft, dark gray to black, SILT, trace fine sand, trace organics, slight petroleum-like odor.	Vibracore	
		OL-1023-08	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, slight petroleum-like odor, rainbow sheen.	Vibracore	
		OL-1023-09	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, slight petroleum-like odor, rainbow sheen.	Vibracore	Silt
		OL-1023-10	0	ML	Wet, very soft, black, SILT, trace fine sand, petroleum-like odor, bottom 0.25 inches is grey-white.	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-30140 Start/End Date: 09/01/2009

Weather: Mid 70s, mostly sunny, wind SNW 10 mph

Northing: 1124313.23

Easting: 918176.52

Mud Line: 360.66 Ft

Driller: Mark Childs

Borehole Logging Company: Parsons

Drilling Company: Atlantic Testing

Total Depth: 20.0 Ft

Water Elevation: 362.66

Surface	Wate	er Depth: 2	Pft I	Borehole (Geologis	st: SD	Rig Type: CME75		
Depth	Recov	Sample	Blow	N	PID	USCS	- " - " - " - "	Sample	Ī.,
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
0			2-WH-WH-WH	0	0	SOLW	Wet, very soft, green and white, silt-like grain little sand-like grains, trace crust (cemented)	2SS-140H	
			1-WH-WH-WH	0	0	SOLW	Wet, very soft, green and white, silt-like grain little sand-like grains, trace crust (cemented)	2SS-140H	
5			wн-wн-wн	0	0	SOLW	Wet,very soft, white, silt-like grains, some odor.	2SS-140H	Solvay Was
			WR-WR-WR-WR	0	0	SOLW	Wet, very soft, white, silt-like grains, some o	2SS-140H	
			WH-WH-WH	0	0	SOLW	Wet, very soft, white, silt-like grains, some o	dor. 2SS-140H	

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-30140 Start/End Date: 09/01/2009

Weather: Mid 70s, mostly sunny, wind SNW 10 mph

Northing: 1124313.23

Drilling Company: Atlantic Testing

Total Depth: 20.0 Ft

Easting: 918176.52 Mud Line: 360.66 Ft **Driller: Mark Childs Borehole Logging Company: Parsons** Water Elevation: 362.66

Surface Water Depth: 2 Ft	Borehole Geologist: SD	Rig Type: CME75

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS	Soil Description	Sample Method	Stratur
10			WH-WH-2-2	2	0	SOLW	Wet, very soft, white, silt-like grains, crust-like from 0-1 in., cemented from 13-18 in.	2SS-140H	
+	(3)		1-WH-WH-WH	0	0	SOLW	Wet,soft, white, silt-like grains.	2SS-140H	Solvay Was
15 —			WH-WH-WH	0	0	SOLW	Wet, very soft, white grading to whitish-green, silt-like grains.	2SS-140H	
-			WR-WR-WR-WR	0	58	ML	Wet, soft, greenish brown, SILT, little fine sand, trace shells, trace clay (Marl).	2SS-140H	
20.0			WR-WR-WR	0	72	ML	Wet, soft, greenish brown, SILT, trace fine sand, trace clay, trace shells, strong sulfur odor (Marl).	2SS-140H	- Marl

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-30141 Start/End Date: 09/01/2009

Weather: Mid 70s, mostly sunny, winds NW 10 mph

Northing: 1124172.91

Drilling Company: Atlantic Testing

Easting: 918343.34 **Driller: Mark Childs**

Mud Line: 360.66 Ft **Borehole Logging Company: Parsons** Borehole Geologist: SD

Total Depth: 20.0 Ft

Water Elevation: 362.66

Surface	Wate	er Depth:	2 Ft B	orehole	Geolog	ist: SD	Rig Type: CME75		
Depth	Recov	Sample	Blow	N	PID	USCS		Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratur
0			WOR-WOR-WOR	0	0	SOLW	Wet, very soft, whitish green grading to white silt-like grains, two 1/8 in. crust layers, slight	e, odor. 2SS-140H	
			WOR-WOR-WOR	0	0	SOLW	Wet, very soft, white, silt-like grains, 3 in. band of greenish silt-like grains from 12 to 15	i in. 2SS-140H	
5 —			WOR-WOR-WOR	0	0	SOLW	Wet, very soft, white, silt-like grains.	2SS-140H	Solvay Wasi
			WOR-WOR-WOR	0	0	SOLW	Wet, very soft, white, silt-like grains.	2SS-140H	
			WOR-WOR-WOR	0	0	SOLW	Wet, very soft, white, silt-like grains.	2SS-140H	

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-30141 Start/End Date: 09/01/2009

Weather: Mid 70s, mostly sunny, winds NW 10 mph

Northing: 1124172.91 Easting: 918343.34

Surface Water Depth: 2 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Total Depth: 20.0 Ft Water Elevation: 362.66

Mud Line: 360.66 Ft Borehole Logging Company: Parsons

Borehole Geologist: SD Rig Type: CME75

Depth	9	nple	Blow	N	PID	USCS		Sample	
	- R	D	Count	Value	(ppm)	Code	Soil Description	Method	Stratur
10			WOR-WOR-WOR	0	0	SOLW	Wet, very soft, white, silt-like grains.	2SS-140H	
-			WOR-WOR-WOR	0	0	SOLW	Wet, very soft, greenish white grading to white, silt-like grains.	2SS-140H	
15 —			WOR-WOR-WOR	0	0	SOLW	Wet, very soft, greenish white grading to white, silt-like grains, more cohesive.	2SS-140H	Solvay Wasi
_			1-WOH-WOH-WOH	0	0	SOLW	Wet, very soft, greenish white grading to white, silt-like grains, more cohesive.	2SS-140H	
					0	SOLW	Wet, very soft, greenish white silt-like grains, trace crusty lenses throughout. Note: Blow counts not recorded for interval.	2SS-140H	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-30142 Start/End Date: 08/31/2009

Weather: High 60s, sun & clouds, winds NNW 5-10 mph

Northing: 1123542.03 Easting: 919175.59 **Drilling Company: Atlantic Testing**

Total Depth: 20.0 Ft
Water Elevation: 362.51

Mud Line: 360.51 Ft

Driller: Mark Childs

Depth Units: Ft

Surface Water Depth: 2 Ft

Borehole Logging Company: Parsons

Borehole Geologist: SD Rig Type: CME75

Depth	0	Sample	Blow	N	PID	USCS	0.110	Sample	١
Ft	Recov	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
0			WOH-WOH-1-0	1	0	ML-SM	0 to 4 in: Wet, very loose, dark gray SAND. 4 to 14 in: Wet, very soft/very loose, light tan, SILT and SAND, trace small shells, trace organics (grass), unidentified odors.	2SS-140H	
-			wон-wон-wон	0	0	ML	Wet, very soft, light tan, SILT, little fine sand, trace shells, unidentified odor, thin denser lenses of soft crusty marl.	2SS-140H	
5 —			woн-woн-woн	0	0	ML	Wet, very soft, light tan, SILT, little fine sand, trace shells, unidentified odor, thin denser lenses of soft crusty marl.	2SS-140H	Maı
			woн-woн-woн	0	7	ML	Wet, soft, tan, SILT, some sand-like grains, 1 in thick sandy lenses throughout, trace shells, strong odor (Marl).	2SS-140H	
			woн-woн-woн	0	0	ML	Wet, soft, tan, SILT, some sand-like grains, 1 in thick sandy lenses throughout, trace shells, strong odor (Marl).	2SS-140H	

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-30142 Start/End Date: 08/31/2009

Weather: High 60s, sun & clouds, winds NNW 5-10 mph

Total Depth: 20.0 Ft

Depth Units: Ft

Water Elevation: 362.51

Northing: 1123542.03

Easting: 919175.59

Mud Line: 360.51 Ft

Surface Water Depth: 2 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: Parsons

Borehole Geologist: SD

Rig Type: CME75

Depth	Recov	Sample		N	PID	USCS	Soil Description	Sample	Stratu
Ft 10	Ř	ID	Count	Value	(ppm)	Code	Wet, soft, tan, SILT, some fine sand, 1 in thick	Method	Siratu
_			woн-woн-woн	0	0	ML	cemented sandy lenses throughout, trace shells, strong odor (Marl).	2SS-140H	
							Wet, very loose, tan, fine SAND, some silt.		1
+			woн-woн-woн	0	0	SM		2SS-140H	
-					10		Wet, very soft, tan, SILT, little fine sand, trace		-
							shells, strong odor. (Marl).		
15 +			WOR-WOR-WOH	0	0	ML		2SS-140H	Mar
							Wet, very soft, tan, SILT, little fine sand, trace shells, strong odor. (Marl).		_
+			WOR-WOR-WOR	0	0	ML		2SS-140H	
							Wet, soft, tan, SILT, little fine sand, trace shells, strong odor (Marl).		
-			WOR-WOR-WOR-WOR	0	0	ML		2SS-140H	
20.0									

Page 1 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-30143 Start/End Date: 08/31/2009

Weather: High 60s, sun & clouds, winds NNW 5-10 mph

Northing: 1123270.81 Easting: 919542.40

Drilling Company: Atlantic Testing

Total Depth: 20.0 Ft Water Elevation: 362.51

Mud Line: 358.51 Ft

Driller: Mark Childs Borehole Logging Company: Parsons

Depth Units: Ft

Surface Water Depth: 4 Ft

Borehole Geologist: SD

Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS	Sail Description	Sample	Ctrotu
Ft	N.	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
0			WOR-WOR-WOR	0	0	SM/ML	Wet, very loose/very soft, tan, fine SAND and SILT, trace shells, odor (Marl).	2SS-140H	
			WOR-WOR-WOH	0			No Recovery.	2SS-140H	
5 —			WOR-WOR-WOR	0	0	ML	Wet, very soft, SILT, some fine sand, trace shells, odor (Marl).	2SS-140H	Mari
			WOR-WOR-WOH	0	19.5	ML	Wet, very soft, SILT, some fine sand, trace shells, odor (Marl).	2SS-140H	-
-			WOR-WOR-WOR	0	45	ML	Wet, very soft, SILT, some fine sand, trace shells, odor (Marl).	2SS-140H	

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-30143 Start/End Date: 08/31/2009

Weather: High 60s, sun & clouds, winds NNW 5-10 mph

Northing: 1123270.81

Drilling Company: Atlantic Testing

Total Depth: 20.0 Ft Water Elevation: 362.51

Easting: 919542.40 Mud Line: 358.51 Ft **Driller: Mark Childs Borehole Logging Company: Parsons**

Depth Units: Ft

Surface Water Depth: 4 Ft

Borehole Geologist: SD

Rig Type: CME75

Depth	S	Sample	Blow	N	PID	USCS		Sample	
Ft	Recov	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
10			WOR-WOR-WOR	0	24.1	ML	Wet, very soft, SILT, some fine sand, trace shells, odor (Marl).	2SS-140H	
4			WOR-WOR-WOR	0	13.3	ML	Wet, very soft, tan, SILT, little to some fine sand, trace shells, strong sewage-like odor (Marl).	2SS-140H	
15 —			WOR-WOR-WOH	0	50	ML	Wet, very soft, tan, SILT, little to some fine sand, trace shells, strong sewage-like odor (Marl).	2SS-140H	Marl
-			WOR-WOR-WOR	0	51	ML	Wet, very soft, tan, SILT, little to some fine sand, trace shells, strong sewage-like odor (Marl).	2SS-140H	
† - -			WOR-WOR-WOR	0		ML	Wet, very soft, tan, SILT, little to some fine sand, trace shells, strong sewage-like odor (Marl).	2SS-140H	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30096

Date: 08/13/2009

Weather: Mid 80s. Winds 5-10mph NNE. Mix Sun/Clouds.

Northing: 1126666.26

Easting: 916928.77 Mud Line: 346.3 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Water Elev: 363.8 Ft

Attempts: 1 Depth Units: Ft

Surface Water Depth: 17.5 Ft

Penetration Depth: 8

Core Recovery Depth: 6.8

		Борин. 17.01		110000		T	
Depth Ft	Recov	Sample ID	PID	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0887-10	(ppm)	ML	Wet, very soft, black, SILT, trace fine to medium sand, trace shells, trace organics, petroleum-like odor (MARL).	Vibracore	
		OL-0887-11	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor.	Vibracore	Silt
		OL-0887-12	0	ML	Wet, very soft black SILT, trace fine sand, trace organics, petroleum-like odor.	Vibracore	
		OL-0887-13	0	ML	Wet, very soft, black, SILT, trace fine sand, trace shells, trace organics (MARL).	Vibracore	Marl

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30097

Date: 08/13/2009

Weather: Mid 80s. Winds 5-10mph NNE. Mix Sun/Cloud.

Water Elev: 363.8 Ft

Attempts: 1

Depth Units: Ft

Northing: 1126715.04

Easting: 917265.08 Mud Line: 340.7 Ft

Surface Water Depth: 23.1 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 7.5

Core Recovery Depth: 6.6

Depth	Recov	Sample	PID	USCS	Sail Description	Sample	Ctratura
Ft	Ϋ́	ID	Reading	Code	Soil Description	Method	Stratum
0		OL-0887-14	ō	ML	Wet, very soft, black and brown, SILT, trace fine sand, trace organics.	Vibracore	
		OL-0887-15	0	ML	Wet, very soft, black and brown, SILT, trace fine sand, trace organics.	Vibracore	
		OL-0887-16	0	ML	Wet, very soft, black and brown, SILT, trace fine sand, trace organics, trace clay.	Vibracore	Silt
4.0		OL-0887-17	O ML	Wet, very soft, black and brown, SILT, trace fine sand, trace organics, trace clay.	Vibracore		

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30098

Date: 07/23/2009

Weather: Low 80s, humid, winds 10-20mph NE, showers

Northing: 1126722.99

Easting: 917611.19

Mud Line: 335 Ft Surface Water Depth: 28.1 Ft

Driller: Anchor QEA

Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 7

Water Elev: 363.1 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 5.8

Depth Ft	Recov	Sample ID	PID Reading	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0840-17	ō	ML	Wet, soft, dark greyish-brown, SILT, slight sulfur odor.	Vibracore	
_		OL-0840-18	0	ML	Wet, soft, dark greyish-brown and black, SILT, petroleum-like odor.	Vibracore	
	OL-0840-19 0	ML	Wet, soft, black, SILT, trace fine sand, slight petroleum-like odor.	Vibracore	Silt		
4.0		OL-0840-20	0	ML	Wet, soft, black, SILT, trace fine sand, petroleum-like odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30098-A

Date: 09/28/2009

Weather: Low 70s, sun&clouds, Winds S-SE 10-20 mph

Northing: 1126724.24

Easting: 917608.17 Mud Line: 335 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARAH CHMURA Water Elev: 363.1 Ft

Attempts: 1
Depth Units: Ft

Surface Water Depth: 28.1 Ft

Penetration Depth: 4.00

Core Recovery Depth: 3.10

		Depth: 28.1 F			Depth: 4.00 Core Recovery Depth: 3.10		
Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1031-02	0	ML	Wet, very soft gray-brown SILT, trace fine sand.	Vibracore	
1.0		OL-1031-03	0	ML	Wet, very soft, brown, SILT, trace fine sand.	Vibracore	Silt

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30099

Date: 08/04/2009

Weather: High 80s, sun&clouds, Winds SW 10-15mph

Northing: 1125000.54

Easting: 918249.62 Mud Line: 347.8 Ft Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Water Elev: 363.3 Ft Attempts: 2 Depth Units: Ft

Surface Water Depth: 15.5 Ft

Penetration Depth: 10

Core Recovery Depth: 6

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0865-10	0	SOLW	Wet, very soft, greenish-gray, silt-like grains, zebra mussels on top, slight mothball odor.	Vibracore	
		OL-0865-11	0	SOLW	0-2 inches: Wet, very soft, greenish-gray, silt-like grains, zebra mussels on top, slight mothball odor. Rest of core is wet, very soft, white, silt-like grains, slight mothball odor.	Vibracore	
+		OL-0865-12	0.1	SOLW	Wet, very soft, dark gray, silt-like grains, cemented chunks throughout, slight mothball odor.	Vibracore	
		OL-0865-13	0.1	SOLW	0-3 inches: Wet, very soft, dark gray, silt-like grains, cemented chunks throughout, slight mothball odor. Rest of core is wet, very soft, white, silt-like grains, slight mothball odor.	Vibracore	Solvay Was
		OL-0865-14	0.4	SOLW	Wet, very soft, white, silt-like grains, slight mothball odor.	Vibracore	
5 —		OL-0865-15	0.2	SOLW	Wet, very soft, white, silt-like grains, slight mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30100

Date: 08/04/2009

Weather: High 80s, sun&clouds, Winds SW 10-15mph

Water Elev: 363.3 Ft

Attempts: 2

Depth Units: Ft

Northing: 1124813.78

Easting: 918190.14

Surface Water Depth: 11 Ft

Mud Line: 352.3 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 10

Core Recovery Depth: 7.3

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0865-16	0	SOLW	Wet, very soft, white, silt-like grains, little gray fine to medium sand from 0-5 inches, slight mothball odor.	Vibracore	
		OL-0865-17	0.4	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	
+		OL-0865-18	0.4	SOLW	Wet, very soft, white and light green, silt-like grains, mothball odor.	Vibracore	
		OL-0865-19	0.9	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	Solvay Wast
		OL-0865-20	0.6	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	
5 +		OL-0866-01	0.9	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30101

Date: 08/05/2009

Weather: High 80s, sun&clouds, Winds NW 10-15mph

Northing: 1124710.98

Easting: 918328.76 Mud Line: 349.1 Ft Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Water Elev: 363.4 Ft

Attempts: 1
Depth Units: Ft

Surface Water Depth: 14.3 Ft

Penetration Depth: 10

Core Recovery Depth: 8.5

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratun
0		OL-0868-01	0.8	SOLW	Wet, very soft, greenish-white, silt-like grains, slight mothball odor.	Vibracore	
		OL-0868-02	2.8	SOLW	Wet, very soft, grayish-white, silt-like grains, mothball odor.	Vibracore	
+		OL-0868-03	0.9	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	
1		OL-0868-04	0.8	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	Solvay Was
		OL-0868-05	0.4	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	
5 —		OL-0868-06	0.8	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30102

Date: 08/05/2009

Weather: High 80s, sun&clouds, Winds NW 10-15mph

Northing: 1124901.59

Easting: 918476.24 Mud Line: 340.9 Ft

Surface Water Depth: 22.5 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 10 Core Recovery Depth: 7

Core Recovery Depth: 7.4

Water Elev: 363.4 Ft

Attempts: 2

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0866-02	0	SOLW	Wet, very soft, greenish-gray to grayish-white, silt-like grains.	Vibracore	
		OL-0866-03	0.6	SOLW	Wet, very soft, grayish-white, silt-like grains.	Vibracore	
		OL-0866-04	0.4	SOLW	Wet, very soft, gray to dark gray, silt-like grains, slight mothball odor.	Vibracore	
	Ĭ	OL-0866-06	0	SOLW	Wet, very soft, grayish-white to dark gray, silt-like grains, slight mothball odor.	Vibracore	Solvay Wast
-		OL-0866-07	0.1	SOLW	Wet, very soft, dark gray to grayish-white, silt-like grains, cemented chunks throughout.	Vibracore	
5 +		OL-0866-08	2.1	SOLW	Wet, very soft, grayish-white, silt-like grains, mothball-like odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30103

Date: 08/05/2009

Weather: High 80s, sun&clouds, Winds NW 10-15mph

Northing: 1124736.57

Easting: 918490.63 Mud Line: 341.9 Ft

Surface Water Depth: 21.5 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Water Elev: 363.4 Ft

Attempts: 1 Depth Units: Ft

Penetration Depth: 9 Core Recovery Depth: 7.7

	Sample	PID	USCS		Sample	
Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
	OL-0866-15	0.1	ML	Wet, very soft, green-brown, SILT, trace fine sand, petroleum-like odor.	Vibracore	Silt
	OL-0866-16	0.5	ML	0-8 inches: Wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor (ML); Rest of core is wet, very soft, dark gray, silt-like grains, mothball odor (SOLW).	Vibracore	
	OL-0866-17	0.5	SOLW	Wet, very soft, black and gray, silt-like grains, cemented chunks throughout, petroleum-like odor, mothball odor.	Vibracore	
	OL-0866-18	0.8	SOLW	0-1 inch: Wet, very soft, black and gray to grayish-white, silt-like grains, mothball odor.	Vibracore	Solvay Waste
	OL-0866-19	1.7	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	50.15, 1.44.5
	OL-0866-20	1.3	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	
		OL-0866-15 OL-0866-16 OL-0866-17 OL-0866-19	OL-0866-15 0.1 OL-0866-16 0.5 OL-0866-17 0.5 OL-0866-19 1.7	OL-0866-15	OL-0866-15 OL-0866-15 OL-0866-16 OL-0866-16 OL-0866-17 OL-0866-18 OL-0866-19 OL-086	Wet, very soft, green-brown, SILT, trace fine sand, petroleum-like odor.

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30104

Date: 08/05/2009

Weather: High 80s, sun&clouds, Winds NW 10-15mph

Northing: 1124845.28

Easting: 918608.64 Mud Line: 336.2 Ft

Surface Water Depth: 27.2 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 8

Water Elev: 363.4 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 6.9

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0866-09	0	ML	Wet, very soft, green-brown, SILT, trace fine sand.	Vibracore	
¥		OL-0866-10	0.1	ML	Wet, very soft, black, SILT, trace fine sand, petroleum-like odor.	Vibracore	Silt
-		OL-0866-11	0.1	ML	0-7 inches: Wet, very soft, black, SILT, trace fine sand, petroleum-like odor (ML); Rest of core is wet, very soft, light to dark gray, silt-like grains, cemented chunks throughout (SOLW).	Vibracore	
		OL-0866-12	1.9	SOLW	Wet, very soft, black and grayish-white, silt-like grains, slight mothball odor.	Vibracore	
-		OL-0866-13	2.4	SOLW	Wet, very soft, white to grayish-white, silt-like grains, mothball odor.	Vibracore	Solvay Wast
5		OL-0866-14	2.7	SOLW	Wet, very soft, grayish-white, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 7.7

Boring No: OL-VC-30105

Date: 07/23/2009

Weather: Low 80s, humid, winds 10-20mph NE, showers

Northing: 1124567.47

Easting: 918583.69

Surface Water Depth: 21.9 Ft

Mud Line: 341.3 Ft

Driller: Anchor QEA

Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 9

Water Elev: 363.1 Ft

Attempts: 1

Depth	cov	Sample	PID	USCS		Sample
Ft	Re	ID	Reading	Code	Soil Description	Method

	ŏ	Sample	PID	USCS		Sample	
Ft	Recov	ID	Reading	Code	Soil Description	Method	Stratum
0		OL-0840-06	0	ML	Wet, very soft, dark brown, SILT, trace organic in bottom 3 inches (twig), petroleum-like odor.	Vibracore	Silt
		OL-0840-07	0	SOLW	Wet, soft, dark brown to greenish-blue, silt-like grains, mothball odor.	Vibracore	
-		OL-0840-08	0	SOLW	Wet, soft, greenish-blue to dark grey, silt-like grains, 1/8 inch thick chunks in bottom 6 inches, mothball odor.	Vibracore	
		OL-0840-09	0	SOLW	Wet, very soft, dark grey to greyish-green, silt-like grains, 1/8 inch thick chunks in top 4 inches, mothball odor.	Vibracore	Solvay Waste
		OL-0840-10	0	SOLW	Wet, soft, grey and light green, silt-like grains, trace fine sands, mothball odor.	Vibracore	
5 —		OL-0840-12	0	SOLW	Wet, soft, greyish-white to dark grey, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30105-A

Date: 09/25/2009

Weather: Mid 60s, mostly sunny, Winds NE 10-15mph

Northing: 1124563.90

Easting: 918583.07 Mud Line: 341.1 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Penetration Depth: 4.00 Core Rec

Water Elev: 363.1 Ft

Attempts: 1 Depth Units: Ft

22,000		Depth: 22 Ft			Depth: 4.00 Core Recovery Depth: 2.70		
Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1029-14	0	ML	Wet, very soft, dark brown, SILT, trace fine sand.	Vibracore	
	Ť	OL-1029-15	0	ML	Wet, very soft, dark brown, SILT, trace fine sand.	Vibracore	Silt

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30106

Date: 07/23/2009

Weather: Low 80s, humid, winds 10-20mph NE, showers

Water Elev: 363.1 Ft

Attempts: 1

Depth Units: Ft

Northing: 1124546.35

Easting: 918714.68 Mud Line: 338.3 Ft Driller: Anchor QEA
Logging Company: Parsons
Geologist: H.SLETTEN
Penetration Depth: 9

Core Recovery Depth: 7.5

Surface Water Depth: 24.9 Ft

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0839-20	0	ML	Wet, very soft, dark brown, SILT, slight petroleum-like odor.	Vibracore	Silt
4		OL-0840-01	0	SOLW	Wet, very soft, black to greenish-blue, SILT and silt-like grains, trace fine sand, slight petroleum-like and mothball odor (ML/SOLW).	Vibracore	
-	ĺ	OL-0840-02	0	SOLW	Wet, very soft, light greyish-blue, silt-like grains, mothball odor.	Vibracore	
Ī	OL-0840-03	OL-0840-03	0	SOLW	Wet, very soft, grey and greyish-green, silt-like grains, mothball odor.	Vibracore	SOLW
_		OL-0840-04	0	SOLW	Wet, very soft, light greyish-green to dark grey, silt-like grains, trace fine sand in bottom 4 inches, mothball odor.	Vibracore	
5 +		OL-0840-05	0	SOLW	Wet, soft, dark-grey to light green, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30106-A

Date: 09/25/2009

Weather: Mid 60s, mostly sunny, Winds NE 10-15mph

Northing: 1124542.57 Easting: 918715.81

Mud Line: 338.1 Ft

Driller: QEA
Logging Company: PARSONS
Geologist: SARA CHMURA

Attempts: 2 Depth Units: Ft

Water Elev: 363.1 Ft

Surface Water Depth: 25 Ft

Penetration Depth: 4.00

Core Recovery Depth: 1.70

		Depth: 25 Ft		leuauon	Depth: 4.00 Core Recovery Depth: 1.70		
Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1029-16	0	ML	Wet, very soft, dark brown, SILT, trace fine sand.	Vibracore	
1.0		OL-1029-17	0	ML	Wet, very soft, dark brown, SILT, trace fine sand.	Vibracore	Silt

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30107

Date: 07/22/2009

Weather: Low 80s, humid, winds 10-20mph NE, showers

Water Elev: 363.2 Ft

Attempts: 1

Depth Units: Ft

Northing: 1124503.37

Easting: 918844.13 Mud Line: 337 Ft Driller: QEA

Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 9.8

Core Recovery Depth: 7.7

Surface Water Depth: 26.2 Ft

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0839-01	0	ML	Wet, soft, dark grey-brown, SILT, petroleum-like odor.	Vibracore	
i		OL-0839-02	0.7	ML	Wet, very soft, black to grey-green, SILT, trace fine sand, petroleum-like odor.	Vibracore	Silt
-		OL-0839-04	0	SOLW	Wet, very soft, light greyish-green, SILT and silt-like grains, mothball odor.	Vibracore	
	Ĭ	OL-0839-05	0	SOLW	Wet, very soft, greyish-green to greyish-white, silt-like grains, mothball odor.	Vibracore	
-		OL-0839-06	0	SOLW	Wet, medium stiff to soft, greyish white to greyish green, silt-like grains, mothball odor.	Vibracore	Solvay Waste
5 —		OL-0839-07	0	SOLW	Wet, soft, light green to greyish-white, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30107-A

Date: 09/25/2009

Weather: Mid 60s, mostly sunny, Winds NE 10-15mph

Northing: 1124504.24

Easting: 918842.95 Mud Line: 336.9 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA Water Elev: 363.1 Ft

Attempts: 1 Depth Units: Ft

Surface Water Depth: 26.2 Ft

Penetration Depth: 4.50

Core Recovery Depth: 2.60

		Depth: 26.2 F	t Pe	leuation	Depth: 4.50 Core Recovery Depth: 2.60		
Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1029-12	0	ML	Wet, very soft, dark brown, SILT, trace organics.	Vibracore	
		OL-1029-13	0	ML	Wet, very soft, dark brown, SILT, trace organics.	Vibracore	Silt

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30108

Date: 08/03/2009

Weather: Low 80s, mostly sunny, Winds S-SW 5-10mph

Northing: 1124290.88

Easting: 918194.12 Mud Line: 361.1 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: HMP

Water Elev: 363.2 Ft Attempts: 2

Depth Units: Ft

Surface Water Depth: 2.1 Ft Penetration Depth: 10 Core Recovery Depth: 9.2

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0860-07	0.3	SOLW	Wet, very soft, grayish-white, silt-like grains, cementations throughout, zebra mussels on top, mothball odor.	Vibracore	
		OL-0860-08	1.8	SOLW	Wet, very soft, grayish-white, silt-like grains, cementations throughout, mothball odor.	Vibracore	
		OL-0860-09	0.8	SOLW	Wet, very soft, grayish-white, silt-like grains, cementations throughout, mothball odor.	Vibracore	
1		OL-0860-11	0.3	SOLW	Wet, very soft, grayish-white, silt-like grains, cementations throughout, mothball odor.	Vibracore	
750		OL-0860-12	1	SOLW	Wet, very soft, grayish-white, silt-like grains, cementations throughout, mothball odor.	Vibracore	Solvay Was
+		OL-0860-13	0.5	SOLW	Wet, very soft, grayish-white, silt-like grains, cementations throughout, mothball odor.	Vibracore	
+	_	OL-0860-14	1	SOLW	Wet, very soft, grayish-white, silt-like grains, cementations throughout, mothball odor.	Vibracore	
-		OL-0860-15	0.9	SOLW	Wet, very soft, grayish-white, silt-like grains, cementations throughout, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30109

Date: 08/04/2009

Weather: High 80s, sun&clouds, Winds SW 10-15mph

Northing: 1124293.61

Easting: 918305.28

Driller: QEA

Water Elev: 363.4 Ft

Mud Line: 358.9 Ft

Logging Company: PARSONS

Attempts: 1 Depth Units: Ft

Surface Water Depth: 4.5 Ft

Geologist: HMP Penetration Depth: 10

Core Recovery Depth: 8.7

Depth	Recov	Sample	PID	USCS	Soil Description	Sample	Stratum
Ft	ď	ID	(ppm)	Code	No. 20 To the Control of the Control	Method	Straturi
0		OL-0865-01	0	SOLW	Wet, very soft, gray and grayish-white, silt-like grains, zebra mussels on top, mothball odor.	Vibracore	
Ť		OL-0865-02	0	SOLW	Wet, very soft, white, silt-like grains.	Vibracore	
		OL-0865-03	0	SOLW	Wet, very soft, white, silt-like grains.	Vibracore	
20	OL-0865-05	OL-0865-05	1.4	SOLW	Wet, very soft, white, silt-like grains.	Vibracore	
7		OL-0865-06	0.9	SOLW	Wet, very soft, white, silt-like grains.	Vibracore	Solvay Wa
+		OL-0865-07	0.4	SOLW	Wet, very soft, white, silt-like grains.	Vibracore	
		OL-0865-08	0.7	SOLW	Wet, very soft, white, silt-like grains.	Vibracore	
		OL-0865-09	1.1	SOLW	Wet, very soft, white, silt-like grains.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30110

Date: 08/04/2009

Weather: High 80s, sun&clouds, Winds SW 10-15mph

Water Elev: 363.4 Ft

Northing: 1124163.33

Easting: 918363.35

Mud Line: 361 Ft

Driller: PARSONS

Logging Company: PARSONS

Geologist: HMP

Attempts: 1
Depth Units: Ft

Surface Water Depth: 2.4 Ft

Penetration Depth: 10

Core Recovery Depth: 8.2

Depth	9	Sample	PID	USCS		Sample	i
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0863-16	1.4	SOLW	Wet, very soft, white and light grey, silt-like grains, trace organics, mothball odor.	Vibracore	
-		OL-0863-17	0.2	SOLW	Wet, very soft, white and light grey, silt-like grains, trace organics, mothball odor.	Vibracore	
		OL-0863-18	2,6	SOLW	Wet, very soft, white to light gray in bottom 2 inches, silt-like grains, mothball odor.	Vibracore	
-		OL-0863-19	1.2	SOLW	Wet, very soft, white and light grey, silt-like grains, mothball odor.	Vibracore	
		OL-0863-20	1.7	SOLW	0-3 in: wet, very soft, black, silt-like grains, mothball odor. Rest of core is wet, very soft, white and light gray, silt-like grains, mothball odor.	Vibracore	Solvay Was
+	+	OL-0864-01	3.5	SOLW	Wet, very soft, white and light grey, silt-like grains, mothball odor.	Vibracore	
		OL-0864-02	3.1	SOLW	Wet, very soft, white and light gray, silt-like grains, mothball odor.	Vibracore	
		OL-0864-03	2.2	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30111

Date: 08/06/2009

Weather: Mid 70s, sun&clouds, Winds NW 10-15mph

Northing: 1124189.81 Easting: 918139.01 Driller: QEA

Water Elev: 363.2 Ft

Mud Line: 361.9 Ft

Logging Company: PARSONS Geologist: XIAODONG HUANG Attempts: 2 Depth Units: Ft

Surface Water Depth: 1.3 Ft

Penetration Depth: 10 C

Core Recovery Depth: 7.1

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0871-14	2.4	SOLW	0-6 inches: Wet, very soft, gray, silt-like grains, trace organics, trace fine gravel, mothball odor (SOLW); Rest of core is wet, very soft, black, SILT, trace organics, sewage-like odor (ML).	Vibracore -	Solvay Waste
-		OL-0871-15	45	SW	Wet, very loose, light brown, fine to medium SAND, little silt, trace organics, trace shells, sulfur-odor (MARL).	Vibracore	
-	-	OL-0871-16	64	SW	Wet, very loose, light brown,fine to medium SAND, little silt, trace shells, sulfur odor (MARL).	Vibracore	
4		OL-0871-17	70.2	SW	Wet, very loose, light brown, fine to medium SAND, little silt, trace shells, sulfur odor (MARL).	Vibracore	Marl
		OL-0871-18	17.4	SW	Wet, very loose, light brown, fine to medium SAND, little silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
5 +		OL-0871-19	13.8	SW	Wet, very loose, light brown, fine to medium SAND, little silt, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0871-20	9.9	SW	Wet, very loose, light brown, fine to medium SAND, little silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30112

Date: 08/04/2009

Weather: High 80s, sun&clouds, Winds NW 10-15mph

Northing: 1124163.05

Easting: 918232.50

Mud Line: 362.1 Ft

Surface Water Depth: 1.3 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: HMP

Penetration Depth: 10

Water Elev: 363.4 Ft

Attempts: 3
Depth Units: Ft

Core Recovery Depth: 7.7

Depth	Recov	Sample	PID	USCS	7 9 7 2	Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0862-20	0	SOLW	Wet, soft, green to greenish-grey, silt-like grains, some cementations, mothball odor.	Vibracore	
		OL-0863-01	0.3	SOLW	0-9 in: wet, very soft, black, silt-like grains, mothball odor, trace organics, (SOLW). 9-10 in: wet, very loose, dark grey and brown, fine to medium SAND, trace shells, trace organics, (MARL). Bottom 2 inches is wet, very loose, light brown, fine to medium SAND, trace shells, sulfur odor, (MARL).	Vibracore	Solvay Waste
		OL-0863-02	166	SW	Wet, very loose, light brown, fine to coarse SAND, trace silt, trace shells, trace organics, sulfur odor, (MARL).	Vibracore	
		OL-0863-03	48	ML-SM	Wet, very soft, light brown, SILT and fine Sand, trace shells, trace organics, sulfur odor, (MARL).	Vibracore	
+		OL-0863-04	25.9	SM	Wet, very loose, light brown, fine to medium SAND, some silt, trace shells, sulfur odor, (MARL).	Vibracore	Marl
		OL-0863-05	54.8	SM	Wet, very loose, light brown, fine to medium SAND, some silt, trace shells, sulfur odor, (MARL).	Vibracore	
		OL-0863-06	59.8	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, trace organics, sulfur odor, (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30113

Date: 08/04/2009

Weather: High 80s, sun&clouds, Winds SW 10-15mph

Northing: 1124109.15

Easting: 918308.65

Driller: QEA Logging Company: PARSONS Water Elev: 363.4 Ft

Mud Line: 362.1 Ft

Geologist: HMP

Attempts: 1 Depth Units: Ft

Surface Water Depth: 1.3 Ft

Penetration Depth: 10

Core Recovery Depth: 8.9

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0863-07	6.7	SOLW	Wet, very soft, dark green, silt-like grains, mothball odor, some cementations.	Vibracore	Solvay Waste
		OL-0863-08	243.1	ML	0-7 in: wet, very soft, black, SILT, trace organics, organic odor. 7-10 in: wet, very loose, dark grey, fine to medium SAND, trace shells, trace organics, (MARL). Bottom 2 inches is wet, very loose, light brown, fine to medium SAND, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0863-09	59.2	sw	Moist, very loose, light brown, fine to medium SAND, little silt, trace shells, sulfur odor, (MARL).	Vibracore	
	OL-0863-10	18.3	sw	Moist, very loose, light brown, fine to medium SAND, little silt, trace shells, sulfur odor, (MARL).	Vibracore		
		OL-0863-11	13.8	sw	Moist, very loose, light brown, fine to medium SAND, little silt, trace shells, sulfur odor, (MARL).	Vibracore	Marl
; +		OL-0863-13	12.9	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, sulfur odor, (MARL).	Vibracore	
Ť	-	OL-0863-14	65.2	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, sulfur odor, (MARL).	Vibracore	
Ť		OL-0863-15	15.3	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, sulfur odor, (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30114

Date: 07/22/2009

Weather: Low 80s, humid, winds 10-20mph NE, showers

Northing: 1123830.57 Easting: 919335.81

Easting: 919335.81 Mud Line: 338.2 Ft

Surface Water Depth: 25 Ft

Driller: Anchor QEA

Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 9

Water Elev: 363.2 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 7.7

Depth	Recov	Sample	PID	USCS	0.110	Sample	
Ft	8	ID	Reading	Code	Soil Description	Method	Stratum
0		OL-0839-14	0	ML	Wet, soft, dark brown, SILT, trace fine sand, slight petroleum-like odor.	Vibracore	
		OL-0839-15	0	ML	Wet, soft, black, SILT, trace fine sand, slight petroleum-like odor.	Vibracore	Silt
+		OL-0839-16	0.1	SOLW	Wet, soft, black to greyish-green, silt-like grains, mothball odor.	Vibracore	
		OL-0839-17	0	SOLW	Wet, soft, light green, silt-like grains, mothball odor.	Vibracore	
		OL-0839-18	0	SOLW	Wet, medium-stiff, light green to greyish-green, silt-like grains, trace fine sand, mothball odor.	Vibracore	SOLW
5		OL-0839-19	0	SOLW	Wet, medium-stiff, light green, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30114-A

Date: 09/28/2009

Weather: Low 70s, sun&clouds, Winds S-SE 10-20 mph

Northing: 1123832.38

Easting: 919329.62 Mud Line: 338.5 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARAH CHMURA Water Elev: 363.1 Ft

Attempts: 1
Depth Units: Ft

Surface Water Depth: 24.6 Ft

Penetration Depth: 4.00

Core Recovery Depth: 1.60

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1031-04	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, slight petroleum-like odor.	Vibracore	
1.0		OL-1031-05	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, slight petroleum-like odor.	Vibracore	Silt

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30115

Date: 07/30/2009

Weather: Low 80s, Winds W-NW 5-10mph, sun & clouds

Water Elev: 363.1 Ft

Attempts: 1

Depth Units: Ft

Northing: 1123571.07

Easting: 919534.10

Surface Water Depth: 24.7 Ft

Mud Line: 338.4 Ft

Logging Company: PARSONS

Geologist: D Burkert

Driller: Anchor QEA

Penetration Depth: 10

Core Recovery Depth: 6.4

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0857-04	0.7	ML	Wet, very soft, black, SILT, trace fine sand, slight petroleum-like odor.	Vibracore	
		OL-0857-05	0.6	ML	Wet, very soft, black, SILT, trace slag, trace fine sand, petroleum-like odor.	Vibracore	Silt
-		OL-0857-07	0.7	SOLW	Wet, very soft, gray to dark gray, silt-like grains, some solvay chunks less than 1/8 inch thick throughout, mothball-like odor.	Vibracore	
	ľ	OL-0857-08	0.6	SOLW	Wet, very soft, dark gray to olive green, silt-like grains, some small chunks 0.5 inches thick or smaller, mothball odor.	Vibracore	
-		OL-0857-09	2.2	SOLW	Wet, very soft, gray to olive green, silt-like grains, some chunks, mothball odor.	Vibracore	Solvay Wash
5 —		OL-0857-10	0.9	SOLW	Wet, very soft, light gray to olive gray, silt-like grains, some chunks 0.5 inches thick or smaller, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30116

Date: 07/30/2009

Weather: Low 80s, Winds W-SW 5-10mph, sun & clouds

Water Elev: 363.1 Ft

Attempts: 2

Depth Units: Ft

Northing: 1123358.19

Easting: 919729.63 Mud Line: 337.8 Ft

Surface Water Depth: 25.3 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: D Burkert

Penetration Depth: 10

Core Recovery Depth: 6.5

Recov PID USCS Sample Depth Sample Soil Description Stratum Method Ft ID (ppm) Code Wet, very soft, black, SILT, trace fine sand, petroleum-like 0 OL-0857-11 28 ML Vibracore Silt Wet, very soft, black, SILT, last four inches transitioning to silt-like grains, some small chunks 0.5 inches thick or smaller, petroleum-like odor. OL-0857-12 3.9 ML Vibracore Wet, very soft, light gray to black, silt-like grains, some small chunks 0.5 inches thick or smaller, mothball odor. SOLW 4.7 OL-0857-13 Vibracore Wet, very soft, black to dark gray, silt-like grains, some small chunks 0.5 inch thick or smaller, mothball-like odor. 3.8 SOLW OL-0857-14 Vibracore Solvay Waste Wet, very soft, black to dark gray, silt-like grains, trace fine sand, mothball-like odor. SOLW OL-0857-15 3.9 Vibracore 5 Wet, very soft, black to dark gray, silt-like grains, trace fine sand, trace chunks 0.5 inch thick or smaller, mothball-like SOLW OL-0857-16 3.7 Vibracore 6.0

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 9.5

Boring No: OL-VC-30117

Date: 07/22/2009

Weather: Low 80s, winds 0-5 mph NW, mix sun & clouds

Northing: 1123121.83

Easting: 920052.96

Surface Water Depth: 26.7 Ft

Mud Line: 336.5 Ft

Driller: Anchor QEA

Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 9.5

Water Elev: 363.2 Ft

Attempts: 1

8	Sample	PID	USCS		Sample	
Re	ID	(ppm)	Code		Method	Stratum
	OL-0837-01	0.3	SOLW	Wet, very soft, black, SILT, trace fine sand, 10-12 inches bluish-green silt-like grains, slight sulfur and mothball odor.	Vibracore	Silt
	OL-0837-02	0.3	SOLW	Wet, soft, greyish-blue to greyish-white, silt-like grains, 1 inch chunks from 0-4 inches and 6-8 inches, mothball odor.	Vibracore	
	OL-0837-03	1.1	SOLW	Wet, soft, greyish-white, silt-like grains, 1 inch chunk from 10-11 inches, mothball odor.	Vibracore	
Ŷ	OL-0837-04	1	SOLW	Wet, soft, greyish-white, silt-like grains, 1 inch chunks from 0-3 inches and 5-6 inches, mothball odor.	Vibracore	Solvay Waste
	OL-0837-05	0.5	SOLW	Wet, very soft, greyish-white, silt-like grains, mothball odor.	Vibracore	
	OL-0837-06	0.4	SOLW	Wet, soft, greyish-white to green to greyish-white, silt-like grains, mothball odor.	Vibracore	
	Recov	OL-0837-02 OL-0837-03 OL-0837-04	OL-0837-01 0.3 OL-0837-02 0.3 OL-0837-03 1.1 OL-0837-04 1	OL-0837-01 0.3 SOLW OL-0837-02 0.3 SOLW OL-0837-03 1.1 SOLW OL-0837-04 1 SOLW	Wet, very soft, black, SILT, trace fine sand, 10-12 inches bluish-green silt-like grains, slight suffur and mothball odor. Wet, soft, greyish-blue to greyish-white, silt-like grains, 1 inch chunks from 0-4 inches and 6-8 inches, mothball odor. OL-0837-02	Wet, very soft, black, SILT, trace fine sand, 10-12 inches bluish-green silt-like grains, slight sulfur and motiball odor.

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30117-A

Date: 09/28/2009

Weather: Low 70s, sun&clouds, Winds S-SE 10-20 mph

Water Elev: 363.1 Ft

Attempts: 1

Depth Units: Ft

Northing: 1123121.94

Easting: 920053.61 Mud Line: 336.1 Ft

Surface Water Depth: 27 Ft

Driller: QEA

Logging Company: PARSONS Geologist: SARAH CHMURA

Penetration Depth: 4.00 Core Recovery Depth: 4.00

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1031-06	0	ML	Wet, very soft, dark gray-brown, SILT, trace fine sand, petroleum-like odor.	Vibracore	
1.0		OL-1031-07	0	ML	Wet, very soft, dark gray-brown, SILT, trace fine sand, petroleum-like odor.	Vibracore	Silt

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 6.7

Boring No: OL-VC-30118

Date: 07/22/2009

Weather: Low 80s, humid, winds 10-20mph NE, showers

Northing: 1123681.48

Easting: 919329.56

Mud Line: 346.8 Ft Surface Water Depth: 16.4 Ft Driller: Anchor QEA

Logging Company: Parsons

Geologist: H.SLETTEN

Penetration Depth: 8

Water Elev: 363.2 Ft

Attempts: 1

Depth Ft	Recov	Sample ID	PID Reading	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0839-08	0.1	ML	Wet, soft, black, SILT, little fine sand, petroleum-like odor.	Vibracore	Silt
		OL-0839-09	0.1	SOLW	Wet, soft, dark grey to light green, silt-like grains, mothball odor.	Vibracore	
		OL-0839-10	0.3	SOLW	Wet, medium stiff, greyish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore	
	ľ	OL-0839-11	0.1	SOLW	Wet, medium-stiff to stiff, greyish-white, silt-like grains, mothball odor.	Vibracore	Solvay Waste
_		OL-0839-12	0.1	SOLW	Wet, stiff to medium-stiff, greyish white, silt-like grains, mothball odor.	Vibracore	
5 —		OL-0839-13	0.1	SOLW	Wet, stiff to very soft, greyish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30118-A

Date: 09/25/2009

Weather: Mid 60s, mostly sunny, Winds NE 10-15mph

Northing: 1123680.60

Easting: 919328.36 Mud Line: 346.6 Ft

Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Water Elev: 363.1 Ft

Attempts: 1 Depth Units: Ft

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1029-18	0	SOLW	Wet, very soft, black, silt-like grains, some small solw chunks less than 0.25 inches in diameter, trace organics, mothball odor.	Vibracore	
1.0		OL-1029-19	0	SOLW	Wet, very soft, blue-gray, silt-like grains, trace fine sand, mothball odor.	Vibracore	Solvay Was

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30119

Date: 07/30/2009

Weather: Low 80s, Winds N-NW 5-10mph, sun&clouds

Northing: 1123379.27

Easting: 919533.10 Mud Line: 346.3 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: D Burkert

Penetration Depth: 10

Water Elev: 363.1 Ft

Attempts: 1

Depth Units: Ft

Surface Water Depth: 16.8 Ft Core Recovery Depth: 6.3 PID USCS Depth Sample Sample Soil Description Stratum Ft ID Code Method (ppm) 0 Wet, loose, black, fine SAND, some silt, petroleum-like odor. SM OL-0856-18 47.8 Vibracore Fine Sand Wet, very soft, black, SILT, trace fine sand, trace clay, petroleum-like odor ML OL-0856-19 28.8 Vibracore Silt 0-5 inches: Wet, very soft, black, SILT, trace fine sand, petroleum-like odor (ML); Rest of core is wet, loose, black, fine SAND, some silt, trace shell, petroleum-like odor (SM). 38.6 SM OI -0856-20 Vibracore Sand + Silt 0-2 inches: Wet, loose, black, fine SAND, some silt, trace shell, sulfur odor (SM); Rest of core is wet, very soft, black, SILT, trace fine sand, trace shell, sulfur odor (ML). OL-0857-01 13.9 ML Vibracore Wet, very soft, SILT, trace fine sand, sulfur odor. OL-0857-02 65.6 ML Vibracore Marl 0-2 inches: Wet, very soft, black, SILT, trace fine sand (ML); Rest of core is wet, medium dense, dark gray, fine SAND, little 5 silt, trace shell, sulfur odor (MARL) (SM) OL-0857-03 68.7 SM Vibracore 6.0

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30120

Date: 07/29/2009

Weather: Low 80s Winds SW 10-15mph, sun w/showers

Northing: 1123262.27

Easting: 919816.74

Driller: Anchor QEA Logging Company: PARSONS Water Elev: 363.1 Ft

Mud Line: 341.8 Ft

Geologist: H SLETTEN

Attempts: 1
Depth Units: Ft

Surface Water Depth: 21.3 Ft

Penetration Depth: 10

Core Recovery Depth: 9.6

Depth	200	Sample	PID	USCS	The second secon	Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0872-01	1.8	ML	0-7 inches: Wet, very loose, black, SILT, some zebra mussels, petroleum-like odor (ML); Rest of core is wet, very soft, greenish-gray, silt-like grains, some cementation (SOLW).	Vibracore	Silt
		OL-0872-02	5.9	SOLW	Wet, very soft, greenish-gray to light gray, silt-like grains, some cemented chunks, slight mothball odor.	Vibracore	
+		OL-0853-17	6.8	SOLW	Wet, medium stiff, grayish-white, silt-like grains, mothball odor.	Vibracore	
	Ŷ	OL-0853-18	10.5	SOLW	Wet, medium stiff, grayish-white, silt-like grains, mothball odor.	Vibracore	Solvay Wast
_		OL-0853-19	8.8	SOLW	Wet, medium stiff, grayish-white, silt-like grains, mothball odor.	Vibracore	
5 —		OL-0853-20	7.8	SOLW	Wet, very soft, grayish-white to grayish-green, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 8.3

Boring No: OL-VC-30121

Date: 07/22/2009

Weather: Low 80s, winds 0-5 mph NW, sun and clouds

Northing: 1123140.5

Easting: 919936.7

Mud Line: 344.7 Ft Surface Water Depth: 18.5 Ft Driller: Anchor QEA

Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 8.5

Water Elev: 363.2 Ft

Attempts: 1

Depth	9	Sample	PID	USCS		Sample	
Ft	Re	ID	Reading	Code	Soil Description	Method	Stra
0					Wet, stiff, greyish-green to greyish-white, silt-like grains, mothball odor, zebra mussels in top 3 inches.		

Ft	Re	ID	Reading	Code	Soil Description	Method	Stratum
0		OL-0837-14	0.1	SOLW	Wet, stiff, greyish-green to greyish-white, silt-like grains, mothball odor, zebra mussels in top 3 inches.	Vibracore	
		OL-0837-15	3.4	SOLW	Wet, medium stiff, greyish-white, silt-like grains, mothball odor.	Vibracore	
		OL-0837-16	0.6	SOLW	Wet, medium-stiff, greyish-white, silt-like grains, 1 inch chunk from 2-3 inches, mothball odor.	Vibracore	
		OL-0837-17	0.5	SOLW	Wet, medium-stiff to soft, greyish-white, silt-like grains, mothball odor.	Vibracore	Solvay Waste
-	-	OL-0837-18	0.3	SOLW	Wet, medium-stiff to soft, greyish-white, silt-like grains, mothball odor.	Vibracore	
5		OL-0838-01	0.4	SOLW	Wet, soft, greyish-white to dark grey to greyish-white, silt-like grains, mothball odor.	Vibracore	
6.0					1		

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30122

Date: 07/31/2009

Weather: Mid 70's Winds SW 5-10mph, cloudy

Core Recovery Depth: 8.2

Northing: 1123499.67

Easting: 919295.33

Mud Line: 358.6 Ft

Surface Water Depth: 4.6 Ft

OL-0858-13

63.9

SM

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: D Burkert

Penetration Depth: 10

Water Elev: 363.2 Ft

Attempts: 1

Vibracore

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0858-06	15.7	ML-SM	Wet, soft, gray, SiLT, some fine sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-0858-07	74.3	ML-SM	Wet, soft, light gray, SILT, some fine sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0858-08	13.9	ML-SM	Wet, soft, light gray, SILT, some fine sand, trace shells, trace clay in bottom inch, sulfur odor (MARL).	Vibracore	
		OL-0858-09	18.5	ML-SM	Wet, soft, light gray, SILT, some to little fine sand, trace shells, sulfur odor (MARL).	Vibracore	
Ī		OL-0858-10	13.2	ML-SM	Wet, soft, gray, SILT, some fine sand, trace shells, sulfur odor (MARL).	Vibracore	Marl
+		OL-0858-11	7.8	ML	Wet, soft, gray, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	
†		OL-0858-12	14.6	ML	Wet, soft, gray, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	
t			1		Wet, loose, gray, fine SAND, some to little silt, trace shells, sulfur odor (MARL).		

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30123

Date: 08/03/2009

Weather: Low 80s, mostly sunny, Winds S-SW 5-10mph

Northing: 1123519.25

Easting: 919197.96

Mud Line: 362.1 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Water Elev: 363.2 Ft

Attempts: 1

Depth Ft	Recov	Sample ID	PID (ppm)	USCS	Soil Description	Sample Method	Stratum
)		OL-0859-10	7.9	SOLW	Wet, soft, light grey-green, silt-like grains, trace cemented chunks, NAPL globule at 8 inches, strong hydrocarbon-like odor, (SOLW). Bottom 2 inches is wet, very soft, dark grey, SILT, trace organics, strong hydrocarbon-like odor, (ML).	Vibracore	
Ī		OL-0859-11	23.1	SOLW	Wet, soft, dark grey, silt-like grains, little fine sand, trace organics, hydrocarbon-like odor, (SOLW). Bottom 2 inches is wet, loose, grey, fine to medium SAND, trace shells, trace oncolites, sulfur odor, (MARL).	Vibracore	Solvay Waste
		OL-0859-13	17.3	SP	Moist, medium dense, grey, fine to medium SAND, trace shells, trace oncolites, sulfur odor, (MARL).	Vibracore	
Ì		OL-0859-14	33.2	sw	Moist, medium dense, grey, fine to medium SAND, trace shells, trace oncolites, sulfur odor, (MARL).	Vibracore	
Ť		OL-0859-15	39.1	sw	Moist, medium dense, grey, fine to medium SAND, trace shells, trace oncolites, sulfur odor, hydrocarbon-like odor, (MARL).	Vibracore	
		OL-0859-16	42.1	SW	Wet, loose, fine to medium SAND, trace silt, some shells, little oncolites, hydrocarbon-like odor, (MARL).	Vibracore	Marl
Ť		OL-0859-17	29.3	SW	Wet, loose, fine to medium SAND, trace silt, some shells, little oncolites, hydrocarbon-like odor, (MARL).	Vibracore	
		OL-0859-18	50.8	SW	Wet, loose, fine to medium SAND, trace silt, some shells, hydrocarbon-like odor, (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30124

Date: 08/03/2009

Weather: Low 80s, mostly sunny, Winds S-SW 5-10mph

Northing: 1123446.94

Easting: 919240.39

Surface Water Depth: 1.2 Ft

Mud Line: 362 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 10

Water Elev: 363.2 Ft

Attempts: 1

Depth Units: Ft
Core Recovery Depth: 9.8

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0859-19	4.7	MĹ	Top 2 inches is wet, soft, light brown, silt-like grains, mothball odor, (SOLW). Wet, very soft, dark grey, SILT, trace fine sand, trace organics, petroleum-like odor, ML.	Vibracore	
		OL-0859-20	42.5	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace organics, petroleum-like odor, (ML). Bottom 2 inches is wet, loose, light grey, fine to medium SAND, trace silt, some oncolites, trace shells, sulfur odor, (MARL).	Vibracore	Silt
		OL-0860-01	47.5	SM	wet, loose, light brown, fine SAND, some silt, little shells, hydrocarbon-like odor.	Vibracore	
12		OL-0860-02	13.9	SM	wet, loose, light brown, fine SAND, some silt, little shells, hydrocarbon-like odor.	Vibracore	
		OL-0860-03	21.9	SM	wet, loose, light brown, fine SAND, some silt, little shells, hydrocarbon-like odor.	Vibracore	
; +		OL-0860-04	3.9	SM	wet, loose, light brown, fine SAND, some silt, little shells, hydrocarbon-like odor.	Vibracore	Marl
-		OL-0860-05	34.7	SM	wet, loose, light brown, fine SAND, some silt, little shells, hydrocarbon-like odor.	Vibracore	
Ť		OL-0860-06	40.5	SM	wet, loose, light brown, fine SAND, some silt, little shells, hydrocarbon-like odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30125

Date: 07/31/2009

Weather: Low 70s, mostly cloudy, Winds SW 5-10mph

Northing: 1123360.76

Driller: QEA

Water Elev: 363.2 Ft

Easting: 919312.46

Logging Company: PARSONS

Attempts: 1

Mud Line: 361.9 Ft

Geologist: D Burkert

Depth Units: Ft

Surface Water Depth: 1.3 Ft

Penetration Depth: 10

Core Recovery Depth: 9.6

Depth	50	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0857-17	8.8	SOLW	0-9 inches is wet, very soft to medium stiff, gray to black, silt-like grains, trace organics, mothball odor (SOLW); Rest of core is wet, medium stiff, gray, SILT, some fine sand, some oncolites, trace shell, unknown chemical odor (MARL) (SM).	Vibracore	Solvay Waste
		OL-0857-18	33.8	ML	Wet, stiff, gray, SILT, little fine sand, trace shells, trace organics, unknown chemical odor (MARL).	Vibracore	
İ		OL-0857-19	9.8	SM	Wet, medium dense, gray, fine SAND and Silt, trace shells, trace fine sub-rounded gravel, unknown chemical odor (MARL).	Vibracore	
	OL-0857-20	33.8	SM	Wet, medium dense, gray, fine SAND and Silt, trace shells, unknown chemical odor (MARL).	Vibracore		
Ī.		OL-0858-01	45.7	SM	Wet, medium dense, fine SAND and Silt, little fine to coarse sub-round gravel, trace shells, unknown chemical odor (MARL).	Vibracore	Marl
5 +		OL-0858-02	37.9	SM	Wet, medium dense, fine SAND and Silt, little fine to coarse sub-round gravel, trace shells, unknown chemical odor (MARL).	Vibracore	
†		OL-0858-03	4.7	SM	0-3 inches: Wet, medium dense, lower case GRAVEL and fine to medium Sand, some silt (GP); Rest of core is wet, medium dense, gray, fine SAND and Silt, trace shells, unknown chemical odor (MARL) (SM).	Vibracore	
		OL-0858-05	29.4	SM	Wet, medium dense, gray, fine SAND and Silt, trace shells, unknown chemical odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30126

Date: 07/22/2009

Weather: Low 80s. Wind 0-5mph NW. Mix Sun/Clouds.

Northing: 1120813.16

Easting: 921268.61

Mud Line: 335.9 Ft Surface Water Depth: 27.3 Ft Driller: Anchor QEA

Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 9.5

Water Elev: 363.2 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 7.6

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0837-07	1.1	SOLW	Wet, very soft, dark greenish-grey to black, SILT and silt-like, petroleum-like odor.	Vibracore	
		OL-0837-08	0.3	SOLW	Wet, very soft, black to dark grey-blue, SILT and silt-like grains, petroleum-like and mothball odor.	Vibracore	Silt
-		OL-0837-10	0.7	SOLW	Wet, very soft, greyish-green, silt-like grains, mothball odor.	Vibracore	
	ľ	OL-0837-11	0.2	SOLW	Wet, very soft, greyish-green to light green, silt-like grains, mothball odor.	Vibracore	
-		OL-0837-12	0.4	SOLW	Wet, soft, greyish-green to black to greyish-white, silt-like grains, mothball odor.	Vibracore	SOLW
5 —		OL-0837-13	0.2	SOLW	Wet, soft, greyish-green, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30126-A

Date: 09/22/2009

Weather: Low 70s mostly cloudy, Winds S 5-10mph

Northing: 1120814.06 Easting: 921270.46

Mud Line: 335.1 Ft

Driller: QEA Logging Company: PARSONS Geologist: SARA CHMURA

Attempts: 2 Depth Units: Ft

Water Elev: 363 Ft

Surface Water Depth: 27.9 Ft

Penetration Depth: 5.00

Core Recovery Depth: 3.70

		Depth: 27.9 F			Depth: 5.00 Core Recovery Depth: 3.70		
Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1024-08	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, trace organics.	Vibracore	
1.0		OL-1024-09	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, trace organics.	Vibracore	Silt

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30127

Date: 07/27/2009

Weather: High 80s, Winds W-SW 5-10mph, partly cloudy

Northing: 1120637.62

Easting: 921272.00 Mud Line: 339.9 Ft

Surface Water Depth: 23.4 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 9

Water Elev: 363.3 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 7.3

Recov	Sample	PID (nnm)	USCS	Soil Description	Sample	Stratum
	OL-0848-06	0.8	ML	Wet, very soft, black, SILT, trace slag, petroleum-like odor.	Vibracore	Silt
	OL-0848-07	0.4	SOLW	Wet, very soft, black to light gray, silt-like grains, mothball odor.	Vibracore	
	OL-0848-09	1.9	SOLW	Wet, very soft, black to light gray, silt-like grains, trace fine sand, 1/4 inch layers at 3-6 inches, mothball-like odor.	Vibracore	
Ĭ.	OL-0848-10	4.5	SOLW	Wet, very soft, black to light gray, silt-like grains, trace fine sand, chunk 4-7.5 inches, mothball odor.	Vibracore	Solvay Waste
	OL-0848-11	1.1	SOLW	Wet, very soft, light gray, silt-like grains, trace fine sand, chunk 8-10 inches, mothball odor.	Vibracore	
	OL-0848-12	1.1	SOLW	Wet, soft to medium stiff, light gray to grayish-green, silt-like grains, mothball odor.	Vibracore	
	Reco	OL-0848-09 OL-0848-10 OL-0848-11	OL-0848-06 0.8 OL-0848-07 0.4 OL-0848-09 1.9 OL-0848-10 4.5	OL-0848-06	OL-0848-06 OL-0848-07 OL-0848-07 OL-0848-07 OL-0848-10 OL-0848-11 OL-084	Wet, very soft, black to light gray, silt-like grains, mothball odor.

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30128

Date: 07/27/2009

Weather: High 80s Winds W-SW 5-10mph, cloudy.

Water Elev: 363.3 Ft

Attempts: 1

Depth Units: Ft

Northing: 1120414.61

Easting: 921288.91 Mud Line: 342.7 Ft Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Surface Water Depth: 20.6 Ft Penetration Depth: 9

Core Recovery Depth: 8

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0847-20	0.7	ML	Wet, very soft, dark gray to black, SILT, trace fine sand, petroleum-like odor.	Vibracore	
*		OL-0848-01	1.8	ML	Wet, very soft, black to grayish green in bottom 1 inch, SILT, trace fine sand, trace slag at 8 inches, petroleum-like odor.	Vibracore	Silt
-		OL-0848-02	2.6	SOLW	Wet, very soft, grayish green to gray to grayish-white, silt-like grains, trace fine sand, chunk from 3-8 inches, mothball odor.	Vibracore	
	ľ	OL-0848-03	1.3	SOLW	Wet, very soft, grayish-white to light green to grayish-white, silt-like grains, chunk from 8-9 inches, mothball odor.	Vibracore	
-		OL-0848-04	0.8	SOLW	Wet, very soft to medium stiff, grayish white, silt-like grains, mothball odor.	Vibracore	Solvay Waste
5 —		OL-0848-05	0.7	SOLW	Wet, soft, grayish white and light brown to light green, silt-like grains, chunk at 1-2 inches and 7.5-8.5 inches, 1/8th inch layers from 4-8 inches, mothball odor.	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30129

Date: 08/24/2009

Weather: High 70s, Winds NW 10-15mph, sun&clouds

Northing: 1126580.53

Easting: 917240.07

Surface Water Depth: 7 Ft

Mud Line: 356.3 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 14.00

Water Elev: 363.3 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 11.70

Depth	Recov	Sample	PID	USCS	0-11 5	Sample	01-1
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1005-01	0	sw	Wet, very loose, light brown and black, fine to medium SAND, trace silt, trace shells (MARL).	Vibracore	
		OL-1005-02	0	sw	Wet, very loose, light brown and black, fine to medium SAND, trace silt, trace shells (MARL).	Vibracore	
		OL-1005-03	0.1	sw	Wet, very loose, light brown and black, fine to medium SAND, trace silt, trace shells (MARL).	Vibracore	
		OL-1005-04	0.1	sw	Wet, very loose, light brown and black, fine to medium SAND, trace silt, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1005-05	0	sw	Wet, very loose, light brown and black, fine to medium SAND, trace silt, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1005-06	0	sw	Wet, very loose, light brown and black, fine to medium SAND, trace silt, trace shells, sulfur odor (MARL).	Vibracore	
	B	OL-1005-07	0	sw	Wet, very loose, light brown and black, fine to medium SAND, trace silt, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1005-08	0	SP	Wet, very loose, greenish-grey, fine SAND, trace silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	Marl
-		OL-1005-09	0.1	SM	Wet, very loose, greenish-grey, fine SAND, some silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1005-10	0.1	ML	Wet, very soft, green-grey, SILT, little fine SAND, trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30129

Date: 08/24/2009

Weather: High 70s, Winds NW 10-15mph, sun&clouds

Water Elev: 363.3 Ft

Attempts: 1

Northing: 1126580.53

Easting: 917240.07

Mud Line: 356.3 Ft

Surface Water Depth: 7 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 14.00

Depth Units: Ft

Core Recovery Depth: 11.70

epth	Recov	Sample	PID	USCS	0.15	Sample	01 1
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
		OL-1005-11	0.1	ML	Wet, very soft, green-grey, SILT, little fine SAND, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1005-12	0.2	ML	Wet, very soft, green-grey, SILT, little fine SAND, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
-							Marl
		OL-1005-13	0.1	ML	Wet, very soft, green-grey, SILT, little fine SAND, trace shells, trace organics, sulfur odor (MARL).	Vibracore	Wall
_		OL-1005-14	0.3	ML	Wet, very soft, green-grey, SILT, little fine SAND, trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30130

Date: 08/21/2009

Weather: Mid 80s, humid, T-storms, Winds SW 5-10mph

Northing: 1124423.75

.73

Driller: QEA

Water Elev: 362.31 Ft

Easting: 918942.26 Mud Line: 335.91 Ft Logging Company: PARSONS Geologist: XIAODONG HUANG Attempts: 1
Depth Units: Ft

Surface Water Depth: 26.4 Ft

Penetration Depth: 14.00

Core Recovery Depth: 10.40

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
		OL-1003-15	0.5	ML	Wet, very soft, dark grey, SILT, little fine sand, organic odor.	Vibracore	
		OL-1003-16	0.3	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, trace organics, organic odor.	Vibracore	
		OL-1003-17	0.5	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, trace organics, organic odor.	Vibracore	
	OL-1003-18 OL-1003-19 OL-1003-20	0.4	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, trace organics, organic odor.	Vibracore	Silt	
		0.5	ML	Wet, very soft, green-grey, SILT, trace fine sand, organic odor.	Vibracore		
		0.6	ML	Wet, very soft, green-grey, SILT, trace fine sand, organic odor.	Vibracore		
		OL-1004-01	0.4	ML	Wet, very soft, green-grey, SILT, trace fine sand, organic odor.	Vibracore	
	OL-1004-02	0.5	SOLW	Wet, very soft, grayish-white and dark grey, silt-like grains, mothball odor.	Vibracore		
	OL-1004-03	0.5	SOLW	Wet, very soft, grayish-white and dark grey, silt-like grains, mothball odor.	Vibracore	Solvay Wasti	
		OL-1004-04	0.5	SOLW	Wet, very soft, grayish-white and dark grey, silt-like grains, mothball odor.	Vibracore	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 10.40

Boring No: OL-VC-30130

Date: 08/21/2009

Weather: Mid 80s, humid, T-storms, Winds SW 5-10mph

Northing: 1124423.75

Easting: 918942.26

Mud Line: 335.91 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: XIAODONG HUANG

Surface Water Depth: 26.4 Ft Penetration Depth: 14.00

Water Elev: 362.31 Ft

Attempts: 1

Depth Units: Ft

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
5		OL-1004-05	0.4	SOLW	Wet, very soft, dark grey and grayish-white, silt-like grains, mothball odor.	Vibracore	
		OL-1004-06	0.5	SOLW	Wet, very soft, dark grey and grayish-white, silt-like grains, mothball odor.	Vibracore	
							Solvay Waste
		OL-1004-07	0.5	SOLW	Wet, very soft, greenish-white and grayish-white, silt-like grains, mothball odor.	Vibracore	
_		OL-1004-08	0.5	SOLW	Wet, soft, grayish-white, silt-like grains, mothball odor.	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30131

Date: 08/21/2009

Weather: Mid 80s, humid, T-storms, Winds SW 5-10mph

Northing: 1124215.62

Easting: 918916.84 Mud Line: 348.11 Ft Driller: QEA Logging Company: PARSONS Geologist: SARA CHMURA Water Elev: 362.31 Ft

Attempts: 1
Depth Units: Ft

Surface Water Depth: 14.2 Ft

Penetration Depth: 14.0

Core Recovery Depth: 12.0

	- T		1	11.000			
Depth	Recov	Sample	PID	USCS	0.115	Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratun
		OL-1001-15		SOLW	Wet, very soft, blue-green, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore	
		OL-1001-16		SOLW	Wet, very soft, blue-green, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore	
		OL-1001-17		SOLW	Wet, very soft, blue-green, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore	
		OL-1001-18		SOLW	Wet, very soft, blue-grey to white, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore	
	OL-1001-19 OL-1001-20 OL-1002-01		SOLW	Wet, very soft, light grey, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore		
			SOLW	Wet, very soft, light grey, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore		
			SOLW	Wet, very soft, grayish-white, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore		
		OL-1002-02		SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	
							Solvay Was
+					Wet, very soft, white, silt-like grains, mothball odor.		
		OL-1002-03		SOLW		Vibracore	
1					Wet, very soft, white, silt-like grains, mothball odor.		
		OL-1002-04		SOLW		Vibracore	
, <u> </u>							

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30131

Date: 08/21/2009

Weather: Mid 80s, humid, T-storms, Winds SW 5-10mph

Northing: 1124215.62 Easting: 918916.84 Driller: QEA

Water Elev: 362.31 Ft

Mud Line: 348.11 Ft

Logging Company: PARSONS Geologist: SARA CHMURA

Attempts: 1
Depth Units: Ft

Surface Water Depth: 14.2 Ft

Penetration Depth: 14.0

Core Recovery Depth: 12.0

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
5		OL-1002-05		SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	
		OL-1002-06		SOLW	Wet, very soft, grayish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore	
							Solvay Waste
		OL-1002-07		SOLW	Wet, very soft, grayish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1002-08		SOLW	Wet, very soft, greenish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30132

Date: 08/21/2009

Weather: Mid 80s, humid, T-storms, Winds SW 5-10mph

Water Elev: 362.31 Ft

Attempts: 1

Depth Units: Ft

Northing: 1124308.03

Easting: 919048.72

Surface Water Depth: 23.5 Ft

Mud Line: 338.81 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: XIAODONG HUANG Penetration Depth: 14.00

Core Recovery Depth: 12.70

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1003-01	0	ML	Wet, very soft, dark grey, SILT, little fine sand, trace shells, trace organics, organic odor.	Vibracore	O:H
		OL-1003-02	0	ML	Wet, very soft, green-grey, SILT, little fine sand, trace shells, trace organics, organic odor.	Vibracore	Silt
		OL-1003-03	0.1	solw	Wet, very soft, greenish-grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1003-04	0.1	SOLW	Wet, very soft, greenish-grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1003-05	0.2	SOLW	Wet, very soft, greenish-grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1003-06	0.1	solw	Wet, very soft, greenish-grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1003-07	0.2	SOLW	Wet, medium-stiff, greenish-grey, silt-like grains, trace fine sand, cementations less than 0.5 inches in diameter throughout, mothball odor.	Vibracore	
		OL-1003-08	0.2	SOLW	Wet, very soft, grayish-white, silt-like grains, mothball odor.	Vibracore	
			_		Wet, very soft, dark grey and grayish-white, silt-like grains, cementations less than 0.5 inches in diameter throughout, mothball		Solvay Wast
		OL-1003-09	0.1	SOLW	odor.	Vibracore	
					Wet, medium-stiff, grayish white, silt-like grains, mothball odor.		
		OL-1003-10	0.1	SOLW		Vibracore	
, ⊥l			L1		1	⊥J	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30132

Date: 08/21/2009

Weather: Mid 80s, humid, T-storms, Winds SW 5-10mph

Northing: 1124308.03

Easting: 919048.72

Mud Line: 338.81 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Water Elev: 362.31 Ft

Attempts: 1

Depth Units: Ft

Depth	Recov	Sample	PID	USCS	Sail Description	Sample	Stratum
Ft	~	ID	(ppm)	Code	Soil Description	Method	Straturi
5.		OL-1003-11	0.2	SOLW	Wet, very soft, grayish-white, silt-like grains, mothball odor.	Vibracore	
		OL-1003-12	0.4	SOLW	Wet, medium-stiff, grayish-white, silt-like grains, cementations less than 0.5 inches in diameter throughout, mothball odor.	Vibracore	
-							Solvay Was
		OL-1003-13	0.3	SOLW	Wet, medium-stiff, grayish-white, silt-like grains, cementations less than 0.5 inches in diameter throughout, mothball odor.	Vibracore	
		OL-1003-14	0.3	SOLW	Wet, medium-stiff, grayish-white, silt-like grains, cementations less than 0.5 inches in diameter throughout, mothball odor.	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30133

Date: 08/21/2009

Weather: Mid 80s, humid, T-storms, Winds SW 5-10mph

Northing: 1123774.31

Easting: 919417.34

Mud Line: 337.2 Ft Surface Water Depth: 25 8 Ft Driller: QEA

Logging Company: PARSONS

Geologist: XIAODONG HUANG

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Surface	Water	Depth: 25.8 F	t Per	netration	Depth: 14.00 Core Recovery Depth: 13.00		
Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1004-09	0.6	ML	Wet, very soft, dark grey, SILT, trace fine sand, organic odor.	Vibracore	
		OL-1004-10	0.5	ML	Wet, very soft, dark grey, SILT, trace fine sand, organic odor.	Vibracore	Cill
	П	OL-1004-11	0.6	ML	Wet, very soft, dark grey, SILT, trace fine sand, organic odor.	Vibracore	Silt
		OL-1004-12	0.3	ML	Wet, very soft, dark grey, SILT, trace fine sand, little cemented chunks (less than 0.5 inches in diameter), organic odor.	Vibracore	
7		OL-1004-13	0.5	SOLW	Wet, very soft, greenish-grey and dark grey, silt-like grains, mothball odor.	Vibracore	
		OL-1004-14	0.5	SOLW	Wet, very soft, greenish-grey and dark grey, silt-like grains, mothball odor.	Vibracore	
		OL-1004-15	0.5	SOLW	Wet, very soft, greenish-grey and dark grey, silt-like grains, mothball odor.	Vibracore	
		OL-1004-16	0.5	SOLW	Wet, very soft, greenish-white and grayish-white, silt-like grains, mothball odor.	Vibracore	
		OL-1004-17	0.4	SOLW	Wet, soft, grayish-white, silt-like grains, cementations less than 0.5 inches in diameter throughout, mothball odor.	Vibracore	Solvay Waste
		OL-1004-18	0.5	SOLW	Wet, very soft, greenish-white and grayish-white, silt-like grains, mothball odor.	Vibracore	
,		. – – – – –					

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30133

Date: 08/21/2009

Weather: Mid 80s, humid, T-storms, Winds SW 5-10mph

Northing: 1123774.31 Easting: 919417.34 Driller: QEA

Water Elev: 363 Ft

Mud Line: 337.2 Ft

Logging Company: PARSONS Geologist: XIAODONG HUANG Attempts: 1
Depth Units: Ft

Surface Water Depth: 25.8 Ft

Penetration Depth: 14.00

Core Recovery Depth: 13.00

Depth	50	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
5		OL-1004-20	0.6	SOLW	Wet, very soft, black and greenish-white, silt-like grains, mothball odor.	Vibracore	
		OL-1004-19	0.4	SOLW	Wet, very soft, black and greenish-white, silt-like grains, mothball odor.	Vibracore	
+					Wet, very soft, dark grey and greenish-white, silt-like grains,		Solvay Wast
		OL-1004-21	0.6	SOLW	mothball odor.	Vibracore	
		OL-1004-22	0.5	SOLW	Wet, very soft, black and dark greenish-grey, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30144

Date: 09/23/2009

Weather: Low 80s, Winds SW 10-15mph, cloudy

Northing: 1126688.30

Easting: 917731.99 Mud Line: 334.1 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA Water Elev: 363 Ft

Attempts: 1
Depth Units: Ft

Surface Water Depth: 28.9 Ft

Penetration Depth: 7.00

Core Recovery Depth: 5.60

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1025-17	0	ML	Wet, very soft, grey-brown, SILT, trace fine sand.	Vibracore	
		OL-1025-18	0	ML	Wet, very soft, grey-brown, SILT, trace fine sand.	Vibracore	
		OL-1025-19	0	ML	Wet, very soft, brown to grey-brown, SILT, trace fine sand, trace organics, slight petroleum-like odor.	Vibracore	
		OL-1025-20	0	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace organics, slight petroleum-like odor.	Vibracore	Silt
		OL-1026-01	0	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace organics, grey fine sand and silt seam from 7 to 7.25 inches, slight petroleum-like odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30145

Date: 09/23/2009

Weather: Low 80s, Winds SW 10-15mph, cloudy

Northing: 1126561.07

Easting: 917644.92

Surface Water Depth: 18.9 Ft

Mud Line: 344.1 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: SARA CHMURA

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Penetration Depth: 7.00 Core Recovery Depth: 5.70

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1025-12	0	SM	Wet, very loose, dark brown, fine SAND, some silt, trace shells (MARL).	Vibracore	
		OL-1025-13	0	ML	Wet, very soft, dark brown, SILT, little fine sand, trace shells, slight petroleum-like odor.	Vibracore	Fine Sand
-		OL-1025-14	0	ML	Wet, very soft, dark brown, SILT, trace fine sand, slight petroleum-like odor, trace shells in bottom half inch.	Vibracore	Silt
		OL-1025-15	0	SP	0 to 4 inches, is wet, loose, dark grey, fine SAND, trace silt, trace shells, slight petroleum-like odor. 4 to 10 inches is wet, very soft, dark grey, SILT, little fine sand, trace organics (ML). 10 to 12 inches is wet, loose, dark grey, fine SAND, trace silt, trace shells, slight petroleum-like odor.	Vibracore	Fine Sand
		OL-1025-16	0	ML	Wet, very soft, dark grey, SILT, little to trace fine sand, slight petroleum-like odor, rainbow sheen from 8 to 10 inches, trace shells.	Vibracore	Silt

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30146

Date: 09/28/2009

Weather: Low 70s, sun&clouds, Winds 10-20 mph

Core Recovery Depth: 6.60

Northing: 1124338.91

Easting: 918768.88

Surface Water Depth: 18.5 Ft

Mud Line: 344.6 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: SARAH CHMURA

Penetration Depth: 7.00

Water Elev: 363.1 Ft

Attempts: 1

Depth Units: Ft

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1030-01	0	SOLW	Wet, soft, blue-gray, silt-like grains, trace fine sand, trace zebra mussels, large SOLW chunk from 2 to 5 inches, mothball odor.	Vibracore	
		OL-1030-02	0	SOLW	Wet, very soft, black to gray, silt-like grains, trace fine sand, some small SOLW chunks less than 0.25 inches in diameter, mothball odor.	Vibracore	
		OL-1030-03	0	SOLW	Wet, very soft, light green, silt-like grains, trace organics, mothball odor.	Vibracore	
		OL-1030-04	0	SOLW	Wet, very soft, light green, silt-like grains, trace fine sand, mothball odor.	Vibracore	Solvay Wast
1		OL-1030-05	0	SOLW	Wet, very soft, white, silt-like grains, trace fine sand, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30147

Date: 09/28/2009

Weather: Low 70s, sun&clouds, Winds 10-20 mph

Northing: 1124389.24

Easting: 918988.43 Mud Line: 336.6 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARAH CHMURA

Attempts: 1
Depth Units: Ft

Water Elev: 363.1 Ft

Surface Water Depth: 26.5 Ft

Penetration Depth: 7.00

Core Recovery Depth: 6.20

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1030-06	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, trace organics, slight sulfur odor.	Vibracore	
		OL-1030-07	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, trace organics, slight petroleum-like odor.	Vibracore	Silt
Ť	ľ				Top 5 inches: Wet, very soft, gray-brown, SILT, trace fine sand, trace organics, slight petroleum-like odor. Rest of core is wet, very soft, blue-gray, silt-like grains, mothball odor.		
		OL-1030-08	0	SOLW		Vibracore	
		OL-1030-09	0	SOLW	Wet, very soft, blue-gray, silt-like grains, mothball odor.	Vibracore	Solvay Wast
		OL-1030-10	0	SOLW	Wet, very soft, dark gray and black, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30148

Date: 09/24/2009

Weather: Low 70s, sun&clouds, Winds N-NW 10-15mph

Northing: 1124180.29

Easting: 918935.27 Mud Line: 349.8 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA Water Elev: 363.1 Ft Attempts: 1

Depth Units: Ft

Surface Water Depth: 13.3 Ft

Penetration Depth: 7.00

Core Recovery Depth: 6.70

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1028-06	0.3	SOLW	Wet, very soft, blue-gray to dark gray, silt-like grains, trace fine sand, mothball odor.	Vibracore	
	ľ	OL-1028-07	0.3	SOLW	Wet, very soft, dark gray to grayish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1028-08	0.2	SOLW	Wet, very soft, grayish white, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1028-09	0.1	SOLW	Wet, very soft, grayish white, silt-like grains, trace fine sand, mothball odor.	Vibracore	Solvay Was
	OL-1028-11	0.3	SOLW	Wet, very soft, light green to grayish white, silt-like grains, trace fine sand, mothball odor.	Vibracore		

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30149

Date: 09/24/2009

Weather: Low 70s, sun&clouds, Winds N-NW 10-15mph

Northing: 1124058.80

Easting: 919098.69 Mud Line: 347.5 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA Water Elev: 363.1 Ft

Attempts: 1
Depth Units: Ft

Surface Water Depth: 15.6 Ft

Penetration Depth: 7.00

Core Recovery Depth: 5.90

Depth	9	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1029-01	0	SOLW	Wet, very soft, gray-blue, silt-like grains, trace fine sand, some small SOLW chunks less than 0.25 inches in diameter, mothball odor.	Vibracore	
		OL-1029-02	0	SOLW	Wet, very soft, grayish-white, silt-like grains, mothball odor.	Vibracore	
	OL-1029-03	0	SOLW	Wet, very soft, grayish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore		
		OL-1029-04	0	SOLW	Wet, very soft, grayish-white to light green, silt-like grains, trace organics, trace fine sand, hard SOLW layer from 3-5 inches, mothball odor.	Vibracore	Solvay Wast
		OL-1029-05	0	SOLW	Wet, very soft, grayish-white, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30150

Date: 09/28/2009

Weather: Low 70s, sun&clouds, Winds S-SE 10-20 mph

Northing: 1124135.27

Easting: 919220.13 Mud Line: 338.1 Ft Driller: QEA Logging Company: PARSONS Geologist: SARAH CHMURA Water Elev: 363.1 Ft Attempts: 1

Depth Units: Ft

Surface Water Depth: 25 Ft

Penetration Depth: 7.00 Core Recovery Depth: 6.80

Depth	ò	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1030-11	0	SOLW	Wet, dark-gray, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1030-12	0	SOLW	Wet, very soft, dark-gray to black, silt-like grains, mothball odor.	Vibracore	
OL-1030-13	0	SOLW	Wet, very soft, blue-gray, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore			
	OL-1030-15	0	SOLW	Wet, very soft, white, silt-like grains, mothball odor.	Vibracore	Solvay Was	
		OL-1030-16	0	SOLW	Wet, very soft, grayish-white to light green, silt-like grains, trace fine sand, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30151

Date: 09/24/2009

Weather: Low 70s, sun&clouds, Winds N-NW 10-15mph

Northing: 1123895.36

Easting: 919154.05 Mud Line: 349.1 Ft

Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Water Elev: 363.1 Ft Attempts: 1

Depth Units: Ft

Surface Water Depth: 14 Ft

Penetration Depth: 7.00

Core Recovery Depth: 4.10

Depth	9	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1029-06	0.1	SM	Wet, very loose, dark gray, fine SAND, little silt, trace organics, slight mothball odor.	Vibracore	Silt
		OL-1029-07	0.1	SOLW	Wet, very soft, dark grey to light grey, silt-like grains, trace fine sand, trace organics, some small SOLW chunks less than 0.25 inches in diameter, mothball odor.	Vibracore	
-		OL-1029-08	0	SOLW	Wet, very soft, grayish-white to light green, silt-like grains, trace fine sand, trace small SOLW chunks less than 0.25 inches in diameter, mothball odor.	Vibracore	
		OL-1029-10	0.4	SOLW	Wet, very soft grayish-white and light green, silt-like grains, mothball odor.	Vibracore	Solvay Wast
	OL-1029-11	0.3	SOLW	Wet, very soft grayish-white, silt-like grains, mothball odor.	Vibracore		

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30152

Date: 09/28/2009

Weather: Low 70s, sun&clouds, Winds S-SE 10-20 mph

Northing: 1123964.49

Easting: 919284.09

Mud Line: 337.6 Ft Surface Water Depth: 25.5 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARAH CHMURA

Penetration Depth: 7.00

Water Elev: 363.1 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 6.70

Depth	9	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1030-17	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, slight petroleum-like odor.	Vibracore	
		OL-1030-18	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, slight petroleum-like odor.	Vibracore	Silt
		OL-1030-19	0	SOLW	Wet, very soft, black and green, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1030-20	0	SOLW	Wet, very soft, white, silt-like grains, trace fine sand, mothball odor.	Vibracore	Solvay Wasti
_		OL-1031-01	0	SOLW	Wet, soft, grayish-white, silt-like grains, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30153

Date: 09/23/2009

Weather: Low 80s, cloudy, Winds, SW 10-15mph

Northing: 1123003.92

Easting: 920043.19 Mud Line: 346.2 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA Water Elev: 363 Ft Attempts: 1

Depth Units: Ft

Surface Water Depth: 16.8 Ft

Penetration Depth: 7.00

Core Recovery Depth: 3.90

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1027-01	0	SOLW	Wet, soft, gray-blue to gray, silt-like grains, mothball odor.	Vibracore	
		OL-1027-02	0	SOLW	Wet, soft, grayish white, silt-like grains, mothball odor.	Vibracore	
		OL-1027-03	0	SOLW	Wet, soft, grayish-white, silt-like grains, mothball odor	Vibracore	Solvay Wasti
		OL-1027-04	0	SOLW	Wet, soft, grayish white, silt-like grains, mothball odor.	Vibracore	Guivay vvasi
		OL-1027-05	0	SOLW	Wet, medium stiff, grayish white, silt-like grains, trace fine sand, mothball odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30154

Date: 09/23/2009

Weather: Low 80s, cloudy, Winds, SW 10-15mph

Northing: 1123042.91

Easting: 920047.22

Surface Water Depth: 21.3 Ft

Mud Line: 341.7 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: SARA CHMURA

Penetration Depth: 7.00 Core Recovery Depth: 7.00

Water Elev: 363 Ft

Attempts: 1
Depth Units: Ft

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1027-06	0	SOLW	Wet, very soft, grayish-white, silt-like grains, trace fine sand, some zebra mussels in top 2 inches, mothball odor.	Vibracore	
		OL-1027-07	0	SOLW	Wet, very soft, grayish-white, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1027-08	0	SOLW	Wet, very soft, grayish-white, silt-like grains, mothball odor.	Vibracore	
		OL-1027-10	0	SOLW	Wet, very soft, grayish-white, silt-like grains, mothball odor.	Vibracore	Solvay Wasi
-		OL-1027-11	0	SOLW	Wet, very soft, grayish-white, silt-like grains, black discoloration with small SOLW chunks from 4-5 inches, mothball odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30155

Date: 09/22/2009

Weather: Low 70s, mostly cloudy, Winds S 5-10mph

Northing: 1120818.04

Easting: 921155.24 Mud Line: 341.2 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Water Elev: 363 Ft Attempts: 1

Depth Units: Ft

Surface Water Depth: 21.8 Ft

Penetration Depth: 7.00

Core Recovery Depth: 5.90

Depth	6	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1023-11	0	SOLW	Wet, very soft, dark grey, silt-like grains, trace fine sand, trace thin SOLW chunks (1cm thick), mothball odor.	Vibracore	
		OL-1023-12	0	SOLW	Wet, very soft, dark grey, silt-like grains, trace fine sand, trace thin SOLW chunks (1cm thick), mothball odor.	Vibracore	
	OL-1023-13	0	less th	Wet, very soft, grey-green, silt-like grains, trace SOLW chunks less than 0.25 inches in diameter, mothball odor.	Vibracore		
	OL-1023-15	0	SOLW	Wet, very soft, white, silt-like grains, trace fine sand, mothball odor.	Vibracore	Solvay Was	
		0	SOLW	Wet, very soft, grey and white, silt-like grains, some small SOLW chunks less than 0.25 inches in diameter, mothball odor.	Vibracore		

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-30156

Date: 09/22/2009

Weather: Low 70s, mostly cloudy, Winds S 5-10mph

Northing: 1120921.42

Easting: 921194.43 Mud Line: 335.5 Ft

Surface Water Depth: 27.5 Ft

Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Penetration Depth: 7.00

Water Elev: 363 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 6.50

Depth	Recov	Sample	PID	USCS	0.115	Sample	0 , ,
Ft	8	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1023-17	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand.	Vibracore	
		OL-1023-18	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand.	Vibracore	
-		OL-1023-19	0	ML	Wet, very soft, grey brown to black with brown, SILT, trace fine sand, slight petroleum-like odor, trace organics.	Vibracore	Silt
		OL-1023-20	0	ML	Wet, very soft, black, SILT, trace fine sand, slight petroleum-like and mothball odor.	Vibracore	
		OL-1024-01	0	SOLW	Wet, very soft, dark grey, silt-like grains, trace SOLW chunks less than 0.25 inches in diameter, mothball odor.	Vibracore	Solvay Waste

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40213

Date: 07/30/2009

Weather: Low 80, sun&clouds, Winds W-NW 5-10mph

Northing: 1126493.08

Easting: 914345.01

Surface Water Depth: 7 Ft

Mud Line: 356.1 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: D Burkert

Penetration Depth: 7

Water Elev: 363.1 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 5.4

Depth	Recov	Sample	PID	USCS		Sample	. .
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
		OL-0856-01	0.8	ML	Wet, very soft, gray, SILT, some fine sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0856-02	1.1	ML	Wet, very soft, gray, SILT, some fine sand, trace oncolites, sulfur odor (MARL).	Vibracore	
		OL-0856-04	1.3	ML	Wet, very soft, gray, SILT, some fine sand, trace shells, trace clay, sulfur cdor (MARL).	Vibracore	Marl
		OL-0856-05	1.9	ML	Wet, very soft, gray, SILT, little fine sand, trace clay (clay content increasing with depth), trace oncolites (35% oncolites from 0-2 inches), trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40214

Date: 07/31/2009

Weather: Low 70s, mostly cloudy, Winds SW 5-10mph

Northing: 1126247.19

Easting: 914509.76

Surface Water Depth: 5.9 Ft

Mud Line: 357.2 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: D Burkert

Penetration Depth: 7

Water Elev: 363.1 Ft

Attempts: 1
Depth Units: Ft

Core Recovery Depth: 6.1

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0856-06	5.6	ML	Wet, very soft, gray, SILT, little fine to medium sand, little clay, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
	OL-0856-07	13.7	ML-CL	Wet, very soft, gray, SILT AND CLAY, little fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore		
	OL-0856-08	4.6	ML-CL	Wet, very soft, gray, SILT AND CLAY, little fine sand, trace oncolites, trace shells, sulfur odor (MARL).	Vibracore	Mari	
	OL-0856-09	7.9	ML-CL	Wet, very soft, gray, SILT AND CLAY, little fine sand, trace oncolites, trace shells, sulfur odor (MARL).	Vibracore		

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40215

Date: 08/12/2009

Weather: Low 80s. Wind 5-10 NNW. Mix Sun/Cloud/Rain.

Water Elev: 363.9 Ft

Attempts: 2

Depth Units: Ft

Northing: 1126082.85

Easting: 914634.81

Mud Line: 359.9 Ft

Surface Water Depth: 4 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12

Core Recovery Depth: 10.5

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	Reading	Code	Soil Description	Method	Stratum
0		OL-0882-10	0	ML	0-3 inches is wet, very soft, black, SILT, trace medium sand, trace organics, petroleum-like odor (ML). Rest of core is wet, very soft, gray, SILT, slight petroleum-like odor (ML).	Vibracore	0.11
	OL-0882	OL-0882-11	0	ML	0-11 inches is wet, very soft, black, SILT, petroleum-like odor (ML). Bottom 1 inch is wet, very soft, light brown, SILT, little medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	Silt
		OL-0882-12	0	SM	Wet, very loose, light brown, fine to medium SAND, some silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
7		OL-0882-13	0	SM	Wet, very loose, light brown, fine to medium SAND, some silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
	OL-0882-14	0	SM	Wet, very loose, light brown, fine to medium SAND, some silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore		
		OL-0882-15	0	SM	Wet, very loose, light brown, fine to medium SAND, some silt, trace shells, cemented chunks at 11 to 12 inches (MARL).	Vibracore	
†		OL-0882-16	0	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	Marl
		OL-0882-17	0	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0882-18	0	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0882-19	0	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40216

Date: 08/12/2009

Weather: Low 80s. Wind 5-10 NNW. Mix Sun/Cloud/Rain.

Water Elev: 363.9 Ft

Attempts: 3

Depth Units: Ft

Northing: 1125992.9

Easting: 914583.23

Mud Line: 361.1 Ft Surface Water Depth: 2.7 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12

Core Recovery Depth: 8.8

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	Reading	Code	Soil Description	Method	Stratum
0		OL-0882-20	0	sw	0-5 inches is wet, very soft, black, SILT, little organics, organic odor (ML). Rest of core is wet, very loose, light gray, fine to medium sand, some oncolites, sulfur odor (MARL).	Vibracore	Silt
1		OL-0883-01	0	ML	Wet, very soft, light gray, SILT, little oncolites, trace fine to medium sand, trace organics, trace shells, sulfur odor (MARL).	Vibracore	
1	Ĭ	OL-0883-02	0	ML	Wet, very soft, light gray, SILT, some fine to medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
İ		OL-0883-03	0	ML	Wet, very soft, light gray, SILT, little shells, trace fine to medium sand, trace organics, sulfur odor (MARL).	Vibracore	
		OL-0883-04	0	ML	0-10 inches is wet, very soft, light gray SILT, trace fine to medium sand, trace shells, sulfur odor (MARL). Rest of core is wet, very loose, gray, fine to medium SAND, some oncolites, trace silt, sulfur odor (MARL) (SW).	Vibracore	Marl
5 —		OL-0883-05	0	ML	Wet, very soft, light gray, SILT, trace fine to medium sand, trace oncolites, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
†		OL-0883-06	0	ML	Wet, very soft, light gray, SILT, trace fine to medium sand, trace oncolites, trace shells, trace organics, suulfur odor (MARL).	Vibracore	
Ť		OL-0883-07	0	ML	Wet, very soft, light gray, SILT, trace fine to medium sand, trace oncolites, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
†		OL-0883-08	0	ML	Wet, very soft, light gray, SILT, trace fine to medium sand, trace shells, trace clay, trace organics, slight sulfur odor, (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 9.2

Boring No: OL-VC-40217

Date: 08/03/2009

Weather: Low 80s, mostly sunny, Winds S-SW 5-10mph

Northing: 1125907.94

Easting: 914684.74

Mud Line: 362.2 Ft

Surface Water Depth: 1 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: H PHILIP

Penetration Depth: 10

Water Elev: 363.2 Ft

Attempts: 1

Depth Units: Ft

Depth	So	Sample	PID	USCS	100 (0.00)	Sample	1
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0859-01	0.5	ML	Wet, very soft, dark grey, SILT,trace fine sand, trace shells, slight sulfur odor (MARL).	Vibracore	Marl
# · ·		OL-0859-02	0.5	SOLW	Wet, very soft, grey, silt-like grains,trace organics, slight mothball odor.	Vibracore	
İ		OL-0859-03	0.3	SOLW	Wet, very soft, grey, silt like grains, trace fine sand, trace organics, slight mothball odor.	Vibracore	Solvay Waste
+		OL-0859-04	0.2	SOLW	Wet, very soft, grey, silt-like grains, fine sand seam from 4-7 inches, mothball and slight petroleum-like odors.	Vibracore	
1		OL-0859-05	1.1	ML	Wet, very soft, dark grey, SILT, trace organics, slight petroleum-like odor.	Vibracore	Silt
+		OL-0859-06	0.5	ML/SM	0-4 inches is wet, very soft, dark grey, SILT, trace organics, slight petroleum-like odor. Rest of core is wet, very loose, light grey, fine to medium SAND, some silt, little shells, sulfur odor, (MARL).	Vibracore	
†		OL-0859-07	1.3	SM	0-3 inches is wet, very loose, light grey, fine to medium SAND, some silt, little shells, mothball odor, (MARL). 3-10 inches is wet, loose, dark grey, fine SAND, some silt, organic odor. Bottom 2 inches is wet, very loose, light grey, fine to medium SAND, some silt, little shells, sulfur odor, (MARL).	Vibracore	
†		OL-0859-08	1.9	SW	Wet, loose, light grey, fine to medium SAND, trace silt, little shells, sulfur odor, (MARL).	Vibracore	Marl
†		OL-0859-09	4.8	SW	Wet, loose, light grey, fine to medium SAND, trace silt, little shells, sulfur odor, (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40218

Date: 08/20/2009

Weather: High 80s. Wind 5-10 SSE. Sun/Clouds/Rain.

Water Elev: 362.9 Ft

Attempts: 4
Depth Units: Ft

Northing: 1125972.42

Easting: 914795.06

Mud Line: 361.2 Ft Surface Water Depth: 1.7 Ft **Driller: Atlantic Testing**

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 15

Core Recovery Depth: 13.7

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	Reading	Code	Soil Description	Method	Stratum
0		OL-0898-12	0.3	ML	Wet, very soft, grey and dark grey, SILT, little clay, trace organics, slight organic odor.	Vibracore	
		OL-0898-13	0.4	ML	Wet, very soft, grey and dark grey, SILT, little clay, slight organic odor.	Vibracore	Silt
		OL-0898-14	0.7	SOLW	Wet, very soft, greyish-white to grey, laminated, silt-like grains, trace fine sand, trace organics, slight mothball odor.	Vibracore	Solvay Waste
		OL-0898-15	1.4	MĹ	0 to 4 inches is wet, very soft, greyish-white to grey, laminated, silt-like grains, trace fine sand, trace organics, slight mothball odor (SOLW). Rest of core is wet, very soft, grey, SILT, trace fine sand, trace clay, trace organics, slight organic odor (ML).	Vibracore	
Ť		OL-0898-16	1.3	ML	Wet, very soft, dark grey, SILT, trace clay, slight organic odor.	Vibracore	
5 +		OL-0898-17	0.6	ML	Wet, very soft, dark grey, SILT, little clay, slight organic odor.	Vibracore	
		OL-0898-18	1	ML	Wet, very soft, dark grey and grey, SILT, little clay, slight organic odor.	Vibracore	Silt
		OL-0898-19	0.9	ML	Wet, very soft, dark grey and grey, SILT, little clay, trace organics, slight organic odor.	Vibracore	
		OL-0898-20	0.3	ML	Wet, very soft, dark grey and black, SILT, trace fine sand, trace clay, slight organic odor.	Vibracore	
		OL-0898-21	0.3	ML	Wet, very soft, dark grey and black, SILT, trace fine sand, trace clay, slight organic odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40219

Date: 08/19/2009

Weather: Mid 80s. Wind 5-15 NW. Mix Sun/Cloud.

Water Elev: 363 Ft

Attempts: 2

Depth Units: Ft

Northing: 1126045.13 Easting: 914782.46

Mud Line: 360.4 Ft

Surface Water Depth: 2.6 Ft

Driller: Atlantic Testing

Logging Company: PARSONS Geologist: XIAODONG HUENG

Penetration Depth: 15

Core Recovery Depth: 13.4

Depth	Recov	Sample	PID	USCS	Soil Description	Sample	Stratum
Ft	œ	ID	(ppm)	Code	A COLUMN COMPACT	Method	Otratam
0		OL-0898-01	0.7	ML	Wet, very soft, dark grey and grey, laminated, SILT, trace fine sand, trace organics, slight organic odor.	Vibracore	
		OL-0898-03	0.2	ML	Wet, very soft, dark grey and grey, laminated, SILT, trace fine sand, trace clay, slight organic odor.	Vibracore	
Ī		OL-0898-02	0.3	ML	Wet, very soft, dark grey and grey, laminated, SILT, trace fine sand, trace clay, slight organic odor.	Vibracore	
7		OL-0898-05	0.2	ML	Wet, very soft, dark grey and grey, SILT, some clay, trace fine gravel, trace fine sand, slight organic odor.	Vibracore	
-		OL-0898-06	0.3	ML	Wet, very soft, dark grey and grey, SILT, some clay, trace fine gravel, trace fine sand, slight organic odor.	Vibracore	
5		OL-0898-07	0.1	ML	Wet, very soft, dark grey and grey, SILT, some clay, trace fine sand, slight organic odor.	Vibracore	Silt
		OL-0898-08	0.2	ML	Wet, very soft, grey and dark grey, laminated, SILT, some clay, trace fine sand, slight organic odor.	Vibracore	
		OL-0898-09	0.1	ML	Wet, very soft, grey and dark grey, laminated, SILT, some clay, trace fine sand, slight organic odor.	Vibracore	
-		OL-0898-10	0.2	ML	Wet, very soft, grey and dark grey, laminated, SILT, some clay, trace fine sand, slight organic odor.	Vibracore	
		OL-0898-11	0.2	ML	Wet, very soft, grey and dark grey, laminated, SILT, some clay, trace fine sand, slight organic odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40220

Date: 08/17/2009

Weather: Mid 90s. Wind 5-10 WNW. Sunny. Humid.

Water Elev: 363.4 Ft

Attempts: 2

Depth Units: Ft

Northing: 1125803.68

Easting: 914821.03 Mud Line: 358.6 Ft Driller: Anchor QEA

Penetration Depth: 15

Logging Company: PARSONS Geologist: SARA CHUMURA

Core Recovery Depth: 14.2

Surface Water Depth: 4.8 Ft

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0890-12	0.1	ML	Wet, very soft, dark grey, SILT, slight petroleum-like odor, black fine sand seam from 2 to 3 inches.	Vibracore	
		OL-0890-13	0	ML	Wet, very soft, dark grey, SILT, slight petroleum-like odor.	Vibracore	Silt
		OL-0890-14	0.1	ML	Top 7 inches is wet, very soft, dark grey, SILT, slight petroleum-like odor. Rest of core is wet, very soft, light grey, SILT, little fine sand, trace shells, sulfur odor, (MARL).	Vibracore	
1		OL-0890-15	0.4	SM	Wet, very soft, dark grey, SILT, some fine sand, trace shells, sulfur odor, black silt seam from 7 inches to 7.5 inches, little oncolites, (MARL).	Vibracore	
+	-	OL-0890-16	0.4	ML	Wet, very soft, light grey, SILT, little fine sand, trace shells, trace organics, slight sulfur odor, (MARL).	Vibracore	
5 +	OL-0890-17	17.9	ML	Wet, very soft, light grey, SILT, little fine sand, trace shells, trace organics, slight sulfur odor, (MARL).	Vibracore		
OL-08	OL-0890-18	0.6	ML	Wet, very soft, light grey, SILT, little fine sand, trace shells, trace organics, slight sulfur odor, (MARL).	Vibracore	Mari	
		OL-0890-19	0.5	ML	Wet, very soft, light grey, SILT, little fine sand, trace shells, trace organics, slight sulfur odor, (MARL).	Vibracore	
		OL-0890-20	1.2	ML	Wet, very soft, light grey, SILT, little fine sand, trace shells, slight sulfur odor, (MARL).	Vibracore	
		OL-0891-01	2.1	ML	Wet, very soft, light grey, SILT, little fine sand, trace shells, slight sulfur odor, (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40221

Date: 08/17/2009

Weather: Mid 90s. Wind 5-10 WNW. Sunny. Humid

Water Elev: 363.4 Ft

Attempts: 1

Depth Units: Ft

Northing: 1125921.86

Easting: 914855.67 Mud Line: 357 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARA CHUMURA

Surface Water Depth: 6.4 Ft

Penetration Depth: 15 Core Recovery Depth: 12

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0890-01	0	ML	Wet, very soft, dark grey, SILT, slight petroleum-like odor.	Vibracore	
		OL-0890-03	o	ML	Wet, very soft, dark grey, SILT, petroleum-like odor, trace organics.	Vibracore	Silt
		OL-0890-02	0	ML	Wet, very soft, dark grey to grey, SILT, some fine sand in bottom 6 inches, trace shells in bottom 6 inches, sulfur odor, (MARL).	Vibracore	
Ī		OL-0890-04	0.1	ML-SM	Wet, very soft, grey, SILT, some fine sand, trace shells, sulfur odor, (MARL).	Vibracore	
İ		OL-0890-06	0.2	ML-SM	Wet, very soft, grey, SILT, some fine sand, trace shells, trace oncolites, sulfur odor, (MARL).	Vibracore	
-	OL-0890-07	OL-0890-07	0	ML-SM	Wet, very soft, grey, SILT, some fine sand, trace shells, sulfur odor, (MARL).	Vibracore	
		OL-0890-08	0.4	ML-SM	Wet, very soft, grey, SILT, some fine sand, trace shells, sulfur odor, (MARL).	Vibracore	Marl
t		OL-0890-09	0.7	ML	Wet, very soft, grey, SILT, little fine sand, trace shells, sulfur odor, (MARL).	Vibracore	
Ť		OL-0890-10	1.8	ML-SM	Wet, very soft, grey, SILT, some fine sand, trace shells, trace organics, sulfur odor, (MARL).	Vibracore	
		OL-0890-11	0.7	ML-SM	Wet, very soft, grey, SILT, some fine sand, trace shells, sulfur odor, (MARL), bottom 3 inches has some oncolites.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40222

Date: 08/18/2009

Weather: High 80s. Wind 10-15 NW. Humid. T-Storms.

Water Elev: 363.3 Ft

Attempts: 1

Depth Units: Ft

Northing: 1125922.95

Easting: 914895.40

Surface Water Depth: 5.7 Ft

Mud Line: 357.6 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 15

Core Recovery Depth: 13

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0895-01	0	ML	Wet, very soft, grey, SILT, little clay, trace fine gravel, trace fine sand, trace organics, slight organic odor.	Vibracore	
		OL-0895-02	0	ML-CL	Wet, very soft, grey, SILT and Clay, trace fine gravel, trace fine to medium sand, trace shells, trace organics, slight organic odor, (MARL).	Vibracore	Silt
Ť		OL-0895-04	1.2	ML	O to 8 inches is wet, very soft, grey, SILT, little clay, trace fine gravel, trace fine sand, trace organics, slight organic odor (ML). Rest of core is wet, very loose, light grey, fine to medium SAND, some oncolites, trace silt, sulfur odor, (MARL) (SW).	Vibracore	
+		OL-0895-05	1.6	sw	Wet, very loose, light brown, fine to medium SAND, trace silt, trace shells, sulfur odor, (MARL).	Vibracore	
1	5 +	OL-0895-06	1.8	SW	Wet, very loose, light brown, fine to medium SAND, little silt, trace shells, sulfur odor, (MARL).	Vibracore	
5		OL-0895-07	4.8	sw	Wet, very loose, light brown, fine to medium SAND, little silt, trace shells, sulfur odor, (MARL).	Vibracore	
	OL-0895-08	1.1	SW	Wet, very loose, light brown, fine to medium SAND, little silt, trace shells, sulfur odor, (MARL).	Vibracore	Marl	
†		OL-0895-09	1.7	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor, (MARL).	Vibracore	
†		OL-0895-10	2.2	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor, (MARL).	Vibracore	
-		OL-0895-11	1	ML	0 to 8 inches is wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor. Rest of core is wet, very loose, light brown, fine to coarse SAND, trace silt, trace shells, sulfur odor, (MARL) (SW).	Vibracore	

Page 1 of 1

Driller: Anchor QEA



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40223

Date: 08/18/2009

Weather: High 80s. Wind 10-15 NW. Humid. T-Storms.

Northing: 1125934.31 Easting: 914936.43

Mud Line: 361.3 Ft

Logging Company: PARSONS Geologist: XIAODONG HUANG Attempts: 2 Depth Units: Ft

Water Elev: 363.3 Ft

Surface Water Depth: 2 Ft

Penetration Depth: 15

Core Recovery Depth: 12.6

Depth	00	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0895-12	0.1	ML	Wet, very soft, gray to light gray, SILT, trace fine sand, trace clay, trace organics, slight organic odor.	Vibracore	Silt
		OL-0895-13	0	ML-CL	Wet, very soft, gray to light gray, SILT and Clay, trace organics, slight organic odor.	Vibracore	
Ť		OL-0895-14	0.1	ML-CL	Wet, very soft, black to gray, SILT and Clay, trace fine to medium sand, trace organics, trace shells at bottom 2 inches.	Vibracore	Silt and Clay
1		OL-0895-15	0.3	MĹ	0-3 inches: Wet, very soft, black to gray, SILT and Clay, trace fine to medium sand, trace organics, trace shells (ML-CL). 3-4 inches: Wet, very loose, light brown, fine to medium SAND, trace silt, trace shells, sulfur odor, (MARL). 4-12 inches: Wet, very soft, black, SILT, some clay, trace organics, organic odor (ML).	Vibracore	
		OL-0895-16	0.2	ML	0-7 inches: Wet, very soft, black, SILT, trace fine to medium sand, trace clay, trace organics, organic odor (ML). 7-12 inches: Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor, (MARL) (ML).	Vibracore	
5 —	OL-0895-17	OL-0895-17	1.2	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor, (MARL).	Vibracore	
Ī		OL-0895-18	0.6	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor, (MARL).	Vibracore	Marl
		OL-0895-19	1.3	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor, (MARL).	Vibracore	
		OL-0895-20	0.5	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor, (MARL).	Vibracore	
		OL-0896-01	5	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor, (MARL).	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40224

Date: 08/17/2009

Weather: Mid 90s. Wind 5-10 WNW. Sunny. Humid.

Northing: 1125747.75

Easting: 915151.24 Mud Line: 362.1 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARA CHUMURA Water Elev: 363.4 Ft

Attempts: 1
Depth Units: Ft

Surface Water Depth: 1.3 Ft

Penetration Depth: 7

Core Recovery Depth: 5.6

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0891-07	0.1	ML	Wet, very soft, black, SILT, trace fine sand, trace clay, trace organics, sulfur odor.	Vibracore	Silt
		OL-0891-08	1.1	ML	0 to 10 inches is wet, very soft, black, SILT, trace fine sand, trace clay, trace organics, sulfur odor. Rest of core is wet, loose, light grey, SILT, little fine sand, some oncolites, trace shells, sulfur odor, (MARL) (ML).	Vibracore	
	OL-0891-09	0.8	ML-SM	Wet, very soft, grey, SILT, some fine sand, some oncolites, trace organics, trace shells, sulfur odor, (MARL).	Vibracore	Mari	
4.0		OL-0891-10	1.5	ML-SM	Wet, very soft, grey, SILT, some fine sand, some oncolites, trace organics, trace shells, sulfur odor, (MARL).	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40225

Date: 07/30/2009

Weather: Low 80s, Winds W-NW 5-10mph, sun&clouds

Northing: 1125644.76

Easting: 915111.69

Mud Line: 362.6 Ft

Surface Water Depth: 0.5 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: D Burkert

Penetration Depth: 5

Water Elev: 363.1 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 3.8

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0	OL-0856-10 OL-0856-11	9.5	ML-CL	Wet, soft, black, SILT and Clay, trace organics (roots), slight petroleum-like odor.	Vibracore	Silt and Clay	
		OL-0856-11	16.8	ML-CL	0-8 inches: Wet, soft, black, SILT and Clay, sulfur odor (ML-CL); Rest of core is wet, medium stiff, gray, SILT, some oncolites, trace shells, sulfur odor (MARL) (ML).	Vibracore	
	1.2	OL-0856-12	26.7	ML	Wet, soft to medium stiff, gray, SILT, little fine sand, some oncolites (1/4 inch -1 inch size), trace shells, sulfur odor (MARL).	Vibracore	Marl
	OL-0856-13	6.3	ML	Wet, soft, gray, SILT, little fine sand, some oncolites, trace shells, sulfur odor (MARL).	Vibracore		

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40226

Date: 07/30/2009

Weather: Low 80s, Winds W-NW 5-10mph, sun&clouds

Northing: 1125575.73

Easting: 915194.43 Mud Line: 362.3 Ft

Surface Water Depth: 0.8 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: D Burkert

Penetration Depth: 5

Water Elev: 363.1 Ft

Attempts: 3 Depth Units: Ft

Core Recovery Depth: 4

Depth	So	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0856-14	6.5	ML	Wet, soft, black to dark gray, SILT, some clay, sulfur odor.	Vibracore	
+		OL-0856-15	43.5	ML	Wet, medium stiff, dark gray to gray, SILT, little fine to medium sand, little clay, trace shell, sulfur odor (MARL).	Vibracore	
		OL-0856-16	5.9	ML	Wet, soft, gray, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	Marl
-		OL-0856-17	3.9	ML	Wet, soft, gray, SILT, some oncolites, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40227

Date: 08/17/2009

Weather: Mid 90s. Wind 5-10 WNW. Sunny. Humid

Northing: 1125582.95

Easting: 915288.36 Mud Line: 362.1 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARA CHUMURA

Water Elev: 363.4 Ft

Attempts: 1 Depth Units: Ft

Surface Water Depth: 1.3 Ft

Penetration Depth: 7

Core Recovery Depth: 6.4

Depth	30	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
)		OL-0891-02	0.1	ML	0 to 8 inches is wet, soft, black, SILT, trace clay, trace fine sand, low plasticity, trace organics, sulfur odor. Rest of core is wet, very loose, grey, fine SAND, trace shells, little silt, little oncolites, sulfur odor, (MARL) (SM).	Vibracore	Silt
		OL-0891-03	1.3	ML-SM	Wet, very soft, grey, SILT, some fine sand, grading to little fine sand, trace shells, trace organics, little oncolites in top 6 inches, sulfur odor, (MARL).	Vibracore	
		OL-0891-05 1.2	ML	Wet, very soft, grey, SILT, little fine sand, some oncolites, trace shells, sulfur odor, trace organics, (MARL).	Vibracore	Marl	
		OL-0891-06	1.2	ML	Wet, very soft, grey, SILT, little fine sand, trace shells, trace oncolites in top 2 inches, sulfur odor, (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40228

Date: 08/10/2009

Weather: Low 80s. Cloudy. Scatt'd T-Storms.

Northing: 1125645.90

Easting: 915312.85 Mud Line: 361.5 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Attempts: 1

Water Elev: 363 Ft

Depth Units: Ft

Surface Water Depth: 1.5 Ft

Penetration Depth: 7

Core Recovery Depth: 5.9

Depth	50	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0	OL-0875-10	0	ML	0-10 inches is wet, very soft, black, SILT, trace clay, trace organics, petroleum-like odor (ML). Rest of core is wet, very loose, gray, fine to medium SAND, trace silt, some oncolites, sulfur odor (MARL).	Vibracore	Silt	
		OL-0875-11	5.3	sw	Wet, very loose, gray, fine to medium SAND, some oncolites, sulfur odor (MARL).	Vibracore	
OL-0875	OL-0875-12	0.4	ML	Wet, very loose, gray, fine to medium SAND, some oncolites, sulfur odor, trace shells (MARL).	Vibracore	Marl	
		OL-0875-13	9.2	ML	Wet, very loose, gray, fine to medium SAND, some oncolites, sulfur odor, trace shells (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40229

Date: 08/10/2009

Weather: Low 80s. Cloudy. Chance of T-Storms.

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Northing: 1125599.59

Easting: 915639.62 Mud Line: 361.1 Ft

Surface Water Depth: 1.9 Ft

Driller: Anchor QEA

Penetration Depth: 7

Logging Company: PARSONS Geologist: XIAODONG HUANG

Core Recovery Depth: 6

Depth	õ	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0875-01	0	sw	0-3 inches is wet, very soft, gray, SILT, trace clay, trace organics (ML). Rest of core is wet, very loose, gray, fine to medium SAND, trace silt, some oncolites, sulfur odor (MARL).	Vibracore	Silt
		OL-0875-02	0	sw	Wet, very loose, gray, fine to medium SAND, trace silt, some oncolites, sulfur odor (MARL).	Vibracore	
	OL-0875-04	0.2	sw	Wet, very loose, gray, fine to medium SAND, trace silt, some oncolites, sulfur odor (MARL).	Vibracore	Marl	
	OL-0875-05	0.9	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore		

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40230

Date: 08/17/2009

Weather: Mid 90s. Wind 5-10 WNW. Sunny. Humid.

Northing: 1125541.70

Easting: 915656.73 Mud Line: 362.2 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARA CHUMURA

Water Elev: 363.4 Ft

Attempts: 1 Depth Units: Ft

Surface Water Depth: 1.2 Ft

Penetration Depth: 7

Core Recovery Depth: 6

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0	OL-0891-11	0.3	ML	Top 7 inches is wet, very soft, grey, SILT, some fine sand, some oncolites, trace organics, trace shells, sulfur odor, (MARL). Rest of core is wet, soft, dark grey, SILT, little fine sand, trace shells, sewage-like odor, black fine sand seam from 9 to 10 inches (SM).	Vibracore	Silt	
		OL-0891-12	0.7	ML	Wet, very soft, grey, SILT, little fine sand, trace organics, trace shells, little oncolites, sewage-like and sulfur odor, (MARL).	Vibracore	
		OL-0891-13	0.3	ML	Wet, very soft, grey, SILT, little fine sand, trace organics, trace shells, little oncolites, sewage-like and sulfur odor, (MARL).	Vibracore	Marl
		OL-0891-14	0.4	ML	Wet, very soft, grey, SILT, little fine sand, trace organics, trace shells, little oncolites, sewage-like and sulfur odor, (MARL).	Vibracore	
4.0							

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40231

Date: 07/30/2009

Weather: Low 80s, Winds W-NW 5-10mph, sun&clouds

Northing: 1125547.97

Easting: 915774.58

Mud Line: 362.3 Ft

Surface Water Depth: 0.8 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 6

Water Elev: 363.1 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 4.3

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0854-01	0.8	ML	Wet, loose, gray, SILT, little to some fine to medium sand, some oncolites, trace organics (wood fragment), sewage-like odor.	Vibracore	
		OL-0854-02	0.7	ML	Wet, loose, gray, SILT, little to some fine to medium sand, some oncolites, sewage-like odor.	Vibracore	
		OL-0854-03	0.7	ML	Wet, loose, gray, SILT, little to some fine to medium sand, some oncolites, sewage-like odor.	Vibracore	Marl
		OL-0854-05	0.8	ML	Wet, soft, grayish brown, SILT, some fine to medium sand, little oncolites, trace shells, sewage-like odor (MARL).	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40232

Date: 07/30/2009

Weather: High 80s Winds W-NW 5-10mph, cloudy

Northing: 1125597.62

Easting: 915897.62 Mud Line: 362.3 Ft

Surface Water Depth: 0.8 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 6

Water Elev: 363.1 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 5.3

Depth	Recov	Sample	PID	USCS	O. il D intime	Sample	011
Ft	A.	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0854-06	1.5	SM	Wet, loose, gray, fine SAND and Silt, some oncolites, sewage-like odor.	Vibracore	
		OL-0854-07	1.1	SM	Wet, loose, gray, fine SAND and Silt, some oncolites, sewage-like odor.	Vibracore	
	OL-0854-08	1.1	SM	Wet, loose, gray, fine SAND and Silt, some oncolites, sewage-like odor.	Vibracore	Marl	
+		OL-0854-09	2.3	ML	0-4 inches: Wet, loose, gray, fine SAND and Silt, some oncolites, sewage-like odor (SM); Rest of core is wet, very soft, gray-brown, SILT, little to some fine sand, trace shells, sewage-like odor (ML).	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40233

Date: 08/10/2009

Weather: Low 80s. Cloudy. Chance of T-Storms.

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Northing: 1125654.62

Easting: 915907.37 Mud Line: 361.5 Ft

Surface Water Depth: 1.5 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 7

Core Recovery Depth: 6

Depth Ft	Recov	Sample	PID	USCS	Soil Description	Sample Method	Stratum
0		ID OL-0875-06	(ppm)	Code	0-4 inches: Wet, very soft, gray and black, SILT, trace clay, trace organics, petroleum-like odor. 4-12 inches: Wet, very loose, gray, fine to coarse SAND, trace silt, some oncolites, sulfur odor (MARL).	Vibracore	Silt
+		OL-0875-07	0.1	sw	Wet, very loose, gray, fine to medium SAND, trace silt, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0875-08	0.1	sw	Wet, very loose, gray, fine to medium SAND, trace silt, some oncolites, sulfur odor (MARL).	Vibracore	Marl
-		OL-0875-09	0	sw	0-5 inches: Wet, very loose, gray, fine to medium SAND, trace silt, some oncolites, sulfur odor. 5-12 inches: Wet, very loose, gray-green, fine to medium SAND, trace silt, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40234

Date: 08/07/2009

Weather: Mid 70s, sun&clouds, Winds MW 10-15mph

Water Elev: 363 Ft

Northing: 1125950.78

Easting: 915912.89

Surface Water Depth: 3.3 Ft

Mud Line: 359.7 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 7

Attempts: 1
Depth Units: Ft

Core Recovery Depth: 5.4

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0	OL-0873-01	0	ML	Wet, very soft, black, SILT, trace organics, petroleum-like odor, organic odor.	Vibracore		
		OL-0873-02	0	ML	Wet, very soft, black, SILT, trace clay, petroleum-like odor.	Vibracore	Silt
	OL-0873-04 OL-0873-05	0	ML	Wet, very soft, black, SILT, trace clay, petroleum-like odor.	Vibracore		
		0	SP-ML	0-2 inches: Wet, very soft, black, SILT, trace clay, petroleum-like odor (ML); 2-8 inches is wet, very loose, black, fine SAND, trace silt, trace organics, petroleum-like odor (SP); Rest of core is wet, very soft, black, SILT, trace clay, petroleum-like odor (ML).	Vibracore	Silt/Fine San	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40235

Date: 08/07/2009

Weather: Mid 70s, sun&clouds, Winds MW 10-15mph

Northing: 1126188.07

Easting: 916082.89 Mud Line: 356.1 Ft Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Attempts: 1
Depth Units: Ft

Water Elev: 363 Ft

Surface Water Depth: 6.9 Ft

Penetration Depth: 7 Core Recovery Depth: 5.7

Depth	õ	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0	OL-0873-06 OL-0873-07 OL-0873-08	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor.	Vibracore		
		0	ML	Wet, very soft, black, SILT, trace clay, trace organics, petroleum-like odor.	Vibracore		
		0	ML	Wet, very soft, dark gray and black, SILT, trace clay, petroleum-like odor.	Vibracore	Silt	
		OL-0873-09	0	ML	Wet, very soft, dark gray and black, SILT, trace clay, petroleum-like odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40236

Date: 08/10/2009

Weather: Low 80s. Cloudy. Chance of T-Storms.

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Northing: 1126308.68

Surface Water Depth: 4.9 Ft

Easting: 916320.52 Mud Line: 358.1 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 7.5

Core Recovery Depth: 6.5

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	Reading	Code	Soil Description	Method	Stratum
0		OL-0875-18	0	ML	0-3 inches is wet, very loose, black, fine SAND, some silt, trace organics. Rest of core is wet, very soft, brown, SILT, little fine sand, trace organics, trace shells (MARL).	Vibracore	Silt
		OL-0875-19	0	ML	Wet, very soft, brown and gray, SILT, trace fine sand, trace organics, trace shells (MARL).	Vibracore	
7		OL-0875-20	0	ML	Wet, very soft, brown and gray, SILT, trace fine sand, trace organics, trace shells (MARL).	Vibracore	Marl
+		OL-0875-21	0	ML	Wet, very soft, brown and gray, SILT, trace fine sand, trace organics, trace shells (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40237

Date: 08/10/2009

Weather: Low 80s. Cloudy. Chance of T-Storms.

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Northing: 1126544.2

Easting: 916474.2 Mud Line: 354 Ft

Surface Water Depth: 9 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 7

Core Recovery Depth: 6.5

Depth	Recov	Sample	PID	USCS	Soil Description	Sample	Stratum
Ft 0	Ω.	ID OL-0875-14	Reading 0	Code	Wet, very soft, brown, SILT, trace fine sand, little organics, trace shells (MARL).	Method	Stratum
		OL-0875-15	0	ML	Wet, very soft, brown, SILT, trace fine sand, little organics, trace shells (MARL).	Vibracore	
		OL-0875-16	0	ML	Wet, very soft, brown, SILT, trace fine sand, little organics, trace shells (MARL).	Vibracore	Mari
+		OL-0875-17	0	ML	Wet, very soft, brown, SILT, trace fine sand, little organics, trace shells (MARL).	Vibracore	

Page 1 of 2

Driller: QEA



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40238

Date: 08/25/2009

Weather: Mid 80s, mostly sunny, Winds SW 5-10 mph

Northing: 1126589.21 Easting: 914158.17

Logging Company: PARSONS

Water Elev: 363.2 Ft Attempts: 1

Mud Line: 360.8 Ft

Geologist: XIAODONG HUANG

Depth Units: Ft

Surface Water Depth: 2.4 Ft

Penetration Depth: 12.00 Core Recovery Depth: 11.10

Depth	ő	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1007-03	0.6	ML	Wet, medium stiff, greenish-grey, SILT, trace fine to medium sand, some oncolites, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1007-04	0.7	sw	Wet, loose, greenish-grey, fine to medium SAND, trace silt, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1007-05	0.6	sw	Wet, loose, greenish-grey, fine to medium SAND, trace silt, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1007-06	0.6	ML	Wet, very soft, light brown, SILT, trace fine to medium sand, little oncolites, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1007-07	0.6	ML	Wet, very soft, light brown, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
	П	OL-1007-08	0.7	ML	Wet, very soft, light brown, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1007-09	0.6	ML	Wet, very soft, light brown, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1007-10	0.7	sw	Wet, very loose, light brown, fine to coarse SAND, trace silt, little shells, sulfur odor (MARL).	Vibracore	Marl
		OL-1007-11	0.7	SW	Wet, loose, medium to coarse SAND, trace silt, little oncolites, little shells, sulfur odor (MARL).	Vibracore	
_		OL-1007-12	0.6	ML	Wet, very soft, light brown, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 2 of 2

Driller: QEA



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40238

Date: 08/25/2009

Weather: Mid 80s, mostly sunny, Winds SW 5-10 mph

Northing: 1126589.21 Easting: 914158.17

Mud Line: 360.8 Ft

Logging Company: PARSONS Geologist: XIAODONG HUANG

Attempts: 1
Depth Units: Ft

Water Elev: 363.2 Ft

Surface Water Depth: 2.4 Ft

Penetration Depth: 12.00

Core Recovery Depth: 11.10

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
5		OL-1007-13	0.6	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1007-14	0.5	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
1							Marl
	OL-1007-15	0.7	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore		
		OL-1007-16	0.6	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace clay, trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 9.60

Boring No: OL-VC-40239

Date: 08/25/2009

Weather: Mid 80s, mostly sunny, Winds SW 5-10 mph

Northing: 1126262.28

Easting: 914371.56

Surface Water Depth: 2.5 Ft

Mud Line: 360.7 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: XIAODONG HUANG

Penetration Depth: 12.00

Water Elev: 363.2 Ft

Attempts: 1

Depth Units: Ft

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratun
		OL-1009-01	0	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, some oncolites, sulfur odor (MARL).	Vibracore	
		OL-1009-02	0	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, little oncolites, sulfur odor (MARL).	Vibracore	
		OL-1009-03	0	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, little oncolites, sulfur odor (MARL).	Vibracore	
		OL-1009-04	0	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, little oncolites, sulfur odor (MARL).	Vibracore	
		OL-1009-05	0	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, little oncolites, sulfur odor (MARL).	Vibracore	
		OL-1009-06	0	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, little oncolites, sulfur odor (MARL).	Vibracore	
		OL-1009-07	0	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, little oncolites, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1009-08	0	SW	Wet, very loose, light grey, fine to coarse SAND, trace silt, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	Marl
		OL-1009-09	0.2	ML	Wet, very soft, light grey, SILT, trace fine to coarse sand, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1009-10	0.1	ML	Wet, very soft, light grey, SILT, trace fine sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40239

Date: 08/25/2009

Weather: Mid 80s, mostly sunny, Winds SW 5-10 mph

Northing: 1126262.28

Easting: 914371.56 Mud Line: 360.7 Ft Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Water Elev: 363.2 Ft

Attempts: 1 Depth Units: Ft

Surface Water Depth: 2.5 Ft

Penetration Depth: 12.00

Core Recovery Depth: 9.60

Depth	6	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
5		OL-1009-11	0.2	ML	Wet, very soft, light grey, SILT, trace fine to coarse sand, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1009-12	0.2	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
							Marl
		OL-1009-13	0.2	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace clay, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1009-14	0.3	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, little clay, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 2

Driller: QEA



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40240

Date: 08/27/2009

Weather: Low 70s, mostly sunny, Winds N-NW-5-10mph

Northing: 1126084.79 Easting: 914645.16

Mud Line: 360 Ft

Logging Company: PARSONS Geologist: XIAODONG HUANG Attempts: 1
Depth Units: Ft

Water Elev: 363 Ft

Surface Water Depth: 3 Ft

Penetration Depth: 12.00 Core Recovery Depth: 11.10

Depth	õ	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
)		OL-1015-01	0	SOLW	Wet, very soft, grey, silt-like grains, trace organics, slight mothball odor.	Vibracore	
		OL-1015-02	0	SOLW	Wet, very soft, grey, silt-like grains, trace organics, slight mothball odor.	Vibracore	
		OL-1015-03	0	SOLW	Wet, very soft, grey, silt-like grains, trace organics, slight mothball odor.	Vibracore	
		OL-1015-04	0	SOLW	Wet, very soft, grey, silt-like grains, trace organics, slight mothball odor.	Vibracore	
1		OL-1015-05	0.1	SOLW	Wet, very soft, grey, silt-like grains, trace organics, slight mothball odor.	Vibracore	
		OL-1015-06	0.1	SOLW	Wet, very soft, grey, silt-like grains, slight mothball odor.	Vibracore	
		OL-1015-07	0.1	SOLW	Wet, very soft, grey, silt-like grains, slight mothball odor.	Vibracore	Solvay Wast
		OL-1015-08	0.2	SOLW	Wet, very soft, dark grey, silt-like grains, trace organics, mothball odor.	Vibracore	
		OL-1015-09	0.2	SOLW-ML	0 to 4 inches is wet, very soft, dark grey, silt-like grains, trace organics, mothball odor (SOLW). Rest of core is wet, very soft, light brown, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL) (ML).	Vibracore	
		OL-1015-10	0.3	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	Marl

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40240

Date: 08/27/2009

Weather: Low 70s, mostly sunny, Winds N-NW-5-10mph

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Northing: 1126084.79

Easting: 914645.16

Mud Line: 360 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Depth	3	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratur
5		OL-1015-11	0.2	ML	Wet, very soft, light brown, SILT, trace fine sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1015-12	0.3	ML	Wet, very soft, light brown, SILT, trace fine sand, trace shells, sulfur odor (MARL).	Vibracore	
-			_		Wet, very soft, light brown, SILT, trace fine sand, trace shells, sulfur odor (MARL).		Marl
		OL-1015-13	0.2	ML		Vibracore	
0.5		OL-1015-14	0.3	ML	Wet, very soft, green-grey, SILT, trace fine sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40241

Date: 08/27/2009

Weather: Low 70s, mostly sunny, Winds N-NW-5-10mph

Northing: 1126023.77

Easting: 914746.98

Surface Water Depth: 2.4 Ft

Mud Line: 360.6 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12.00

Core Recovery Depth: 8.80

Water Elev: 363 Ft

Attempts: 3

Depth Units: Ft

epth	9	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
		OL-1015-15	0.4	ML	Wet, very soft, dark grey, SILT, trace shells, trace organics, organic odor.	Vibracore	
		OL-1015-16	0.3	ML	Wet, very soft, dark grey, SILT, trace shells, trace organics, organic odor.	Vibracore	Silt
		OL-1015-17	0.4	SOLW	Wet, very soft, grey and dark grey, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore	
		OL-1015-18	0.4	SOLW	Wet, very soft, grey and dark grey, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore	
		OL-1015-19	0.3	SOLW	Wet, very soft, grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1015-20	0.3	SOLW	Wet, very soft, grey and dark grey, silt-like grains, mothball odor.	Vibracore	
		OL-1016-01	0.5	SOLW	Wet, very soft, grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1016-02	0.4	SOLW	Wet, very soft, grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	Solvay Wast
		OL-1016-03	0.4	SOLW	Wet, very soft, grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1016-04	0.5	SOLW	Wet, very soft, dark grey, silt-like grains, trace clay, mothball odor.	Vibracore	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 8.80

Boring No: OL-VC-40241

Date: 08/27/2009

Weather: Low 70s, mostly sunny, Winds N-NW-5-10mph

Northing: 1126023.77

Easting: 914746.98

Surface Water Depth: 2.4 Ft

Mud Line: 360.6 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12.00

Water Elev: 363 Ft

Attempts: 3

Depth Units: Ft

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
5		OL-1016-05	0.5	SOLW	Wet, very soft, dark grey, silt-like grains, trace clay, mothball odor.	Vibracore	
		OL-1016-06	0.5	SOLW	Wet, very soft, dark grey, silt-like grains, trace clay, mothball and slight petroleum-like odor.	Vibracore	Solvay Waste
-							
		OL-1016-07	0.5	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, petroleum-like odor.	Vibracore	
		OL-1016-08	0.6	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, petroleum-like odor.	Vibracore	Silt

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40242

Date: 08/27/2009

Weather: Low 70s, mostly sunny, Winds N-NW-5-10mph

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Northing: 1126039.47

Easting: 914583.53

Surface Water Depth: 2.2 Ft

Mud Line: 360.8 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12.00

Core Recovery Depth: 10.70

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1016-09	0.6	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, some oncolites, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1016-10	0.5	ML	Wet, very soft, green-grey, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1016-11	0.7	ML	Wet, very soft, green-grey, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1016-12	0.7	ML	Wet, very soft, green-grey, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1016-13	0.7	ML	Wet, very soft, light grey, SILT, trace fine to coarse sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1016-14	0.7	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
7		OL-1016-15	0.7	ML	Wet, very soft, light grey, SILT, trace fine to coarse sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1016-16	0.6	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, little oncolites, trace shells, sulfur odor (MARL).	Vibracore	Marl
		OL-1016-17	0.7	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, little oncolites, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1016-18	0.6	ML	Wet, very soft, light grey, SILT, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40242

Date: 08/27/2009

Weather: Low 70s, mostly sunny, Winds N-NW-5-10mph

Northing: 1126039.47

Easting: 914583.53

Mud Line: 360.8 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: XIAODONG HUANG

Water	Elev:	363	Ft
Attemp	ots: 1		

Depth Units: Ft

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
5		OL-1016-19	0.7	ML	Wet, very soft, green-grey, SILT, trace fine to medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1016-20	0.7	ML	Wet, very soft, green-grey, SILT, trace fine to medium sand, trace shells, trace organics, trace oncolites at 5 to 6 inches, sulfur odor (MARL).	Vibracore	
		OL-1017-01	0.7	ML	Wet, very soft, green-grey, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	Marl
0.5		OL-1017-02	0.6	ML	Wet, very soft, green-grey, SILT, trace fine to medium sand, trace clay, trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40243

Date: 08/27/2009

Weather: Low 70s, mostly sunny, Winds N-NW-5-10mph

Northing: 1125953.75

Driller: QEA

Water Elev: 363 Ft

Easting: 914675.67 Mud Line: 361.5 Ft Logging Company: PARSONS Geologist: XIAODONG HUANG Attempts: 1
Depth Units: Ft

Surface Water Depth: 1.5 Ft

Penetration Depth: 12.00

Core Recovery Depth: 10.20

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1017-03	1	ML	Wet, very soft, dark grey, SILT, trace fine to medium sand, trace organics, organic odor.	Vibracore	0.11
		OL-1017-04	0.5	ML	Wet, very soft, dark grey and black, SILT, trace fine to medium sand, trace organics, organic odor.	Vibracore	Silt
		OL-1017-05	0.6	SOLW	Wet, very soft, black and grey, silt-like grains, trace fine to medium sand, trace organics, mothball odor.	Vibracore	
		OL-1017-06	0.6	SOLW	Wet, very soft, black and grey, silt-like grains, trace fine to medium sand, trace organics, mothball odor.	Vibracore	
		OL-1017-07	0.9	SOLW	Wet, very soft, dark grey, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore	
		OL-1017-08	0.8	solw	Wet, very soft, dark grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1017-09	0.7	SOLW	Wet, very soft, dark grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	Solvay Waste
	П	OL-1017-10	1.2	SOLW	Wet, very soft, dark grey, silt-like grains, trace fine sand, trace clay, trace organics, mothball odor.	Vibracore	
_		OL-1017-11	0.4	ML	Wet, very soft, black, SILT, little fine sand, trace clay, petroleum-like odor.	Vibracore	
							Silt
_			-		Wet, very soft, light grey, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).		
		OL-1017-12	1.1	ML		Vibracore	Marl
							IVIAII

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40243

Date: 08/27/2009

Weather: Low 70s, mostly sunny, Winds N-NW-5-10mph

Northing: 1125953.75

Easting: 914675.67

Mud Line: 361.5 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: XIAODONG HUANG

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Depth	Recov	Sample	PID	USCS	Soil Description	Sample	Stratum
Ft	ď	ID	(ppm)	Code	Wet, very soft, light grey, SILT, trace fine to medium sand,	Method	Ottataini
		OL-1017-13	0.7	ML	trace shells, sulfur odor (MARL).	Vibracore	
		OL-1017-14	0.6	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace shells, little oncolites from 3 to 6 inches, sulfur odor (MARL).	Vibracore	
-							Mari
		OL-1017-15	0.9	ML	Wet, very soft, light brown, SILT, trace fine to medium sand, trace clay, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1017-16	0.7	ML	Wet, very soft, light brown, SILT, trace fine to medium sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40244

Date: 08/25/2009

Weather: Mid 80s, mostly sunny, Winds SW 5-10 mph

Northing: 1125854.10

Easting: 915613.28 Mud Line: 360.8 Ft

Driller: QEA Logging Company: PARSONS Water Elev: 363.2 Ft

Geologist: XIAODONG HUANG

Attempts: 1 Depth Units: Ft

Surface Water Depth: 2.4 Ft

Penetration Depth: 12.00 Core Recovery Depth: 10.80

Depth	Sample	PID	USCS		Sample	
Ft	Sample ID	(ppm)	Code	Soil Description	Method	Stratum
	OL-1010-09	0.7	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor.	Vibracore	
	OL-1010-10	0.7	ML	Wet, very soft, dark grey and black, SILT, trace fine sand, trace clay, petroleum-like odor.	Vibracore	
	OL-1010-11	0.8	ML	Wet, very soft, dark grey and black, SILT, trace fine sand, trace clay, petroleum-like odor.	Vibracore	Silt
	OL-1010-12	0.8	ML	Wet, very soft, dark grey and black, SILT, trace fine sand, trace clay, petroleum-like odor.	Vibracore	
-	OL-1010-13	0.6	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor.	Vibracore	
	OL-1010-14	0.7	ML	Wet, very soft, light grey, SILT, trace fine to coarse sand, some oncolites, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
	OL-1010-15	0.8	ML	Wet, very soft, light grey, SILT, trace fine to coarse sand, some oncolites, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
	OL-1010-16	0.7	ML	Wet, very soft, light grey, SILT, trace fine to coarse sand, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	
	OL-1010-17	0.8	ML	Wet, very soft, light grey, SILT, trace fine to coarse sand, some oncolites, trace shells, sulfur odor (MARL).	Vibracore	Marl
	OL-1010-18	0.8	ML	Wet, very soft, light grey. SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40244

Date: 08/25/2009

Weather: Mid 80s, mostly sunny, Winds SW 5-10 mph

Northing: 1125854.10 Easting: 915613.28

Logging Company: PARSONS

Water Elev: 363.2 Ft

Mud Line: 360.8 Ft

Geologist: XIAODONG HUANG

Attempts: 1 Depth Units: Ft

Surface Water Depth: 2.4 Ft

Penetration Depth: 12 00

Driller: QEA

		Depth: 2.4 Ft	FE	letration	Depth: 12.00 Core Recovery Depth: 10.80		
Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
5		OL-1010-19	0.7	ML	Wet, very soft, light grey. SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1010-20	0.7	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
-							Marl
		OL-1011-01	0.9	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace clay, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
.5		OL-1011-02	0.9	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace clay, trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 1 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40245

Date: 08/24/2009

Weather: High 70s, sun&clouds, Winds NW 10-15mph

Northing: 1126260.65

Easting: 914868.33 Mud Line: 359.4 Ft

Surface Water Depth: 3.9 Ft

Driller: QEA Logging Company: PARSONS

Geologist: XIAODONG HUANG

Penetration Depth: 15.00

Water Elev: 363.3 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 11.00

Sample ID OL-1006-09	(ppm)	Code	Soil Description	Method	Stratum
OL-1006-09	10000				
	0.5	ML	Wet, very soft, dark grey, SILT, trace fine sand, little organics, organic odor.	Vibracore	
OL-1006-10	0.4	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace organics, organic odor.	Vibracore	
OL-1006-11	0.4	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, organic odor.	Vibracore	
OL-1006-12	0.4	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, organic odor.	Vibracore	
OL-1006-13	0.5	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, organic odor.	Vibracore	Silt
OL-1006-14	0.4	ML	Wet, very soft, grey and dark grey, SILT, trace clay, slight petroleum-like odor.	Vibracore	
OL-1006-15	0.5	ML	Wet, very soft, grey and dark grey, SILT, trace clay, slight petroleum-like odor.	Vibracore	
OL-1006-16	0.5	SOLW		Vibracore	
OL-1006-17	0.5	SOLW	Wet, very soft, grey, silt-like grains, mothball odor.	Vibracore	
					Solvay Wast
OL-1006-18	0.5	SOLW	Wet, very soft, dark grey, silt-like grains, mothball odor.	Vibracore	
	OL-1006-12 OL-1006-13 OL-1006-14 OL-1006-15 OL-1006-17	OL-1006-12	OL-1006-12	OL-1006-12 OL-1006-12 OL-1006-12 OL-1006-13 OL-1006-14 OL-1006-15 OL-1006-16 OL-1006-17 OL-100	OL-1006-12 OL-1006-12 OL-1006-13 OL-1006-14 OL-1006-14 OL-1006-15 OL-1006-16 OL-1006-16 OL-1006-17 OL-100

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40245

Date: 08/24/2009

Weather: High 70s, sun&clouds, Winds NW 10-15mph

Water Elev: 363.3 Ft

Attempts: 1

Depth Units: Ft

Northing: 1126260.65

Easting: 914868.33 Mud Line: 359.4 Ft Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 15.00

Core Recovery Depth: 11.00

Surface Water Depth: 3.9 Ft

Depth Ft	Recov	Sample ID	PID (ppm)	USCS	Soil Description	Sample Method	Stratum
		OL-1006-19	0.5	ML	Wet, very soft, dark grey and black, SILT, little clay, organic odor.	Vibracore	
							Silt
		OL-1006-20	0.5	ML	Wet, very soft, grey and black, SILT, trace fine to medium sand, trace clay, slight petroleum-like odor.	Vibracore	
_							Solvay Wast
		OL-1007-01	0.4	SOLW	Wet, very soft, dark grey and grayish-white, silt-like grains, mothball odor.	Vibracore	
							Silt
		OL-1007-02	0.6	ML	Wet, very soft, grey, SILT, trace fine sand, petroleum-like odor.	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40246

Date: 08/26/2009

Weather: Mid 70s, showers, Winds SW 10-20mph

Northing: 1126338.83

Easting: 915048.02

Mud Line: 359.9 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: SARA CHMURA

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

epth	6	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratu
71		OL-1013-01	0	ML	Wet, very soft, black, SILT, trace fine sand, trace grey silt-like grains, trace organics, slight organic and mothball odor.	Vibracore	Silt
		OL-1013-02	0	SOLW	Wet, very soft, grey and black, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1013-03	0	SOLW	Wet, very soft, grey and black, silt-like grains, trace fine sand, trace clay, mothball odor.	Vibracore	
		OL-1013-04	0	SOLW	Wet, very soft, grey and black, silt-like grains, trace fine sand, trace clay, mothball odor.	Vibracore	
75.0	1	OL-1013-05	0.1	SOLW	Wet, very soft, grey, silt-like grains, trace fine sand, mothball odor.	Vibracore	
		OL-1013-06	0.1	SOLW	Wet, very soft, grey, silt-like grains, trace fine sand, trace clay, mothball odor.	Vibracore	
		OL-1013-07	0	SOLW	Wet, very soft, grey, silt-like grains, trace fine sand, trace clay, mothball odor.	Vibracore	
		OL-1013-08	0.1	SOLW	Wet, very soft, dark grey, silt-like grains, trace fine sand, sewage-like and mothball odor.	Vibracore	
-		OL-1013-09	0.1	SOLW	Wet, very soft, grey, silt-like grains, trace fine sand, trace clay, sewage-like and mothball odor.	Vibracore	Solvay Wi
		OL-1013-10	0.1	SOLW	Wet, very soft, light grey, silt-like grains, trace clay, mothball odor.	Vibracore	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40246

Date: 08/26/2009

Weather: Mid 70s, showers, Winds SW 10-20mph

Core Recovery Depth: 11.20

Northing: 1126338.83

Easting: 915048.02

Surface Water Depth: 3.1 Ft

OL-1013-14

0.2

SOLW

Mud Line: 359.9 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: SARA CHMURA

Penetration Depth: 12.00

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Vibracore

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
5		OL-1013-11	0.1	SOLW	Wet, very soft, light grey, silt-like grains, trace clay, mothball odor.	Vibracore	
		OL-1013-12	0.2	SOLW	Wet, very soft, light grey, silt-like grains, trace clay, mothball odor.	Vibracore	
					Wet, very soft, dark grey and grey, silt-like grains, trace clay, trace organics, mothball odor.		Solvay Wasti
+		OL-1013-13	0.2	SOLW		Vibracore	
+			-		Wet, very soft, dark grey, silt-like grains, trace fine sand, trace organics, petroleum-like and mothball odor.		

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40247

Date: 08/24/2009

Weather: High 70s, sun&clouds, Winds NW 10-15mph

Northing: 1126554.87

Easting: 915052.97

Mud Line: 355.4 Ft Surface Water Depth: 7.9 Ft Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 15.50

Water Elev: 363.3 Ft

Attempts: 3 Depth Units: Ft

Core Recovery Depth: 13.50

Depth	6	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
)		OL-1005-15	0.3	ML	Wet, very soft, black, SILT, trace fine sand, some zebra mussels, little organics, organic odor.	Vibracore	
		OL-1005-16	0.3	ML	Wet, very soft, black, SILT, little zebra mussels, trace organics, organic odor.	Vibracore	
		OL-1005-17	0.2	ML	Wet, very soft, dark grey and black, SILT, trace fine sand, trace clay, trace organics, slight organic odor.	Vibracore	
		OL-1005-18	0.2	ML	Wet, very soft, dark grey and black, SILT, trace fine sand, trace clay, trace organics, slight organic odor.	Vibracore	
		OL-1005-19	0.2	ML	Wet, very soft, dark grey and black, SILT, trace organics, organic odor.	Vibracore	
	OL-1005-20	0.2	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, petroleum-like odor.	Vibracore		
		OL-1006-01	0.2	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, petroleum-like odor.	Vibracore	
		OL-1006-02	0.3	ML	Wet, very soft, grey, SILT, some clay, trace fine sand, petroleum-like odor.	Vibracore	Silt
		OL-1006-03	0.3	ML	Wet, very soft, grey, SILT, some clay, trace fine sand, petroleum-like odor.	Vibracore	
		OL-1006-04	0.3	ML	Wet, very soft, grey, SILT, little clay, trace fine sand, trace shells.	Vibracore	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40247

Date: 08/24/2009

Weather: High 70s, sun&clouds, Winds NW 10-15mph

Water Elev: 363.3 Ft

Attempts: 3

Depth Units: Ft

Northing: 1126554.87

Easting: 915052.97

Mud Line: 355.4 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

	Surface Water Depth: 7.9 Ft				Depth: 15.50 Core Recovery Depth: 13.50		
Depth	Recov	Sample	PID	USCS	Soil Description	Sample	Stratum
Ft 5	œ	ID	(ppm)	Code	Wet, very soft, grey, SILT, little clay, trace fine sand,	Method	Ottatun
		OL-1006-05	0.4	ML	trace shells.	Vibracore	
		OL-1006-06	0.4	ML	Wet, very soft, grey, SILT, little clay, trace fine sand, trace shells.	Vibracore	
							Silt
		OL-1006-07	0.4	ML	Wet, very soft, light grey, SILT, some clay, trace fine sand, slight petroleum-like odor.	Vibracore	
			-		Wet, very soft, grey, SILT, little clay, trace fine sand.		
		OL-1006-08	0.3	ML		Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40248

Date: 08/26/2009

Weather: Mid 70s, showers, Winds SW 10-20mph

Northing: 1126036.91 Easting: 915013.73

Easting: 915013.73 Mud Line: 360 Ft

Surface Water Depth: 3 Ft

Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Penetration Depth: 12.00

Water Elev: 363 Ft

Attempts: 4
Depth Units: Ft

Core Recovery Depth: 8.80

						' 	
Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1014-08	0.6	ML	Wet, very soft, grey, SILT, some fine to medium sand, trace organics, organic odor.	Vibracore	
		OL-1014-09	0.6	ML	Wet, very soft, grey, SILT, some fine to medium sand, trace organics, organic odor.	Vibracore	
	H	OL-1014-10	0.7	ML	Wet, very soft, dark grey and black, SILT, trace fine to medium sand, trace organics, organic odor.	Vibracore	Silt
		OL-1014-11	0.7	ML	Wet, very soft, dark grey and black, SILT, trace fine to medium sand, trace organics, organic odor.	Vibracore	
7		OL-1014-12	0.7	SOLW	Wet, very soft, grey, silt-like grains, trace fine to medium sand, trace organics, mothball odor.	Vibracore	
		OL-1014-13	0.7	SOLW	Wet, very soft, grey and grayish-white, silt-like grains, trace fine to medium sand, mothball odor.	Vibracore	
		OL-1014-14	0.7	SOLW	Wet, very soft, grey and grayish-white, silt-like grains, trace fine to medium sand, mothball odor.	Vibracore	
		OL-1014-15	0.6	SOLW	Wet, very soft, grey silt-like grains, trace fine to medium sand, trace clay, mothball odor.	Vibracore	
		OL-1014-16	0.7	SOLW	Wet, very soft, grey, silt-like grains, trace fine to medium sand, trace clay, mothball odor.	Vibracore	Solvay Waste
		OL-1014-17	0.7	SOLW	Wet, very soft, dark grey and grey, silt-like grains, trace fine sand, trace clay, mothball odor.	Vibracore	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40248

Date: 08/26/2009

Weather: Mid 70s, showers, Winds SW 10-20mph

Core Recovery Depth: 8.80

Northing: 1126036.91

Easting: 915013.73

Mud Line: 360 Ft

Surface Water Depth: 3 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: SARA CHMURA

Penetration Depth: 12.00

Water Elev: 363 Ft

Attempts: 4

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
5		OL-1014-18	0.8	SOLW	Wet, very soft, dark grey and grey, silt-like grains, trace fine sand, trace clay, mothball odor.	Vibracore	
-		OL-1014-19	0.7	SOLW	Wet, very soft, dark grey and black, silt-like grains, trace fine sand, trace clay, mothball odor.	Vibracore	Solvay Waste
					Wet, very soft, black, SILT, little fine to medium sand, trace		
		OL-1014-20	0.8	ML	shells, slight petroleum-like odor (MARL).	Vibracore	
		OL-1014-21	0.7	ML	Wet, very soft, black, SILT, little fine to medium sand, trace shells, slight petroleum-like odor (MARL).	Vibracore	Marl

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40249

Date: 08/26/2009

Weather: Mid 70s, showers, Winds SW 10-20mph

Northing: 1126269.45

Easting: 915205.91

Surface Water Depth: 1.7 Ft

Mud Line: 361.3 Ft

Driller: QEA Logging Company: PARSONS

Geologist: SARA CHMURA Penetration Depth: 12.00 Attemp

Attempts: 3
Depth Units: Ft

Water Elev: 363 Ft

on Depth: 12.00 Core Recovery Depth: 9.00

Depth	50	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1013-15	0.3	ML	Wet, very soft, black, SILT, trace fine gravel, trace fine to medium sand, trace organics, organic odor.	Vibracore	Silt
		OL-1013-16	0.3	sw	Wet, very loose, black, fine to coarse SAND, trace fine gravel, trace silt, some organics, petroleum-like odor.	Vibracore	
		OL-1013-17	0.3	sw	Wet, very loose, black, fine to coarse SAND, trace fine gravel, trace silt, some organics, petroleum-like odor.	Vibracore	Fine-Coarse San
		OL-1013-18	0.4	sw	Wet, very loose, black, fine to coarse SAND, trace fine gravel, trace silt, trace organics, petroleum-like odor.	Vibracore	
		OL-1013-19	0.4	SOLW	Wet, very soft, dark grey and grayish-white, silt-like grains, trace fine to coarse sand, trace organics, mothball odor.	Vibracore	
		OL-1013-20	0.2	SOLW	Wet, very soft, dark grey and grayish-white, silt-like grains, trace fine to coarse sand, trace organics, mothball odor.	Vibracore	
	Ц	OL-1013-21	0.6	SOLW	Wet, very soft, dark grey and grayish-white, silt-like grains, trace fine to medium sand, mothball odor.	Vibracore	
		OL-1014-01	0.3	SOLW	Wet, very soft, dark grey and grayish-white, silt-like grains, trace fine sand, slight mothball odor.	Vibracore	
		OL-1014-02	0.8	SOLW	Wet, very soft, light grey, silt-like grains, trace fine sand, trace organics, mothball odor.	Vibracore	Solvay Waste
		OL-1014-03	0.5	SOLW	Wet, very soft, dark grey and grey, silt-like grains, trace fine sand, trace clay, slight mothball odor.	Vibracore	
<u> </u>							

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40249

Date: 08/26/2009

Weather: Mid 70s, showers, Winds SW 10-20mph

Northing: 1126269.45

Easting: 915205.91 Mud Line: 361.3 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA Water Elev: 363 Ft

Attempts: 3
Depth Units: Ft

Surface Water Depth: 1.7 Ft

Penetration Depth: 12.00

Core Recovery Depth: 9.00

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
5		OL-1014-04	0.3	SOLW	Wet, very soft, dark grey and grey, silt-like grains, trace fine sand, trace clay, slight mothball odor.	Vibracore	
		OL-1014-05	0.5	SOLW	Wet, very soft, dark grey, silt-like grains, trace fine sand, trace clay, slight petroleum-like and mothball odor.	Vibracore	
							Solvay Waste
					Wet, very soft, dark grey, silt-like grains, trace clay, petroleum-like and mothball odor.		
		OL-1014-06	0.4	SOLW	Wet, very soft, dark grey and grey, silt-like grains, trace	Vibracore	
8.5 <u> </u>		OL-1014-07	0.4	SOLW	fine sand, trace clay, trace black medium sand, trace shells at 5 to 6 inches, slight mothball odor.	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40250

Date: 08/25/2009

Weather: Mid 80s, mostly sunny, Winds SW 5-10 mph

Northing: 1126456.50

Easting: 915322.60 Mud Line: 360.5 Ft

Surface Water Depth: 2.7 Ft

Driller: QEA Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12.00

Water Elev: 363.2 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 9.60

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
)		OL-1011-03	0.9	ML	Wet, very soft, dark grey, SILT, trace fine sand, little organics, organic odor.	Vibracore	
		OL-1011-04	0.8	ML	Wet, very soft, dark grey, SILT, trace fine sand, little organics, organic odor.	Vibracore	
		OL-1011-05	0.9	ML	Wet, very soft, dark grey and black, SILT, little fine to medium sand, trace organics, petroleum-like odor.	Vibracore	
		OL-1011-06	0.8	ML	Wet, very soft, dark grey and black, SILT, little fine to medium sand, trace organics, petroleum-like odor.	Vibracore	
		OL-1011-07	0.9	ML	Wet, very soft, dark grey, SILT, trace fine sand, trace clay, trace organics, slight petroleum-like odor.	Vibracore	
		OL-1011-08	1	ML	Wet, very soft, dark grey and light grey, SILT, little clay, trace fine sand, slight petroleum-like odor.	Vibracore	0.111
		OL-1011-09	1.1	ML	Wet, very soft, dark grey and light grey, SILT, little clay, trace fine sand, slight petroleum-like odor.	Vibracore	Silt
		OL-1011-10	0.9	ML	Wet, very soft, dark grey and light grey, SILT, little clay, trace fine sand, slight petroleum-like odor.	Vibracore	
		OL-1011-11	1	SW	Wet, very loose, dark grey and black, fine to medium SAND, little silt, trace shells, trace organics, slight petroleum-like odor (MARL).	Vibracore	
_		OL-1011-12	0.9	SW	Wet, very loose, dark grey and black, fine to medium SAND, little silt, trace shells, trace organics, slight petroleum-like odor (MARL).	Vibracore	Marl

Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40250

Date: 08/25/2009

Weather: Mid 80s, mostly sunny, Winds SW 5-10 mph

Northing: 1126456.50

Easting: 915322.60 Mud Line: 360.5 Ft Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Attempts: 1

Depth Units: Ft

Water Elev: 363.2 Ft

Surface Water Depth: 2.7 Ft

Penetration Depth: 12.00

Depth	8	Sample	PID	USCS	Property and the second	Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
5		OL-1011-13	1	SW	Wet, very loose, dark grey and black, fine to medium SAND, little silt, trace shells, trace organics, slight petroleum-like odor (MARL).	Vibracore	Marl
		OL-1011-14	1	ML	Wet, very soft, light grey and black, SILT, trace fine sand, petroleum-like odor.	Vibracore	
-							
		OL-1011-15	1	ML	Wet, very soft, light grey and black, SILT, trace fine sand, petroleum-like odor.	Vibracore	Silt
9.5		OL-1011-16	1	ML	Wet, very soft, black and light grey, SILT, petroleum-like odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40251

Date: 08/06/2009

Weather: Mid 70s, sun&clouds, Winds NW 10-15mph

Water Elev: 363.2 Ft

Attempts: 3

Northing: 1125853.20

Easting: 915236.01 Mud Line: 360.5 Ft

Surface Water Depth: 2.7 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 10

Depth Units: Ft

Core Recovery Depth: 8.2

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0872-03	0.1	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor.	Vibracore	
		OL-0872-04	0.6	ML	Wet, very soft, black, SILT, trace clay, trace organics, petroleum-like odor.	Vibracore	
Ī		OL-0872-06	0.3	ML	Wet, very soft, black, SILT, trace clay, trace organics, petroleum-like odor.	Vibracore	Silt
Ì		OL-0872-07	1.1	ML	Wet, very soft, black, SILT, trace clay, trace organics, petroleum-like odor.	Vibracore	
Ī	ı	OL-0872-08	1.1	sw	0-3 inches: Wet, very soft, black, SILT, little clay, trace fine sand, petroleum-like odor (ML); Rest of core is wet, very loose, light brown, fine to medium SAND, trace silt, trace shell, sulfur odor (MARL) (SW).	Vibracore	
+		OL-0872-09	1.1	SW	Wet, very loose, light brown, fine to medium SAND, trace silt, trace shell, sulfur odor (MARL).	Vibracore	
+		OL-0872-10	2.3	sw	Wet, very loose, light brown, fine to medium SAND, trace silt, trace shells, sulfur odor (MARL).	Vibracore	Marl
		OL-0872-11	1.2	SP	0-6 inches: Wet, very loose, light brown, fine SAND, trace medium sand, trace silt, trace shells, sulfur odor (MARL) (SP); Rest of core is wet, very loose, light brown, fine to medium SAND, trace silt, some shells, sulfur odor (MARL) (SW).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40252

Date: 08/06/2009

Weather: Mid 70s, sun&clouds, Winds NW 10-15mph

Northing: 1125848.58

Easting: 915621.48 Mud Line: 361.1 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Water Elev: 363.2 Ft

Attempts: 3 Depth Units: Ft

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0872-12	0.2	ML	Wet, very soft, black, SILT, trace clay, trace organics, petroleum-like odor.	Vibracore	Silt
-		OL-0872-13	0.2	sw	0-7 inches: Wet, very loose, light brown, fine to medium SAND, some shells, sulfur odor (MARL) (SW); Rest of core is wet, very loose, medium to coarse SAND, trace silt, some oncolites, sulfur odor (MARL) (SW).	Vibracore	
		OL-0872-14	0.1	sw	Wet, very loose, light brown, fine to medium SAND, trace silt, some oncolites, sulfur odor (MARL).	Vibracore	
+		OL-0872-15	0.1	SW	Wet, very loose, light brown, fine to medium SAND, trace silt, trace shells, trace organics, some oncolites, sulfur odor (MARL).	Vibracore	
		OL-0872-16	0.1	SW	Wet, very loose, light brown, fine to medium SAND, trace silt, some shells, sulfur odor (MARL).	Vibracore	Marl
5 +		OL-0872-17	0.2	ML	Wet, very soft, light brown, SILT, little fine to medium sand, little shells, sulfur odor (MARL).	Vibracore	
		OL-0872-18	0.1	SM	Wet, very loose, light brown, fine to medium SAND, some silt, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-40253

Date: 08/14/2009

Weather: High 80s. Wind 0-5 N. Mostly Sunny.

Northing: 1125858.07

Easting: 915859.32

Mud Line: 360.2 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Water Elev: 363.7 Ft

Attempts: 1

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0887-01	0	ML	0-8 inches is wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor (ML). Rest of core is wet, very loose, light gray, fine to medium SAND, trace silt, some oncolites, trace shells, trace organics, sulfur odor (MARL) (SW).	Vibracore	Silt
Ť		OL-0887-03	0	sw	0-7 is wet, very loose, light gray medium to fine SAND, little silt, some oncolites, trace shells, sulfur odor (MARL), (SW). Rest of core is wet, very soft, light brown SILT, little fine to medium sand, trace shells, sulfur odor (MARL) (ML).	Vibracore	
	ı	OL-0887-04	0	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-0887-05	0	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-0887-06	0	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	Marl
5 +		OL-0887-07	0	ML	Wet, very soft, light brown, SILT, some fine to medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
Ť		OL-0887-08	0	ML	Very soft, light brown SILT, little fine to medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
_		OL-0887-09	0	ML	Very soft, light brown, SILT, little fine to medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50001-1

Date: 12/02/2009

Weather: Mid 50s, mix sun and clouds, winds S 5-10 mph

Water Elev: 363.52 Ft

Northing: 1128241.207 Easting: 913242.144 Mud Line: 339.17 Ft **Driller: Atlantic Testing**

Logging Company: PARSONS

Geologist: SMW

Attempts: 1
Depth Units: Ft

Surface Water Depth: 24.35 Ft

Penetration Depth: 5.0 Core Recovery Depth: 3.2

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1063-01	1.8	ML	Wet, very soft, grey, SILT, little fine sand, trace shells, sulfur odor (Marl)	Vibracore	
		OL-1063-02	6.6	ML	Wet, very soft, grey, SILT, little fine sand, trace shells, sulfur odor (Marl)	Vibracore	Marl
		OL-1063-03	7.1	ML	Wet, very soft, grey, SILT, trace fine sand, trace shells, sulfur odor (Marl)	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50002-1

Date: 12/02/2009

Weather: Mid 50s, mix sun and clouds, winds S 5-10 mph

Northing: 1128207.99

Easting: 913211.70

Mud Line: 348.62 Ft

Driller: Atlantic Testing

Logging Company: PARSONS

Geologist: SMW

Water Elev: 363.52 Ft

Attempts: 2

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1063-04	3.2	SM	Wet, very loose, grey, fine SAND, trace silt, trace shells, sulfur odor, Marl	Vibracore	
		OL-1063-05	41.7	SM	Wet, very loose, grey, fine SAND, trace silt, trace shells, sulfur odor, Mari	Vibracore	Marl
	-	OL-1063-06	4.1	ML	Wet, very soft, grey, SILT, trace fine sand, trace shells, sulfur odor (Mari)	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50004-1

Date: 12/02/2009

Weather: Mid 50s, mix sun and clouds, winds S 5-10 mph

Northing: 1133039.04 Easting: 910750.11 Driller: Atlantic Testing

Water Elev: 363.52 Ft

Easting: 910750.11

Logging Company: PARSONS

Attempts: 1

Mud Line: 358.32 Ft

Geologist: SMW

Depth Units: Ft

Surface Water Depth: 5.2 Ft

Penetration Depth: 5.0

Core Recovery Depth: 3.2

Depth Ft	Recov	Sample ID	PID (ppm)	USCS	Soil Description	Sample Method	Stratum
0		OL-1063-08	0.2	ML	Wet, very soft, light grey, SILT, little fine sand, trace oncolites, trace shells, sulfur odor (Marl)	Vibracore	
-		OL-1063-09	0.8	ML	Wet, very soft, light grey, SILT, little fine sand, trace oncolites, trace shells, sulfur odor (Marl)	Vibracore	Marl
		OL-1063-10	1.2	ML	Wet, very soft, light grey, SILT, little fine sand, trace oncolites, trace shells, sulfur odor (Marl)	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50009-1

Date: 12/03/2009

Weather: Mid 50s, cloudy, rain, winds SESW 15-30 mph

Northing: 1132923.77 Easting: 910789.99

Driller: Atlantic Testing

Water Elev: 363.51 Ft

Logging Company: PARSONS

Attempts: 1

Mud Line: 358.61 Ft

Geologist: AM

Depth Units: Ft

Surface Water Depth: 4.9 Ft

Penetration Depth: 5.0

Core Recovery Depth: 4.2

Ft 0	Sample ID	(ppm)	Code			Stratum
	OL-1064-11	0	SP	Wet, very loose, light grey, fine to coarse SAND, some fine gravel, trace silt, trace shells, sulfur odor (Mari)	Method	
1	OL-1064-12	0	SP	Wet, very soft, light grey, fine to coarse SAND, some fine gravel, trace silt, trace shells, sulfur odor (Mari)	Vibracore	Marl
3.0	OL-1064-13	0.3	SP	Wet, very soft, light grey, fine to coarse SAND, trace silt, trace shells, trace oncolites, sulfur odor (Marl)	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50011-1

Date: 12/03/2009

Weather: Mid 50s, cloudy, rain, winds SESW 15-30 mph

Northing: 1134380.36

Easting: 913455.73 Mud Line: 337.41 Ft **Driller: Atlantic Testing**

Logging Company: PARSONS

Geologist: AM

Surface Water Depth: 26.1 Ft Penetration Depth: 5.0 Water Elev: 363.51 Ft

Attempts: 1

1 Ft	Penetration Depth: 5.0	Core Recovery Depth: 4.1

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1064-14	0	ML	Wet, very soft, brown, SILT, trace organics	Vibracore	
		OL-1064-15	0	ML	Wet, very soft, brown, SILT, trace organics	Vibracore	Silt
		OL-1064-16	0	SP	0 -2 inches is wet, very soft, brown, SILT, trace organics. 2 -11 inches is wet, very loose, grey, fine to coarse SAND, trace shells. 11 -12 inches is wet, very soft, brown, SILT	Vibracore	Marl

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50013-1

Date: 12/03/2009

Weather: Mid 50s, cloudy, rain, winds SESW 15-30 mph

Water Elev: 363.51 Ft

Attempts: 1

Depth Units: Ft

Northing: 1134352.70

Easting: 913487.72 Mud Line: 336.21 Ft **Driller: Atlantic Testing**

Logging Company: PARSONS

Geologist: AM

Surface Water Depth: 27.3 Ft Penetration Depth: 5.0

Core Recovery Depth: 4.0

Depth	Recov	Sample	PID	USCS	Ocil December	Sample	044
Ft	ď	ID	(ppm)	Code	Soil Description Wet, very soft, brown, SILT	Method	Stratum
0		OL-1064-17	0	ML	vvet, very soπ, brown, SIL1	Vibracore	Silt
		OL-1064-18	0	ML	Wet, very soft, brown-grey, SILT, trace fine to coarse sand, trace shells, trace oncolites	Vibracore	
3.0		OL-1064-19	0	ML	Wet, very soft, brown, SILT, trace to fine coarse sand, trace clay in bottom 3-inches	Vibracore	Mari

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 3.2

Boring No: OL-VC-50014-1

Date: 12/03/2009

Weather: Mid 50s, cloudy, rain, winds SESW 15-30 mph

Northing: 1134318.69

Easting: 913528.46

Mud Line: 335.91 Ft

Driller: Atlantic Testing

Logging Company: PARSONS

Geologist: AM

Surface Water Depth: 27.6 Ft Penetration Depth: 5.0

Water Elev: 363.51 Ft

Attempts: 1

OL-1064-20 0 ML Wet, very soft, brown, SILT OL-1064-21 0 ML Vibracore OL-1064-21 0 ML Vibracore O-5 inches is wet, very soft, brown, SILT, 5-12 inches is wet, very soft, brown, SILT, trace clay.	Stratum	Sample	Soil Description	USCS	PID	Sample	Recov	pth	
OL-1064-21 0 ML Vibracore							E		
0 -5 inches is wet, very soft, brown, SILT. 5 -12 inches is wet, very soft, brown, SILT, trace clay.	Silt	Vibracore	Wet, very soft, brown, SILT	ML	0	OL-1064-21			
OL-1064-22		Vibracore	0 -5 inches is wet, very soft, brown, SILT. 5 -12 inches is wet, very soft, brown, SILT, trace clay.	ML	0	OL-1064-22			

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50015-1

Date: 12/03/2009

Weather: Mid 50s, cloudy, rain, winds SESW 15-30 mph

Northing: 1134286.88

Easting: 913563.47 Mud Line: 326.44 Ft

Surface Water Depth: 27.07 Ft

Driller: Atlantic Testing

Logging Company: PARSONS

Geologist: AM

Water Elev: 363.51 Ft

Attempts: 1 Depth Units: Ft

Penetration Depth: 5.0 Core Recovery Depth: 3.9

Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1064-23	0	ML	Wet, very soft, brown, SILT, trace organics	Vibracore	Silt
-		OL-1064-24	0	ML	Wet, very soft, brown, SILT	Vibracore	
		OL-1064-25	0	ML	Wet, very soft, brown, SILT, trace organics, trace clay, trace shells	Vibracore	Marl

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 5

Boring No: OL-VC-50066

Date: 07/30/2009

Weather: High 80s Winds W-NW 5-10mph, cloudy

Northing: 1127022.49

Easting: 914294.14 Mud Line: 338.1 Ft Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Surface Water Depth: 25 Ft Penetration Depth: 7

Water Elev: 363.1 Ft

Attempts: 1

Depth	Recov	Sample	PID	USCS		Sample	
Ft.	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0854-16	0.7	ML	Wet, very soft, dark gray to gray, SILT.	Vibracore	
-		OL-0854-17	0.5	ML	Wet, very soft, dark gray, SILT, petroleum-like odor.	Vibracore	
		OL-0854-18	0.4	ML	Wet, very soft, dark gray, SILT, petroleum-like odor.	Vibracore	Silt
.0		OL-0854-19	0.5	ML	Wet, very soft, dark gray, SILT, petroleum-like odor.	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 5

Boring No: OL-VC-50067

Date: 07/30/2009

Weather: High 80s WInds W-NW 5-10mph, cloudy

Northing: 1127208.72

Easting: 914187.29 Mud Line: 336.9 Ft

Surface Water Depth: 26.2 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 7

Water Elev: 363.1 Ft

Attempts: 1

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-0854-20	0.6	ML	Wet, very soft, dark gray to grayish brown, SILT.	Vibracore	
		OL-0855-01	0.5	ML	Wet, very soft, dark gray, SILT, slight petroleum-like odor.	Vibracore	
		OL-0855-02	0.8	ML	Wet, very soft, dark gray, SILT, slight petroleum-like odor.	Vibracore	Silt
4.0		OL-0855-03	0.6	ML	Wet, soft, dark gray, SILT grains.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 6.1

Boring No: OL-VC-50068

Date: 07/23/2009

Weather: Low 80s, humid, winds 10-20mph NE, showers

Northing: 1127762.09

Easting: 913739.54

Mud Line: 334.3 Ft

Driller: Anchor QEA

Logging Company: Parsons Geologist: H.SLETTEN

Surface Water Depth: 28.9 Ft Penetration Depth: 7.5

Water Elev: 363.1 Ft

Attempts: 1

Depth	Recov	Sample	PID	USCS	Soil Description	Sample	Stratum
Ft 0	8	ID OL-0840-13	(ppm)	Code	Wet, soft, dark brown, SILT, slight petroleum-like odor.	Method	Guatam
1		OL-0840-14	0	ML	Wet, soft, dark brown, SILT, slight petroleum-like odor.	Vibracore	Silt
		OL-0840-15	0	ML	0-5 inches: Wet, soft, dark gray, SILT, trace fine sand. 5-12 inches: Wet, soft, gray, SILT, little clay, trace shells, sulfur odor (Marl).	Vibracore -	
	OL-0840-16	0	ML	Wet, soft, gray-brown, SILT, little clay, trace shells, sulfur odor (Marl).	Vibracore	Marl	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50068-A

Date: 09/23/2009

Weather: Low 80s, cloudy, Winds, SW 10-15mph

Northing: 1127763.33

Easting: 913738.34 Mud Line: 334.2 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA Water Elev: 363 Ft
Attempts: 1

Depth Units: Ft

Surface Water Depth: 28.8 Ft

Penetration Depth: 7.00

Core Recovery Depth: 4.60

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1026-02	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, slight petroleum-like odor, trace organics.	Vibracore	
		OL-1026-03	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, slight petroleum-like odor, trace organics.	Vibracore	Silt

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50069

Date: 07/23/2009

Weather: High 70s, winds 5-10mph SE-SW, T-showers

Northing: 1121576.33

Easting: 927356.31

Surface Water Depth: 15.6 Ft

Mud Line: 347.5 Ft

Driller: Anchor QEA

Logging Company: Parsons Geologist: H.SLETTEN

Penetration Depth: 7

Water Elev: 363.1 Ft

Attempts: 1

Depth Units: Ft
Core Recovery Depth: 4

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0843-01	0.7	SM	Wet, loose, black, fine SAND, some silt, trace shells, petroleum-like odor (Marl).	Vibracore	
-		OL-0843-02	0	ML-SM	Wet, soft, black, SILT and fine Sand, trace shells, petroleum-like odor (Marl).	Vibracore	
		OL-0843-03	4	SM	0-4 inches is wet, soft, dark gray, SILT, trace fine sand, slight petroleum-like odor (ML). Rest of core is wet, loose, dark gray-brown, fine SAND and Silt, trace shells, trace organics (twigs) sulfur odor, (Marl).	Vibracore	Marl
		OL-0843-04	1.9	ML-SM	Wet, soft, dark gray-brown, SILT, some fine sand, trace shells, trace organics, sulfur odor (Marl).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50069-A

Date: 09/23/2009

Weather: Low 80s, cloudy, Winds, SW 10-15mph

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Northing: 1121572.41

Easting: 927360.96

Surface Water Depth: 14.1 Ft

Mud Line: 348.9 Ft

Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Penetration Depth: 4.00 Core Recovery Depth: 1.90

- - -

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1028-02	0	ML	Wet, very soft, gray-brown, SILT, little fine sand grading to some fine sand, trace shells, trace organics, petroleum-like odor.	Vibracore	Silt
1.0		OL-1028-03	0	SM	Wet, very loose, gray-brown, fine SAND, some silt, trace shells, petroleum-like odor.	Vibracore	Fine Sand

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 5.4

Boring No: OL-VC-50070

Date: 07/23/2009

Weather: High 70s, winds 5-10mph SE-SW, T-showers

Northing: 1121603.40

Easting: 927070.71

Mud Line: 334.9 Ft

Driller: Anchor QEA Logging Company: Parsons

Geologist: H.SLETTEN

Surface Water Depth: 28.3 Ft Penetration Depth: 7

Water Elev: 363.1 Ft

Attempts: 1

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0843-05	0.4	ML	Wet, very soft, black, SILT, petroleum-like odor.	Vibracore	
		OL-0843-06	1,2	ML	Wet, very soft, black, SILT, petroleum-like odor.	Vibracore	
		OL-0843-07	1.1	ML	Wet, very soft, black, SILT, petroleum-like odor.	Vibracore	Silt
		OL-0843-09	0.9	ML	Wet, soft, black, SILT, trace fine sand, petroleum-like odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50070-A

Date: 09/23/2009

Weather: Low 80s, cloudy, Winds, SW 10-15mph

Northing: 1121605.56 Easting: 927072.67

5.56 Driller: QEA

Water Elev: 363 Ft

Mud Line: 335 Ft

Logging Company: PARSONS Geologist: SARA CHMURA Attempts: 1
Depth Units: Ft

Surface Water Depth: 28 Ft

Penetration Depth: 4.00 Co

Core Recovery Depth: 2.70

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1028-04	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, trace organics.	Vibracore	
1.0		OL-1028-05	0	ML	Wet, very soft, gray-brown, SILT, trace fine sand, trace organics.	Vibracore	Silt

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50071

Date: 08/25/2009

Weather: Mid 80s, mostly sunny, Winds SW 5-10 mph

Water Elev: 363.2 Ft

Attempts: 4

Depth Units: Ft

Northing: 1127158.83

Easting: 914068.12

Surface Water Depth: 5.9 Ft

Mud Line: 357.3 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12.00

Core Recovery Depth: 11.60

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
)		OL-1009-15	0.3	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace zebra mussels, trace organics, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1009-16	0.4	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace zebra mussels, trace organics, trace shells, sulfur odor (MARL).	Vibracore	
	П	OL-1009-17	0.3	ML	Wet, very soft, light brown and black, SILT, trace fine to medium sand, little shells, sulfur odor (MARL).	Vibracore	
		OL-1009-18	0.4	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1009-19	0.3	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1009-20	0.3	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
Ý	Ц	OL-1010-01	0.3	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1010-02	0.4	ML	Wet, very soft, light grey, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	Marl
		OL-1010-03	0.3	ML	Wet, very soft, light brown, SILT, trace fine to medium sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1010-04	0.3	ML	Wet, very soft, light brown, SILT, trace fine to medium sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
<u> </u>							

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50071

Date: 08/25/2009

Weather: Mid 80s, mostly sunny, Winds SW 5-10 mph

Northing: 1127158.83

Easting: 914068.12 Mud Line: 357.3 Ft

Surface Water Depth: 5.9 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12.00

Core Recovery Depth: 11.60

Attempts: 4

Depth Units: Ft

Water Elev: 363.2 Ft

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
5		OL-1010-05	0.3	ML	Wet, very soft, light brown, SILT, trace fine sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1010-06	0.4	ML	Wet, very soft, light brown, SILT, trace fine sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
-							Marl
		OL-1010-07	0.4	ML	Wet, very soft, light brown, SILT, trace fine sand, trace clay, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1010-08	0.4	ML	Wet, very soft, green-grey, SILT, trace fine to medium sand, trace clay, trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50072

Date: 09/23/2009

Weather: Low 80s, cloudy, Winds, SW 10-15mph

Northing: 1121707.69 Easting: 927388.27 Driller: QEA

Water Elev: 363 Ft

Mud Line: 356.3 Ft

Logging Company: PARSONS Geologist: SARA CHMURA Attempts: 3 Depth Units: Ft

Surface Water Depth: 6.7 Ft

Penetration Depth: 7.00

Core Recovery Depth: 5.60

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1027-12	0	SM	Wet, very loose, gray, fine SAND, little silt, some oncolites, little zebra mussels, trace shells, sulfur odor (MARL).	Vibracore	
	OL-1027-13	0	SM	Wet, very loose, gray, fine SAND, little silt, some oncolites, little zebra mussels, trace shells, sulfur odor (MARL).	Vibracore		
		OL-1027-14	0	ML	Wet, very soft, gray, SILT, little fine sand, trace shells, trace oncolites, sulfur odor (MARL).	Vibracore	
	OL-1027-15	0	ML	Wet, very soft, gray, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	Marl	
		OL-1027-16	0	ML	Wet, very soft, gray, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50073

Date: 09/23/2009

Weather: Low 80s, cloudy, Winds, SW 10-15mph

Water Elev: 363 Ft

Attempts: 1

Depth Units: Ft

Northing: 1121772.96

Easting: 926947.85 Mud Line: 334.7 Ft Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Core Recovery Depth: 5.50

Surface Water Depth: 28.3 Ft Penetration Depth: 7.00 Core Rec

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1027-17	0	ML	Wet, very soft, black, SILT, petroleum-like odor.	Vibracore	
		OL-1027-18	0	ML	Wet, very soft, black, SILT, petroleum-like odor.	Vibracore	
-		OL-1027-19	0	ML	Wet, very soft, black, SILT, trace fine sand, strong petroleum-like odor.	Vibracore	
		OL-1027-20	0	ML	Wet, very soft, black, SILT, trace fine sand, rainbow sheen, strong petroleum-like odor.	Vibracore	Silt
		OL-1028-01	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, strong petroleum-like odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50074

Date: 09/23/2009

Weather: Low 80s, cloudy, Winds, SW 10-15mph

Core Recovery Depth: 4.40

Northing: 1127610.41

Easting: 913745.12

Surface Water Depth: 11.2 Ft

Mud Line: 351.8 Ft

Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Penetration Depth: 7.00

Water Elev: 363 Ft

Attempts: 1

Depth	6	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1025-01	0	ML-SM	Wet, very soft, grey, SILT, some fine sand, trace shells, some organics and zebra mussels in top 1.5 inches, sulfur odor (MARL).	Vibracore	
	i	OL-1025-02	0	ML-SM	Wet, very soft, grey, SILT, some fine sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-1025-03	0	ML	Wet, very soft, grey to dark grey, SILT, little fine sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-1025-04	0	ML-SM	Wet, very soft, grey, SILT and fine Sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	Marl
		OL-1025-05	9.3	ML	Wet, very soft, grey, SILT, little fine sand, trace shells, trace organics, sulfur odor (MARL). (PID background at 2.6).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50075

Date: 09/23/2009

Weather: Low 80s, cloudy, Winds, SW 10-15mph

Northing: 1127841.18

Easting: 913607.18

Surface Water Depth: 21.3 Ft

Mud Line: 341.7 Ft

Driller: QEA

Logging Company: PARSONS Geologist: SARA CHMURA

Penetration Depth: 7.00

Water Elev: 363 Ft

Attempts: 3 Depth Units: Ft

Core Recovery Depth: 3.70

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1025-06	47.2	SM	Wet, very loose, dark gray, fine SAND, some silt, little shells, some zebra mussels, trace organics, sulfur odor.	Vibracore	
		OL-1025-07	58.3	SM	Wet, very loose, dark gray, fine SAND, some silt, little shells, trace organics, sulfur odor.	Vibracore	Fine Sand
Ť		OL-1025-08	54.5	ML	Wet, very soft, dark grey, SILT, little fine sand, trace shells, trace organics, strong sulfur odor (MARL).	Vibracore	
		OL-1025-10	0.9	ML-SM	Wet, very soft, dark grey, SILT and fine Sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	Marl
		OL-1025-11	289	SM-ML	Wet, very soft, dark grey, fine SAND and Silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50076

Date: 12/03/2009

Weather: Mid 50s, cloudy, rain, winds SESW 15-30 mph

Northing: 1132867.12

B67.12 Driller: Atlantic Testing

Water Elev: 363.51 Ft

Easting: 910807.78

Logging Company: PARSONS

Attempts: 1

Mud Line: 359.61 Ft

Geologist: AM

Depth Units: Ft

Surface Water Depth: 3.9 Ft Penetration Depth: 5.0

Core Recovery Depth: 4.4

OL-1064-26 OL-1064-26 Wet, very loose, brown, fine SAND, some silt, trace fine to coarse sand, trace shells, slight sulfur odor Vibracore Wet, very loose, grey-brown, fine SAND, trace silt, trace shells, trace oncolites, sulfur odor (Mari)	Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
Shells, trace oncolites, sulfur odor (Marl) OL-1064-27 O SP Wet, very loose, grey-brown, fine SAND, trace silt, trace shells, trace oncolites, sulfur odor (Marl)						Wet, very loose, brown, fine SAND, some silt, trace fine to coarse sand, trace shells, slight sulfur odor		
shells, trace oncolites, sulfur odor (Mari)		OL-1064-27	0	SP	Wet, very loose, grey-brown, fine SAND, trace silt, trace shells, trace oncolites, sulfur odor (Mari)	Vibracore	Marl	
	-		OL-1064-28	0	SP	Wet, very loose, grey-brown, fine SAND, trace silt, trace shells, trace oncolites, sulfur odor (Marl)	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50077

Date: 12/03/2009

Weather: Mid 50s, cloudy, rain, winds SESW 15-30 mph

Northing: 1132896.58 Easting: 910752.55

Driller: Atlantic Testing

Water Elev: 363.51 Ft

Mud Line: 359.51 Ft

Logging Company: PARSONS

Attempts: 2 Depth Units: Ft

Surface Water Depth: 4 Ft

Geologist: AM Penetration Depth: 5.0

Core Recovery Depth: 3.5

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratum
0		OL-1065-29	0	ML-SM	Wet, very soft, grey to light brown, SILT and fine to coarse Sand	Vibracore	
OL-106	OL-1065-30	0	ML-SM	Wet, very soft, grey to light brown, SILT and fine to coarse Sand, trace shells, slight sulfur odor	Vibracore	Marl	
		OL-1065-31	0	ML-SM	Wet, very soft, grey to light brown, SILT and fine to coarse Sand, trace cobbles, trace shells, slight sulfur odor	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50078

Date: 12/03/2009

Weather: Mid 50s, cloudy, rain, winds SESW 15-30 mph

Water Elev: 363.51 Ft

Attempts: 1

Depth Units: Ft

Northing: 1132911.54

Easting: 910818.61 Mud Line: 359.21 Ft **Driller: Atlantic Testing**

Logging Company: PARSONS

Geologist: AM

Surface Water Depth: 4.3 Ft

Penetration Depth: 5.0 Core Recovery Depth: 3.3

Depth	Recov	Sample	PID	USCS	0.110	Sample	0, ,
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1065-32	0	sw	Wet, very loose, dark grey, fine to coarse SAND, little fine to coarse gravel, trace silt.	Vibracore	fmc Sand
		OL-1065-33	0 ML	Wet, very soft, dark grey to brown, SILT, little fine to coarse sand, trace coarse gravel, trace shells	Vibracore		
OL-1065-37	OL-1065-37	0	ML	Wet, very soft, dark brown, SILT, trace coarse gravel, trace shells	Vibracore	Silt	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-50079

Date: 12/02/2009

Weather: Mid 50s, mix sun and clouds, winds S 5-10 mph

Northing: 1132968.97 Easting: 910825.12

Driller: Atlantic Testing

Water Elev: 363.52 Ft

Logging Company: PARSONS

Attempts: 1

Mud Line: 358.22 Ft

Geologist: SMW

Depth Units: Ft

Surface Water Depth: 5.3 Ft

Penetration Depth: 5.0

Core Recovery Depth: 3.1

Depth	SO	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-1063-34	0.6	ML	Wet, very soft, light grey SILT, little fine sand, trace organics, trace shells, sulfur odor. (Marl)	Vibracore	
OL-1	OL-1063-35	1.4	ML	Wet, very soft, light grey SILT, little fine sand, trace oncolites, trace organics, trace shells, trace cobbles, sulfur odor (Marl)	Vibracore	Marl	
	OL-1063-36	2	ML	Wet, very soft, light grey SILT, little fine sand, trace organics, trace shells, sulfur odor (Marl)	Vibracore		

Page 1 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60254 Start/End Date: 07/22/2009

Weather: Low 80s, winds NW 0-5mph, Mix sun & clouds

Northing: 1118248.37

Drilling Company: Atlantic Testing

Total Depth: 73.0 Ft

Easting: 928543.08 Mud Line: 360.67 Ft **Driller: Mark Childs**

Water Elevation: 363.17

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: DCB Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratur
0			WH-WH-WH	0	0	SM	Wet, very loose, dark gray, fine SAND and Silt.	2SS-140H	
Ī			WH-WH-WH-WH	0	0	SM	Wet, very loose, dark gray, fine SAND and Silt.	2SS-140H	-
5 +			1-1-WH-WH	1	0	SM	Wet, very loose, dark gray, fine SAND and Silt.	2SS-140H	· Silt/Sand
-			1-WH-WH-1	0	0	SM	Wet, very loose, dark gray, fine SAND and Silt.	2SS-140H	
			WH-WH-WH-WH	0	0	ML/CL	Wet, very soft, dark gray to black, SILT and Clay, organic odor.	2SS-140H	
10 +			WH-WH-WH-WH	0	0	ML/CL	Wet, very soft, dark green-gray, SILT and Clay, some fine sand, little shells.	2SS-140H	
†			WH-WH-WH-WH	0	0	ML/CL	Wet, very soft, dark green-gray and light gray banded, SILT and Clay, some fine sand, little shells.	2SS-140H	
15			WH-WH-WH-WH	0	0	ML/CL	Wet, very soft, dark green-gray and light gray banded, SILT and Clay, some fine sand, little shells.	2SS-140H	- Marl
			WH-WH-WH	0	0	ML/CL	Wet, very soft, dark green-gray and light gray banded, SILT and Clay, some fine sand, little shells.	2SS-140H	-
†			WH-WH-WH	0	0	ML/CL	Wet, very soft, dark green-gray and light gray banded, SILT and Clay, some fine sand, little shells.	2SS-140H	_

Page 2 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60254 Start/End Date: 07/22/2009

Weather: Low 80s, winds NW 0-5mph, Mix sun & clouds

Northing: 1118248.37

Drilling Company: Atlantic Testing

Total Depth: 73.0 Ft

Easting: 928543.08

Driller: Mark Childs

Water Elevation: 363.17

Mud Line: 360.67 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: DCB Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Strati
20					0		Shelby Tube.	Shelby	
			WH-WH-WH	0	0	ML/CL	Moist to wet, very soft, dark green-gray, SILT and Clay, trace fine sand, thin band of light gray SILT and Clay, little shells, plastic.	2SS-140H	
	Ē						Drill down from 24 to 25 ft.		
5		ř l					Shelby Tube.		1
7								Shelby	
			WH-WH-WH-WH	0	0	ML/CL	0-6 inches: Wet, very loose, dark green-gray, fine SAND and Silt; 6-22 inches: Wet to moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic, sulfur odor.	2SS-140H	
) 			WH-WH-WH	0	0	ML/CL	Wet to moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic, sulfur odor.	2SS-140H	Ma
+			WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic.	2SS-140H	
+			WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic.	2SS-140H	
5 +			WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic, sewage-like and sulfur odors.	2SS-140H	-
†			WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic, sewage-like and sulfur odor.	2SS-140H	_
†		-					Shelby Tube.	Shelby	-

Page 3 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60254 Start/End Date: 07/22/2009

Weather: Low 80s, winds NW 0-5mph, Mix sun & clouds

Northing: 1118248.37

Drilling Company: Atlantic Testing

Total Depth: 73.0 Ft

Easting: 928543.08

Driller: Mark Childs

Water Elevation: 363.17

Mud Line: 360.67 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: DCB Rig Type: CME75

				0 7.	
Blow	N	PID	USCS		
Count	Malua	(mmm)	Cada	Sc	il Description

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratur
40							Shelby Tube.	Shelby	
-			WH-WH-WH-4	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic, sewage-like and sulfur odor.	2SS-140H	
1							Drill down from 43 to 44 ft.		
45 —							Shelby Tube.	Shelby	
			WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic, sewage-like and sulfur odor.	2SS-140H	Marl
			WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic, sewage-like and sulfur odor.	2SS-140H	
50 +		-	WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, plastic, sewage-like and sulfur odor.	2SS-140H	
		-	WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic, sewage-like and sulfur odor.	2SS-140H	
55 +		-	WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray varved, SILT and Clay, plastic, sewage-like odor.	2SS-140H	
†		-	WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray varved, SILT and Clay, plastic, sewage-like odor.	2SS-140H	Silt and Cl
†			WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray varved, SILT and Clay, plastic, sewage-like odor.	2SS-140H	

Page 4 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60254 Start/End Date: 07/22/2009

Weather: Low 80s, winds NW 0-5mph, Mix sun & clouds

Northing: 1118248.37

Drilling Company: Atlantic Testing

Driller: Mark Childs

Total Depth: 73.0 Ft Water Elevation: 363.17

Easting: 928543.08 Mud Line: 360.67 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: DCB Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratum
60			WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray varved, SILT and Clay, plastic, sewage-like odor.	2SS-140H	
1			WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray varved, SILT and Clay, plastic, sewage-like odor.	2SS-140H	
+		1					Shelby Tube.		1
65 —								Shelby	
4			WH-WH-WH	0		ML/CL	Moist, very soft, dark gray and dark green-gray varved, SILT and Clay, plastic, sewage-like odor.	2SS-140H	Silt and Clay
+	4-+			1			Drill down from 68 to 69 ft.		-
				1			Shelby Tube.		1
70 +								Shelby	
1		-	WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray varved, SILT and Clay, plastic, sewage-like odor.	2SS-140H	
73.0			Note: Nu	Il fields ind	icate readir	ngs were no	ot taken.		

Page 1 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60255

Start/End Date: 07/20/2009 - 07/21/2009

Wet, very soft, light gray, SILT and Clay, some fine sand, little shells.

Wet, very soft, light gray with bands of light gray-tan, SILT and Clay, some fine sand, little shells, sewage-like odor.

Weather: High 70s, Winds SE 0-5mph, sun&clouds

Northing: 1118052.29

Easting: 928320.19

Mud Line: 360.42 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Total Depth: 75.0 Ft

Water Elevation: 363.12

2SS-140H

2SS-140H

Depth Units: Ft

Surface	Wate	er Depth: 2	2.7 Ft	Borehole	Geologis	st: DCB	Rig Type: CME75		
Depth Ft	Recov	Sample	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratun
0			1-WH-1-WH	1	0	ML/SM	Wet, very soft, dark gray, SILT and fine Sand, organic odor.	2SS-140H	
	/		WH-WH-WH-1	0			No Recovery.	2SS-140H	
5 +	/		WH-WH-WH-WH	ı 0	0	ML/SM	Wet, very soft, dark gray, SILT and fine Sand, organic odor.	2SS-140H	Silt/Sand
+			WH-WH-WH-WH	1 0	0	ML/SM	Wet, very soft, dark gray, SILT and fine Sand, several light gray seams of clay, slightly plastic.	2SS-140H	
İ			WH-WH-WH-WF	0	0	ML/SM	Wet, very soft, dark gray, SILT and fine Sand, several light gray seams of clay, slightly plastic, trace shell pieces in bottom 2 inches.	2SS-140H	
10 +		-	WH-WH-WH-WH	0	0	ML/SM	Wet, very soft, light gray, SILT and fine Sand, some clay, trace shells pieces.	2SS-140H	
†			WH-WH-WH-WH	. 0	0	ML/CL	Wet, very soft, light gray, SILT and Clay, some fine sand, little shells.	2SS-140H	-
15 +			WH-WH-WH-WH	. 0	0	ML/CL	Wet, very soft, light gray, SILT and Clay, some fine sand, little shells.	2SS-140H	Marl

ML/CL

ML/CL

0

0

WH-WH-WH

WH-WH-WH-WH

0

0

Page 2 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60255

Start/End Date: 07/20/2009 - 07/21/2009

Weather: High 70s, Winds SE 0-5mph, sun&clouds

Northing: 1118052.29

Drilling Company: Atlantic Testing

Total Depth: 75.0 Ft

Easting: 928320.19

Driller: Mark Childs

Water Elevation: 363.12

Mud Line: 360.42 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.7 Ft

Borehole Geologist: DCB Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS	Soil Description	Sample	lo44
Ft	Ř	ID	Count	Value	(ppm)	Code	Shelby Tube.	Method	Stratui
20							Shelby Tube.	Shelby	
1		-	WH-WH-WH	0	0	ML/CL	Wet, very soft, light gray and tan, SILT and Clay, some fine sand, trace shells, slight plasticity, sewage-like odor.	2SS-140H	-
25 —			WH-WH-WH	0	0	ML/CL	Wet, very soft, light gray and tan, SILT and Clay, some fine sand, trace shells, slight plasticity, sewage-like odor.	2SS-140H	-
		1					Shelby Tube.	Shelby	
		-	WH-WH-WH	0	0.2	ML/CL	Wet, very soft, dark green-gray, SILT and Clay, trace shells, slight plasticity, sewage-like odor.	2SS-140H	-
30 +		-	WH-WH-WH-WH	0	0	ML/CL	Wet, very soft, dark green-gray, SILT and Clay, trace shells, slight plasticity, sewage-like odor.	2SS-140H	- Marl
†		-	WH-WH-WH	0	0	ML/CL	Wet, very soft, dark green-gray, SILT and Clay, trace shells, slight plasticity, sewage-like odor.	2SS-140H	-
35 —		-	WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic.	2SS-140H	-
†		-	WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic.	2SS-140H	-
			WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, plastic.	2SS-140H	_

Page 3 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60255

Start/End Date: 07/20/2009 - 07/21/2009

Weather: High 70s, Winds SE 0-5mph, sun&clouds

Northing: 1118052.29

Drilling Company: Atlantic Testing

Driller: Mark Childs

Total Depth: 75.0 Ft Water Elevation: 363.12

Easting: 928320.19 Mud Line: 360.42 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.7 Ft

Borehole Geologist: DCB Rig Type: CME75

Sample	Blow	N	PID	USCS		Sample	_
ID	Count	Value	(ppm)	Code	· ·	Method	Stratur
					Shelby Tube.	Shelby	
	WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, trace shells, sewage-like odor.	2SS-140H	
	WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, sewage-like odor.	2SS-140H	-
	WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, plastic, sewage-like odor.	2SS-140H	-
	WH-WH-WH	0	0	ML/CL	Moist, very soft, dark green-gray, SILT and Clay, plastic, sewage-like odor.	2SS-140H	- Marl
					Shelby Tube.	Shelby	
	WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and gray laminated, SILT and Clay, trace shells, plastic.	2SS-140H	-
	WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and gray laminated, SILT and Clay, trace shells, plastic.	2SS-140H	-
	WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray laminated, SILT and Clay, plastic, sewage-like odor.	2SS-140H	
	WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray laminated, SILT and Clay, plastic, sewage-like odor.	2SS-140H	Silt and Ci
	37.75 3.75	ID Count WH-WH-WH-WH WH-WH-WH-WH WH-WH-WH-WH WH-WH-WH-WH WH-WH-WH-WH WH-WH-WH-WH	ID Count Value VM-WH-WH-WH 0 WM-WH-WH-WH 0 WM-WH-WH-WH 0 WM-WH-WH-WH 0 WM-WH-WH-WH 0 WM-WH-WH-WH 0 WM-WH-WH-WH 0	ID Count Value (ppm)	ID Count Value (ppm) Code	ID Count Value (ppm) Code Soil Description	ID Count Value (ppm) Code Soil Description Method Shelby Tube.



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60255

Start/End Date: 07/20/2009 - 07/21/2009

Weather: High 70s, Winds SE 0-5mph, sun&clouds

Northing: 1118052.29

Easting: 928320.19

Mud Line: 360.42 Ft

Surface Water Depth: 2.7 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Page 4 of 4

Borehole Logging Company: PARSONS

Borehole Geologist: DCB Rig Type: CME75

Total Depth: 75.0 Ft

Water Elevation: 363.12

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	1
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratum
60			WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray laminated, SILT and Clay, plastic, sewage-like odor.	2SS-140H	
-			WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray laminated, SILT and Clay, plastic, sewage-like odor.	2SS-140H	
65			WH-WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray laminated, SILT and Clay, plastic, sewage-like odor.	2SS-140H	
							Shelby Tube.	Shelby	Silt and Clay
			WH-WH-WH	0	0	ML/CL	Moist, very soft, dark gray and dark green-gray laminated, SILT and Clay, plastic, sewage-like odor.	2SS-140H	
70							Drill down from 70-71 ft.		
†							Shelby Tube.	Shelby	
† 			WH-WH-WH	0	0	ML/CL	Moist to wet, very soft, dark gray and dark green-gray laminated, SILT and Clay, plastic.	2SS-140H	
75.0			Note: Nu	I fields ind	icate readi	ngs were no	ot taken.		

Page 1 of 4



Site: Onondaga Lake (Syracuse NY)

Rig Type: CME75

Boring No: OL-SB-60256

Start/End Date: 07/16/2009 - 07/17/2009

Weather: Sunny, high 70s, winds 10-15mph SW

Northing: 1117950.94

Easting: 928087.38

Mud Line: 360.56 Ft

Surface Water Depth: 2.5 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD

Total Depth: 80.0 Ft
Water Elevation: 363.06

Depth Units: Ft

Depth Units

Depth S	Sample	Blow	N	PID	USCS	Soil Description	Sample Method	Stratu
	ž ID	Count	Value	(ppm)	Code	·	Method	Ollatu
0		1-1-WH-WH	1	0	SM	Wet, very loose, gray and light gray, fine SAND, some silt, trace shells, slight petroleum odor.	2SS-140H	
		WH-WH-1-1	1	0	SM	Wet, very loose, gray and light gray, fine SAND, some silt, trace shells, slight petroleum odor.	2SS-140H	-
5 +		WH-WH-WH-WH	0	0	SM	0-12 inches: Wet, very loose, gray and light gray, fine SAND, some silt, trace shells, slight petroleum odor; 12-16 inches: Wet, very soft, greenish tan, SILT and fine SAND, trace shells, sulfur odor.	2SS-140H	-
	7	WH-WH-WH-WH	0			No Recovery.	2SS-140H	-
		WH-WH-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, little fine sand, trace shells, sulfur odor.	2SS-140H	-
10 +		WH-WH-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, little fine sand, trace shells, sulfur odor.	2SS-140H	- Mar
†		WH-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, little fine sand, trace shells, thinly bedded.	2SS-140H	_
15		WH-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, little fine sand, trace shells, thinly bedded.	2SS-140H	_
+						Shelby Tube.	Shelby	
		WR-WR-WR-WR	0	0	ML	Wet, very soft, greenish tan, SILT, little fine sand, trace shells, sulfur odor.	2SS-140H	-
20		WR-WR-WR	0	0	ML		2SS-140H	Н

Page 2 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60256

Start/End Date: 07/16/2009 - 07/17/2009

Weather: Sunny, high 70s, winds 10-15mph SW

Northing: 1117950.94

Drilling Company: Atlantic Testing

Total Depth: 80.0 Ft

Easting: 928087.38

Driller: Mark Childs

Water Elevation: 363.06

Mud Line: 360.56 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: SBD Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS	Onli De endiation	Sample	044
Ft	8	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
20							Drill down from 20 to 21 ft. Shelby Tube.	Shelby	_
-	Ī		WH-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, sulfur odor.	2SS-140H	<u>-</u>
25 +			WR-WR-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace clay, trace shells.	2SS-140H	_
			WH-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace clay, trace shells.	2SS-140H	-
30 +			WH-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace clay, trace shells.	2SS-140H	Mari
†			WH-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace clay, trace shells.	2SS-140H	-
†		-					Shelby Tube, Poor Recovery. Sample archived in geotechnical jar.	Shelby	-
35 +							Shelby Tube.	Shelby	-
		_	WH-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace clay, trace shells, slight sulfur odor.	2SS-140H	_
+			WR-WR-WR	0	0	ML	Wet, very soft, greenish brown, SILT, trace clay, trace shells, slight sulfur odor.	2SS-140H	

Page 3 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60256

Start/End Date: 07/16/2009 - 07/17/2009

Weather: Sunny, high 70s, winds 10-15mph SW

Northing: 1117950.94 Easting: 928087.38 **Drilling Company: Atlantic Testing**

Total Depth: 80.0 Ft

Mud Line: 360.56 Ft

Driller: Mark Childs
Borehole Logging Company: PARSONS

Water Elevation: 363.06

Surface Water Depth: 2.5 Ft

Parahala Caalagist: SBD Pig

Borehole Geologist: SBD	Rig Type: CME75
-------------------------	-----------------

Depth	Recov	Sample	Blow	N	PID	USCS	0.110	Sample	l., ,
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
40			WR-WR-WR-WR	0	0	ML	Wet, very soft, greenish brown, SILT, trace clay, trace shells, slight sulfur odor.	2SS-140H	
		1	WR-WR-WR	0	0	ML	Wet, very soft, brownish gray, SILT, some clay, trace shells.	2SS-140H	
_			WR-WR-WR	0	0	ML	Wet, very soft, brown, SILT, little clay, trace shells.	2SS-140H	-
45 +			WR-WR-WR	0	0	ML	Wet, very soft, brown, SILT, little clay, trace shells.	2SS-140H	
		,	WR-WR-WR	0	0	ML	Wet, very soft, brown, SILT, some clay, trace shells.	2SS-140H	-
50 +		1					Shelby Tube.	Shelby	Marl
†		-	WR-WR-WR	0	0	ML	Wet, very soft, greenish gray and dark gray mottled, SILT, some clay, trace shell fragments.	2SS-140H	
+		-	WH-WH-WH	0	0	ML	Wet, very soft, greenish gray-brown and dark gray mottled, SILT, some clay, trace shell fragments.	2SS-140H	_
55 +		-	WR-WR-WR	0	0	ML	Wet, very soft, greenish gray-brown and dark gray mottled, SILT, some clay, trace shell fragments.	2SS-140H	-
†		-	WR-WR-WH-WH	0	0	ML	Wet, very soft, greenish gray-brown and dark gray mottled, SILT, some clay, trace shell fragments, burrows and bioturbations.	2SS-140H	-
+			WR-WR-WR	0	0	ML/CL	Wet, very soft, greenish gray and black thinly laminated, SILT and Clay, bioturbations and burrows.	2SS-140H	Silt and C

Page 4 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60256

Start/End Date: 07/16/2009 - 07/17/2009

Weather: Sunny, high 70s, winds 10-15mph SW

Northing: 1117950.94

Drilling Company: Atlantic Testing

Driller: Mark Childs

Total Depth: 80.0 Ft Water Elevation: 363.06

Easting: 928087.38 Mud Line: 360.56 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: SBD

Rig Type: CME75

Depth g	Sample	Blow	N	PID	USCS		Sample	
Depth S	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratur
60		WR-WR-WR-WR	0	0	ML/CL	Wet, very soft, greenish gray and black thinly laminated, SILT and Clay, bioturbations and burrows.	2SS-140H	
		WR-WH-WH	0	0	ML/CL	Wet, very soft, greenish gray and black thinly laminated, SILT and Clay, bioturbations and burrows.	2SS-140H	
		WR-WR-WR	0	0	ML/CL	Wet, very soft, greenish gray and black thinly laminated, SILT and Clay, bioturbations and burrows.	2SS-140H	•
65 —		WH-WH-WH-WH	0	0	ML/CL	Wet, very soft, greenish gray and black thinly laminated, SILT and Clay, bioturbations and burrows.	2SS-140H	
		WR-WR-WR-WR	0	0	ML/CL	Wet, very soft, greenish gray and black thinly laminated, SILT and Clay, bioturbations and burrows.	2SS-140H	
70						Shelby Tube.	Shelby	Silt and C
		WR-WR-WR	0	0	ML/CL	Wet, very soft, thinly laminated, SILT and Clay, bioturbated.	2SS-140H	
	1					Drill down from 73 to 74 ft.		
75 +	7					Shelby Tube, No Recovery.	Shelby	
						Shelby Tube.	Shelby	
†		WR-WR-WR	0	0	CL/ML	Wet, very soft, dark brown and black laminated, CLAY and Silt, plastic.	2SS-140H	-

Page 1 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60257

Start/End Date: 07/14/2009 - 07/15/2009

Weather: Low 70s, Winds SW 10-15mph, sun&clouds

Northing: 1117720.73 Easting: 927978.59

Mud Line: 361.08 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Total Depth: 78.0 Ft

Water Elevation: 363.58 Borehole Depth Units: Ft

Surface Water Depth: 2.5 Ft Borehole Geologist: SBD Rig Type: CME75

Depth Ft	Recov	Sample	Blow Count	N Value	PID (ppm)	USCS	Soil Description	Sample Method	044
	/	10	wн-wн-wн	0	(ррш)	Code	No Recovery.	2SS-140H	
			1-1-WH-WH	1	0.8	SP	Wet, very loose, dark gray and gray, fine SAND, trace shells.	2SS-140H	
;			wн-wн-wн	0	0	SP	Wet, very loose, gray, fine SAND, slight odor.	2SS-140H	
			wн-wн-wн	0	0	SP	Wet, very loose, gray, fine SAND, slight odor.	2SS-140H	
			wн-wн-wн	0	0	ML	Wet, very soft, tan, SILT, little fine sand, trace shells, slight odor.	2SS-140H	
0 +			WR-WR-WH-WH	0	0	ML	Wet, very soft, tan, SILT, little fine sand, trace shells, trace fine to medium sand at bottom, slight odor.	2SS-140H	Ma
†			1-WH-WH-WH	0	0	ML	Wet, very loose, gray and dark gray, SILT, some fine sand, trace shells.	2SS-140H	
5 +			WR-WR-WR	0	0	ML	Wet, very soft, greenish tan, SILT, little fine sand, trace shells, sulfur odor.	2SS-140H	
†			WR-WR-WR	0	0	ML	Wet, very soft, greenish tan, SILT, little fine sand, trace shells, sulfur odor.	2SS-140H	
†			WR-WR-WR	0			No Recovery.	2SS-140H	



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60257

Start/End Date: 07/14/2009 - 07/15/2009

Weather: Low 70s, Winds SW 10-15mph, sun&clouds

Northing: 1117720.73

Easting: 927978.59

Mud Line: 361.08 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Page 2 of 4

Borehole Logging Company: PARSONS

Water Elevation: 363.58 Borehole Depth Units: Ft

Total Depth: 78.0 Ft

Surface	Wate	er Depth:	2.5 Ft	Borel	nole Geo	ologist: S	BD Rig Type: CME75		
Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratur
20							Shelby Tube.	Shelby	
			WR-WR-WR	0	0	ML	Wet, very soft, greenish tan, SILT, trace clay, trace fine sand, trace shells.	2SS-140H	
). 1	Ē,						Drill down from 24 to 25 ft.		
25		}					Shelby Tube.	Shelby	
			WH-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells.	2SS-140H	
30 +			WH-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace shells, slight odor.	2SS-140H	Marl
+			WH-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace shells, slight odor.	2SS-140H	
			WH-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace shells, slight odor.	2SS-140H	
35 +			WR-WR-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace shells.	2SS-140H	
†			WH-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace shells.	2SS-140H	
+							Shelby Tube.	Shelby	

Page 3 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60257

Start/End Date: 07/14/2009 - 07/15/2009

Weather: Low 70s, Winds SW 10-15mph, sun&clouds

Northing: 1117720.73

Drilling Company: Atlantic Testing

Total Depth: 78.0 Ft

Easting: 927978.59

Driller: Mark Childs

Water Elevation: 363.58

Mud Line: 361.08 Ft

Borehole Logging Company: PARSONS

Borehole Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: SBD Rig Type: CME75

Depth	Sample	Blow	N	PID	USCS		Sample	
Ft	ag ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratun
40						Shelby Tube.	Shelby	
		WR-WH-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace clay, trace shells.	2SS-140H	
		WH-WH-WH	0	0	ML	Wet, very soft, greenish brown, SILT, trace clay, trace shells.	2SS-140H	
45		WH-WH-WH-WH	0	0	ML	Wet, very soft, brown and dark gray mottled, SILT, little clay, trace shells.	2SS-140H	-
‡		WH-WH-WH	0	0	ML	Wet, very soft, brown and dark gray mottled, SILT, some clay, trace shells.	2SS-140H	•
50				1 - 50		Shelby Tube.	Shelby	Marl
†		WH-WH-WH	0	0	ML/CL	Wet, very soft, brown and dark gray laminated and motlled, SILT and Clay, trace shells, trace organics (woody grass).	2SS-140H	
†		WH-WH-WH	0	0	ML/CL	Wet, very soft, dark brown and gray mottled, SILT and Clay, trace shells.	2SS-140H	-
55 +		WR-WR-WR-WR	0	0	ML/CL	Wet, very soft, dark brown and gray mottled, SILT and Clay, trace shell fragments.	2SS-140H	-
†		WH-WH-WH	0	0.1	ML/CL	Wet, very soft, dark brown and gray mottled, SILT and Clay, trace shell fragments (three shell fragments observed).	2SS-140H	
†		WR-WR-WR	0	0	ML/CL	Wet, very soft, dark greenish gray-brown and black laminated, SILT and Clay, bioturbated.	2SS-140H	Silt and Cla

BORING LOG Page 4 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60257

Start/End Date: 07/14/2009 - 07/15/2009

Weather: Low 70s, Winds SW 10-15mph, sun&clouds

Northing: 1117720.73 Easting: 927978.59 Mud Line: 361.08 Ft **Drilling Company: Atlantic Testing**

Driller: Mark Childs

Borehole Logging Company: PARSONS

Surface Water Depth: 2.5 Ft Borehole Geologist: SBD Rig Type: CME75

Total Depth: 78.0 Ft

Water Elevation: 363.58
Borehole Depth Units: Ft

USCS Depth Sample Blow N PID Sample Soil Description Stratum Ft ID Count Value (ppm) Code Method 60 Wet, very soft, dark greenish gray-brown and black ML/CL 0 0 2SS-140F VR-WR-WR-WF laminated, SILT and Clay, bioturbated. Wet, very soft, dark greenish gray-brown and black laminated, SILT and Clay, bioturbated. 0 0 ML/CL 2SS-140F WR-WR-WR-WR Wet, very soft, dark greenish gray-brown and black laminated, SILT and Clay, bioturbated, strong odor. VR-WR-WR-WR 0 1.8 ML/CL 2SS-140F 65 Wet, very soft, dark greenish gray-brown and black laminated, SILT and Clay, bioturbated, strong odor. 0 0.9 ML/CL 2SS-140F WR-WR-WR-WR Wet, very soft, dark greenish gray-brown and black laminated, SILT and Clay, bioturbated, strong odor. WR-WR-WR-WR 0 2.0 ML/CL 2SS-140H Silt and Clay Shelby Tube. 70 Shelby Wet, very soft, dark greenish gray-brown and black thinly laminated, SILT and Clay, bioturbated. 0 ML/CL WR-WR-WR-WR 2SS-140F Drill down from 73 to 74 ft. Shelby Tube. Shelby 75 Wet, very soft, dark greenish gray-brown and black laminated, SILT and Clay. VR-WR-WR-WF 0 0 ML/CL 2SS-140H 78.0 Note: Null fields indicate readings were not taken.

Page 1 of 5

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60258

Start/End Date: 07/13/2009 - 07/14/2009

Weather: Low 70s, sunny, cool, winds 10-20mph W

Northing: 1117362.60

Easting: 927594.23

Surface Water Depth: 3 Ft

Mud Line: 360.50 Ft

Drilling Company: Atlantic Testing Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD

Rig Type: CME75

Total Depth: 82.0 Ft

Water Elevation: 363.50

Depth Ft r	Sample ID	Blow	N Value	PID (ppm)	USCS	Soil Description	Sample Method	۱۵، ،
0		WH-WH-WH-WH	0	0	ML/SM	0-3 inches: Wet, very soft, tan, SILT and fine Sand; 3-5 inches: Wet, very loose, black, fine SAND, some cinders, slight odor, visible sheen.	2SS-140H	
		WH-1-1-1	2	1	SP	Wet, loose, black, SAND, slight sheen, trace cinders, trace wood chips, petroleum -like odor, slight sheen.	2SS-140H	Sand
5 +		WH-1-1-WH	2	1.5	sw	Wet, loose, black, SAND, trace shells, little wood chips, trace cinder, tar-like odor, strong sheen.	2SS-140H	-
Ī		1-1-1-1	2	0	SP	Wet, loose, black, SAND, trace shells, strong sheen.	2SS-140H	
		WH-WH-WH	0	0		No Recovery.	2SS-140H	-
10 +		WH-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, some fine sand, trace small shells, sulfur odor.	2SS-140H	-
		WH-WH-WH	0	2	ML	Wet, very soft, greenish tan, SILT, some fine sand, trace small shells, sulfur odor.	2SS-140H	Marl
15		WH-WH-WH	0	0.1	ML	Wet, very soft, greenish tan, SILT, some fine sand, trace small shells, sulfur odor.	2SS-140H	-
		WH-WH-WH	0		ML	Wet, very soft, greenish tan, SILT, some fine sand, trace small shells, sulfur odor.	2SS-140H	-
						Shelby Tube.	Shelby	

Page 2 of 5

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60258

Start/End Date: 07/13/2009 - 07/14/2009

Weather: Low 70s, sunny, cool, winds 10-20mph W

Northing: 1117362.60

Drilling Company: Atlantic Testing

Total Depth: 82.0 Ft

Easting: 927594.23

Driller: Mark Childs

Water Elevation: 363.50

Mud Line: 360.50 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 3 Ft

Borehole Geologist: SBD

Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratur
20			WH-WH-WH-WH	0	0		Poor Recovery.	2SS-140H	
					0	ML	Drill down from 22 to 23 ft.		
-					0.1		Shelby Tube.	Shelby	
25 —	Ī		WH-WH-WH	0		ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, sulfur odor.	2SS-140H	
			WR-WR-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, sulfur odor.	2SS-140H	
30 +			WH-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, sulfur odor.	2SS-140H	Marl
† †		-	WH-WH-WH	0	0	ML	Wet, very soft, greenish-light brown, SILT, trace clay, trace shells.	2SS-140H	-
†		-	WH-WH-WH	0	0	ML	Wet, very soft, greenish-light brown, SILT, trace clay, trace shells.	2SS-140H	-
35 +		-	WR-WH-WH-WH	0	0	ML	Wet, very soft, greenish-light brown, SILT, trace clay, trace shells.	2SS-140H	-
		-	WH-WH-WH	0	0	ML	Wet, very soft, greenish-light brown, SILT, trace clay, trace shells.	2SS-140H	
+			WH-WH-WH	0	0	ML	Wet, very soft, greenish-light brown, SILT, trace clay, trace shells.	2SS-140H	

Page 3 of 5

Driller: Mark Childs

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60258

Start/End Date: 07/13/2009 - 07/14/2009

Weather: Low 70s, sunny, cool, winds 10-20mph W

Total Depth: 82.0 Ft

Depth Units: Ft

Water Elevation: 363.50

Northing: 1117362.60

Drilling Company: Atlantic Testing

Easting: 927594.23 Mud Line: 360.50 Ft

Borehole Logging Company: PARSONS

Surface Water Depth: 3 Ft

Borehole Geologist: SBD Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS	Soil Description	Sample	۱۵، ،
Ft	22	ID	Count	Value	(ppm)	Code	,	Method	Otrate
40			WH-WH-WH-WH	0	0	ML	Wet, very soft, greenish-light brown, SILT, trace clay, trace shells.	2SS-140H	
			WH-WH-WH	0	0	ML	Wet, very soft, greenish-light brown, SILT, trace clay, trace shells.	2SS-140H	
			WH-WH-WH-WH	0	0	ML	Wet, very soft, dark brown, SILT, some clay, trace shells.	2SS-140H	
45 +	Ī		WR-WR-WH-WH	0	0	MĹ	Wet, very soft, light brown, SILT, little clay, trace shells.	2SS-140H	
Ì			WH-WH-WH	0	0	ML	Wet, very soft, dark brown an dark gray mottled, SILT, little clay, trace shells.	2SS-140H	
50 +			WR-WR-WR-WH	0	0	ML	Wet, very soft, dark brown an dark gray mottled, SILT, little clay, trace shells.	2SS-140H	Mar
+					0	ML	Wet, very soft, dark brown an dark gray mottled, SILT, little clay, trace shells.	2SS-140H	_
			WH-WH-WH-WH	0	0	ML/CL	Wet, very soft, dark brown and dark gray mottled, SILT and Clay, trace shell fragments, plastic.	2SS-140H	
55 +			WR-WH-WH	0	0	ML/CL	Wet, very soft, dark brown and dark gray mottled, SILT and Clay, trace shell fragments, plastic.	2SS-140H	
†			WR-WH-WH	0	0	ML/CL	Wet, very soft, dark greenish gray and black thinly laminated, SILT and Clay, trace shell fragments (three whole shells observed), bioturbation and burrows.	2SS-140H	
60 1			WR-WR-WR	0	0	ML/CL	Wet, very soft, dark greenish gray and black thinly laminated, SILT and Clay, trace shells (one shell observe bioturbation and burrows.	2 5S-140H	<u> </u>

Page 4 of 5

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60258

Start/End Date: 07/13/2009 - 07/14/2009

Weather: Low 70s, sunny, cool, winds 10-20mph W

Northing: 1117362.60

Drilling Company: Atlantic Testing

Driller: Mark Childs

Total Depth: 82.0 Ft
Water Elevation: 363.50

Easting: 927594.23 Mud Line: 360.50 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 3 Ft

Borehole Geologist: SBD Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS	Soil Description	Sample Method	Stratur
60 Ft	Ľ	10	Count wr-wr-wr	Value 0	(ppm)	Code ML/CL	Wet, very soft, dark greenish gray and black thinly laminated, SILT and Clay, trace shells (one shell observe		
İ			WR-WR-WH-WH	0	0	ML/CL	bioturbation and burrows. Wet, very soft, dark greenish gray and black thinly laminated, SILT and Clay, bioturbation and burrows.	2SS-140H	
Ī			WR-WR-WR	0	0	ML/CL	Wet, very soft, dark greenish gray and black thinly laminated, SILT and Clay, bioturbation and burrows.	2SS-140H	
65 +			WR-WR-WH-WH	0		ML/CL	Wet, very soft, dark greenish gray and black thinly laminated, SILT and Clay, bioturbation and burrows.	2SS-140H	
	H		WR-WR-WR	0	0	ML/CL	Wet, very soft, dark greenish gray and black thinly laminated, SILT and Clay, bioturbation and burrows.	2SS-140H	
70 +			WR-WR-WR	0	0	ML/CL	Wet, very soft, dark greenish gray and black thinly laminated, SILT and Clay, bioturbation and burrows.	2SS-140H	Silt and C
		-					Shelby Tube.	Shelby	
†		-	WR-WR-WR	0	0	ML/CL	Wet, very soft, greenish gray and black thinly laminated, SILT and Clay, bioturbation.	2SS-140H	
75 +		-				ML/CL	Drill down from 75 to 76 ft.		
†							Shelby Tube, No Recovery.	Shelby	
							Shelby Tube.	Shelby	

Page 5 of 5

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60258

Start/End Date: 07/13/2009 - 07/14/2009

Weather: Low 70s, sunny, cool, winds 10-20mph W

Northing: 1117362.60

Easting: 927594.23

Mud Line: 360.50 Ft

Surface Water Depth: 3 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD

Rig Type: CME75

Total Depth: 82.0 Ft

Water Elevation: 363.50

Depth Units: Ft

Depth	Samp	le Blow	N	PID	USCS		Sample	
Ft d	E ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratum
82.0		WR-WR-WR-WR	0	0	ML/CL	Wet, very soft, greenish gray and black laminated, SILT and Clay.	2SS-140H	Silt and Clay

Note: Null fields indicate readings were not taken.

Page 1 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60259

Start/End Date: 07/09/2009 - 07/10/2009 Weather: High 70s, winds 5-10mph, sunny

Northing: 1117227.69 Easting: 927525.31

Mud Line: 360.66 Ft

7227.69 Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Geologist: SBD

Borehole Logging Company: PARSONS

Surface Water Depth: 2.9 Ft

Rig Type: CME 75

Total Depth: 74.0 Ft Water Elevation: 363.56

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratur
0		ID.	WR-WR-WR	0	0.2	sw	Wet, very loose, fine to coarse SAND, little gravel, trace clay, trace shells, sewage-like odor.	2SS-140H	
			WH-WH-WH	0	0.5	sw	Wet, very loose, fine to coarse SAND, trace shells, sewage-like odor.	2SS-140H	-
5 —			1-WH-1-1	1	0.2	sw	0-5 inches: Wet, very loose, fine to coarse SAND, trace shells, sewage-like odor; 5-7 inches: Wet, very soft, tan, SILT and fine Sand, trace shells.	2SS-140H	-
+			2-1-1-1	2	0.1	ML/SM	Wet, soft, greenish tan, SILT and fine Sand, trace shells.	2SS-140H	-
			WH-WH-WH	0	0.1		Poor Recovery.	2SS-140H	-
10 +			WH-WH-WH	0		ML/SM	Wet, very soft, greenish tan, SILT and fine Sand, trace shells.	2SS-140H	- Marl
+			WH-WH-WH	0	0.1	ML/SM	Wet, very soft, SILT and fine Sand.	2SS-140H	_
15			WH-WH-WH	0	0.1	ML/SM	Wet, very soft, SILT and fine Sand, trace shells, sulfur odor.	2SS-140H	_
+							Shelby Tube.	Shelby	
+				0	0	ML	Wet, very soft, greenish tan, SILT, trace shells, sulfur odor.	2SS-140H	
₂₀									L

Page 2 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60259

Start/End Date: 07/09/2009 - 07/10/2009 Weather: High 70s, winds 5-10mph, sunny

Northing: 1117227.69

Easting: 927525.31

Mud Line: 360.66 Ft

Drilling Company: Atlantic Testing Driller: Mark Childs

Borehole Logging Company: PARSONS

Total Depth: 74.0 Ft Water Elevation: 363.56

D. H.	>	0	Disco	- N1	DID	11000	1	01-	1
Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratu
20							Drill down from 20 to 21 ft.		
		1					Shelby Tube.	Shelby	-
			WH-WH-WH-WH	0	0.2	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, trace organics (grass), sulfur odor.	2SS-140H	-
25			WRWH-WH-WH	0	0.1	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, trace organics (grass), sulfur odor.	2SS-140H	-
İ			WH-WH-WH-WH	0	0.1	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, trace organics (grass), sulfur odor.	2SS-140H	-
30 +			WH-WH-WH-WH	0	0.1	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, trace organics (grass), sulfur odor.	2SS-140H	l Marl
†			WH-WH-WH-WH	0	0.2	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, trace organics (grass), sulfur odor.	2SS-140H	-
†			WH-WH-WH-WH	0	0.2	ML	Wet, very soft, greenish brown, SILT, trace clay, trace shells.	2SS-140H	-
35 +			WR-WR-WH-WH	0	0.1	ML	Wet, very soft, tan and brown, SILT, trace shells.	2SS-140H	-
†			WH-WH-WH	0	0.1	ML	Wet, very soft, tan and brown, SILT, trace shells.	2SS-140H	-
†			WH-WH-WH	0	0.1	ML	Wet, very soft, tan and brown, SILT, trace shells.	2SS-140H	

Page 3 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60259

Start/End Date: 07/09/2009 - 07/10/2009 Weather: High 70s, winds 5-10mph, sunny

Northing: 1117227.69

Drilling Company: Atlantic Testing

Total Depth: 74.0 Ft

Easting: 927525.31

Driller: Mark Childs

Water Elevation: 363.56

Mud Line: 360.66 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.9 Ft

Borehole Geologist: SBD Rig Type: CME 75

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratur
40			WH-WH-WH-WH	0	0.1	ML	Wet, very soft, tan and brown, SILT, trace shells.	2SS-140H	
İ			WH-WH-WH	0	0	ML	Wet, very soft, tan and brown, SILT, little clay, trace shells.	2SS-140H	
			WH-WH-WH	0	0.1	ML	Wet, very soft, tan and brown, SILT, little clay, trace shells.	2SS-140H	
45 —			WR-WR-WH-WH	0	0.1	ML	Wet, very soft, tan and brown, SILT, little clay, trace shells.	2SS-140H	
			WH-WH-WH	0	0.1	ML	0-12 inches: Wet, very soft, tan and brown, SILT, little clay, trace shells; 12-24 inches: Wet, very soft, brown and dark gray mottled, SILT, little clay, trace shell fragments.	2SS-140H	Marl
50 +		. <u>.</u>	WR-WR-WH-WH	0	0.1	ML	Wet, very soft, brown and dark gray mottled, SILT, little clay, trace shell fragments.	2SS-140H	
-		-	WH-WH-WH	0	0.1	ML	Wet, very soft, brown and dark gray mottled, SILT, little clay, trace shell fragments.	2SS-140H	
		-	WH-WH-WH	0	0.1	ML	Wet, very soft, dark gray and brown mottled, SILT, little clay, trace shell fragments, trace organics (wood), bioturbated.	2SS-140H	
55 +		-	WR-WR-WR	0	0.1	ML	Wet, very soft, dark gray and brown mottled, SILT, little clay, trace organics (wood), bioturbated.	2SS-140H	
			WR-WR-WH-WH	0	0.1	ML	Wet, very soft, dark gray and brown mottled, SILT, little clay, trace organics (wood), bioturbated.	2SS-140H	Silt and Cla
†			WR-WH-WH	0	0.1	ML/CL	Wet, very soft, dark gray and greenish gray and tan-brown thinly laminated, SILT and Clay.	2SS-140H	

Page 4 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-60259

Start/End Date: 07/09/2009 - 07/10/2009 Weather: High 70s, winds 5-10mph, sunny

Northing: 1117227.69

Drilling Company: Atlantic Testing

Total Depth: 74.0 Ft

Easting: 927525.31

Driller: Mark Childs

Water Elevation: 363.56

Mud Line: 360.66 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.9 Ft

Borehole Geologist: SBD Rig Type: CME 75

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratun
60			WR-WH-WH-WH	0	0.1	ML/CL	Wet, very soft, dark gray and greenish gray and tan-brown thinly laminated, SILT and Clay.	2SS-140H	
			WR-WH-WH	0	0.2	ML/CL	Wet, very soft, dark gray and greenish gray and tan-brown thinly laminated, SILT and Clay.	2SS-140H	
1			WH-WH-WH	0	0	ML/CL	Wet, very soft, dark gray and greenish gray and tan-brown thinly laminated, SILT and Clay.	2SS-140H	_
65 +							Shelby Tube.	Shelby	_
			WR-WR-WH	0	0	ML/CL	Wet, very soft, dark gray and greenish gray thinly laminated, SILT and Clay.	2SS-140H	Silt and Cl
		1				ML/CL	Drill down from 69 to 70 ft.		_
70 +							Shelby Tube.		
t					0			Shelby	
†						ML/CL	Wet, very soft, dark gray and greenish gray laminated, SILT and Clay.	2SS-140H	-

Note: Null fields indicate readings were not taken.

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 7

Boring No: OL-VC-60229

Date: 07/30/2009

Weather: High 80s, Winds W-NW 5-10mph, cloudy

Northing: 1120046.72

Easting: 928889.24

Mud Line: 361.9 Ft

Driller: Atlantic Testing

Logging Company: PARSONS

Geologist: H SLETTEN

Surface Water Depth: 1.2 Ft Penetration Depth: 9

Water Elev: 363.1 Ft

Attempts: 1

8	Sample	PID	USCS		Sample	
Re	ID	(ppm)	Code	Soil Description	Method	Stratum
	OL-0854-10	5.5	ML-SP	0-6 inches: Wet, soft to medium stiff, black, SILT, little to some fine sand, trace shells, petroleum-like odor (ML); Rest of core is wet, dense, gray-brown, fine SAND, trace silt, little shells, petroleum-like odor, sulfur odor (MARL) (SP).	Vibracore -	Silt
	OL-0854-11	15.6	SP	0-4 inches: Wet, soft, black, SILT, trace fine sand, petroleum-like odor (ML); Rest of core is wet, dense, dark gray to grayis-brown, fine SAND, little silt, little shells, petroleum-like odor, sulfur odor (MARL) (SP).	Vibracore	
	OL-085 4- 12	96.5	SM	Wet, loose, grayish brown, fine SAND and Silt, trace shells, trace organics (roots), sulfur odor (MARL).	Vibracore	
Ĭ	OL-085 4 -13	76.6	SM	0-6 inches: Wet, loose, gray-brown, fine SAND and Silt, grading to SILT and fine Sand, trace shells, trace organics (roots), sulfur odor (MARL) (SM)	Vibracore	Marl
	OL-0854-14	99.5	ML	Wet, soft, gray-brown, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	
	OL-0854-15	105	SM	Wet, medium dense, gray-brown, fine SAND and Silt, trace shells, sulfur odor (MARL).	Vibracore	
	Recov	OL-0854-11 OL-0854-12 OL-0854-13	OL-0854-10 5.5 OL-0854-11 15.6 OL-0854-12 96.5 OL-0854-13 76.6	OL-0854-10 5.5 ML-SP OL-0854-11 15.6 SP OL-0854-12 96.5 SM OL-0854-13 76.6 SM OL-0854-14 99.5 ML	OL-0854-10 5.5 ML-SP ML-SP OL-0854-10 OL-0854-11 OL-0854-11 OL-0854-11 OL-0854-12 OL-0854-12 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-14 OL-0854-16 OL-0854-16 OL-0854-16 OL-0854-17 OL-0854-18 OL-0854-19	OL-0854-10 OL-0854-10 OL-0854-10 OL-0854-11 OL-0854-11 OL-0854-12 OL-0854-13 OL-0854-14 OL-0854-15 OL-0854-16 OL-0854-16 OL-0854-17 OL-0854-17 OL-0854-18 OL-0854-18 OL-0854-19 OL-085

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60230

Date: 07/29/2009

Weather: Low 80s, Winds SW 10-15mph, sun w/showers

Northing: 1119831.48

Driller: Atlantic Testing

Water Elev: 363.1 Ft

Easting: 928852.32 Mud Line: 362.2 Ft Logging Company: PARSONS

Attempts: 3
Depth Units: Ft

Surface Water Depth: 0.9 Ft

Geologist: H SLETTEN
Penetration Depth: 10

Core Recovery Depth: 4.8

Depth	Recov	Sample	PID	USCS		Sample	.
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0853-04	0.6	SP	Wet, medium dense to dense, dark gray, fine SAND, trace shells; fine to medium sand and shell seam from 3.5 -8.5 inches.	Vibracore	
		OL-0853-06	5.6	SP	Wet, dense to medium dense, dark gray-brown to black, fine SAND, silt from 8-11 inches, trace shells, petroleum-like odor.	Vibracore	Sand
		OL-0853-07	10.8	SP	Wet, very dense, dark gray-brown, fine SAND, little silt, little shells, piece of wood at 5.5 inches, petroleum-like odor (SP); Bottom 2 inches is wet, soft, grayish brown, SILT, little shells, sulfur odor (MARL) (ML).	Vibracore	
		OL-0853-08	2.7	ML	Wet, soft, gray-brown, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	Marl
	OL-0853-09	1.8	ML	Wet, soft, gray-brown, SILT, little to trace fine sand, trace shells, sulfur odor (MARL).	Vibracore		

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60231

Date: 07/29/2009

Weather: Low 80s, WInds SW 10-15mph, sunny

Water Elev: 363.1 Ft

Attempts: 3

Depth Units: Ft

Northing: 1119595.96

Easting: 928752.09 Mud Line: 361.9 Ft **Driller: Atlantic Testing**

Logging Company: PARSONS

Geologist: H SLETTEN

Surface Water Depth: 1.2 Ft

Penetration Depth: 10 Core Recovery Depth: 7.5

Depth	700	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0852-16	0.6	ML	0-5 inches: Wet, medium dense, gray-brown, fine SAND, little silt, little shells (SP); Rest of core is wet, soft, black, SILT, trace fine sand, trace shells, petroleum-like odor (ML).	Vibracore -	Fine Sand
1		OL-0852-17	13,6	ML	Wet, soft to medium stiff, black to brown, SILT, some to little fine sand, trace clay in bottom 3 inches, trace to little shells, petroleum-like odor; fine sand seam from 8.5-9 inches (MARL).	Vibracore	
	OL-0852-18	0.4	ML	Wet, medium stiff, brown, SILT and Clay, little fine sand at 2 inches, little shells (MARL).	Vibracore		
	OL-0852-19	0.4	SP	Wet, medium dense to dense, gray-brown, fine SAND, trace silt, trace shells, trace organics (roots).	Vibracore		
-		OL-0852-20	0.4	SP	0-9 inches: Wet, very dense, brown, fine SAND, little shells; Rest of core is wet, hard, gray, SILT, little to some fine sand, trace shells, sulfur odor (MARL) (ML).	Vibracore	Marl
		OL-0853-01	3.7	ML	Wet, stiff, brown, SILT, some clay, trace shells, trace organics (roots), slight sulfur odor (MARL).	Vibracore	
	OL-0853-02	1.4	ML	Wet, stiff, brown, SILT, little to some clay, little shells, slight sulfur odor (MARL).	Vibracore		
†		OL-0853-03	0.4	ML	Wet, soft, grayish brown, SILT, little to some clay, trace shells.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60231A

Date: 08/04/2009

Weather: High 80s, sun&clouds, Winds SW 10-15mph

Northing: 1119595.96

Easting: 928752.09

Mud Line: 362.2 Ft

Surface Water Depth: 1.2 Ft

Driller: QEA

Logging Company: PARSONS

Geologist: H PHILIP

Penetration Depth: 15

Water Elev: 363.4 Ft

Attempts: 1
Depth Units: Ft

Core Recovery Depth: 10.9

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0862-08	0	sw	0-5 in is wet, very soft, black, SILT, trace fine sand, trace shells, petroleum-like odor. Rest of core is wet, very loose, dark gray, fine to medium SAND, trace shells, petroleum-like odor.	Vibracore	Silt
1		OL-0862-09	0	ML	0-3 inches is wet, very loose, dark gray, fine to medium SAND, trace shells, petroleum-like odor (SW).Rest of core is moist, soft, light brown, SILT, little fine sand, trace shells, trace organics, (MARL).	Vibracore	Fine-Medium Sa
Ī		OL-0862-11	0	ML	Moist, soft, light brown, SILT, little fine sand, trace shells, trace organics, (MARL).	Vibracore	
+		OL-0862-12	0	sw	Wet, very loose, dark grey and black, fine to medium SAND, little organics, trace shells (MARL).	Vibracore	
İ		OL-0852-13	0	ML	0-2 inches is wet, very loose, dark gray and black, fine to medium SAND, little organics, sulfur odor. Rest of core is moist, soft, brown, SILT, some fine sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
-		OL-0862-14	0	ML	Moist, soft, light brown, SILT, some fine sand, little shells, trace organics.	Vibracore	
Ī		OL-0862-15	0	ML	Moist, soft, light brown, SILT, some fine sand, little shells, trace organics.	Vibracore	Marl
		OL-0862-16	0	SM	Moist, soft, light brown, SILT, some fine sand, little shells, trace organics (MARL).	Vibracore	
†		OL-0862-17	0	SM	Moist, soft, light brown, SILT, some fine sand, little shells, trace organics (MARL).	Vibracore	
†		OL-0862-18	0	ML	Moist, soft, light brown, SILT, trace fine sand, little shells, trace organics (MARL).	Vibracore	
0 +		OL-0862-19	0	ML	Wet, very soft, brown and dark grey, SILT, trace fine sand, trace shells, trace organics, (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60232

Date: 07/29/2009

Weather: Low 80s, Winds SW 10-15mph, sunny

Core Recovery Depth: 7.6

Northing: 1119304.95

Easting: 928785.48

Surface Water Depth: 14 Ft

Mud Line: 349.1 Ft

Driller: Atlantic Testing

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 9

Water Elev: 363.1 Ft

Attempts: 1

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Rec	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0852-01	0	SM	Wet, loose to medium dense, black, fine SAND, little silt, trace shells, trace fine to coarse sub-rounded gravel, trace organics (roots), silt and clay lense from 3-5 inches & 6.5-8.5 inches, petroleum-like odor.	Vibracore	
1		OL-0852-02	0	SM	Wet, dense to medium dense, dark gray to gray-brown, fine SAND, little to some silt, trace shells, trace wood fragments, petroleum-like odor.	Vibracore	Fine Sand
¥		OL-0852-03	0	SM	0-6 inches: Wet, dense, gray-brown, fine SAND, little silt, trace shells, trace wood fragment; Rest of core is wet, soft to medium stiff, dark gray, SILT, some fine sand, little organics (roots and wood fragments), slight petroleum-like odor.	Vibracore	
#		OL-0852-05	0	ML	Wet, medium stiff to stiff, dark brown, SILT, some fine sand, little shells, little organics (roots) (MARL).	Vibracore	
+		OL-0852-06	0	ML	Wet, medium stiff to stiff, dark brown, SILT, some fine sand, little shells, little organics (roots), sulfur odor (MARL).	Vibracore	
5 +		OL-0852-07	0	ML	Wet, medium stiff, dark brown, SILT, some fine sand, little shells, slight sulfur odor, organic seam from 5.5-6.5 inches, roots in bottom 6 inches (MARL).	Vibracore	Marl
+		OL-0852-08	0	ML	Wet, stiff, dark brown, SILT, trace fine sand, trace clay to some clay in bottom 7 inches, trace organics (roots), trace shells.	Vibracore	
†		OL-0852-09	0	ML	Wet, very stiff, dark brown, SILT, little shells.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60233

Date: 07/29/2009

Weather: Low 80s, WInds SW 10-16mph, sunny

Northing: 1119047.99

Easting: 928775.12

Mud Line: 362.1 Ft Surface Water Depth: 1 Ft

Logging Company: PARSONS

Geologist: D Burkert

Driller: Atlantic Testing

Penetration Depth: 9

Water Elev: 363.1 Ft

Attempts: 3
Depth Units: Ft

Core Recovery Depth: 5.3

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0851-13	3.5	SP	0-7 inches: Wet, medium dense, black, fine SAND, little silt, petroleum-like odor (SP); Rest of core is wet, soft, black to dark gray, SILT and Clay, petroleum-like odor (ML).	Vibracore	Fine Sand
#		OL-0851-14	0.8	SP	0-4 inches: Wet, soft, dark gray, SILT, trace fine to medium sand, trace organics (wood fibers) (ML); Rest of core is wet, medium dense, dark gray, fine SAND, little silt, trace shells, slight petroleum-odor (SP).	Vibracore	Silt
		OL-0851-15	0.5	SP	Moist, medium dense, dark gray, fine SAND, trace shell, little silt.	Vibracore	
-	_	OL-0851-16	0.4	SM	Moist, medium dense, dark gray, fine SAND, some silt, little clay, trace shells.	Vibracore	Fine Sand
+		OL-0851-17	0.4	SM	Moist, medium dense, dark gray, fine SAND, some silt, little shells. Lense of shells from 6-7 inches.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60234

Date: 07/29/2009

Weather: Low 80s, WInds SW-10-15mph, sunny

Northing: 1118197.81 Easting: 928533.20

Driller: Atlantic Testing

Water Elev: 363.1 Ft

Mud Line: 362.2 Ft

Logging Company: PARSONS

Attempts: 2

Geologist: HILLARY

Depth Units: Ft

Surface Water Depth: 0.9 Ft

Penetration Depth: 9 Core Recovery Depth: 7.1

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0852-10	0	sw	Wet, dense to very dense, black, fine to medium SAND, little fine to coarse sub-rounded gravel, little wood fragments, little slag in top 4 inches, trace shells, trace shoe sole in top 1 inch.	Vibracore	
#		OL-0852-11	0.6	SM	Wet, dense to very dense, black, fine to medium SAND, some silt, silt lense from 5-7 inches and 9-10 inches, trace fine sub-rounded gravel in bottom 3 inches, trace shells, petroleum-like odor.	Vibracore	Fine-Medium Sand
+		OL-0852-12	1.4	SP	0-6 inches: Wet, soft, dark gray-brown, SILT, little fine sand, little shells, trace organics (roots), wood fragment from 5-6 inches (ML); Rest of core is wet, dense, fine SAND, trace shells (SP).	Vibracore	Silt
		OE 8002-12		0.		VIBIAGOIC	
		OL-0852-13	0.7	SM	Wet, dense, gray-brown, fine SAND, little to some silt, little shells (MARL).	Vibracore	
		OL-0852-14	0.4	SM	Wet, very dense, fine SAND, some to little silt, little shells, piece of plastic from 8-12 inches.	Vibracore	Marl
5 —		OL-0852-15	1.7	ML	Wet, very stiff to hard, gray-brown, SILT, little fine sand in top 1 inch, little shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60235

Date: 07/28/2009

Weather: High 80s Winds, SW 10-20mph, sunny

Northing: 1117711.46

Easting: 928270.26

Mud Line: 361.2 Ft

Driller: Atlantic Testing

Logging Company: PARSONS

Geologist: H SLETTEN

Water Elev: 363.2 Ft

Attempts: 2

Depth Ft	Recov	Sample ID	PID (ppm)	USCS	Soil Description	Sample Method	Stratum
0		OL-0850-01	0.7	SM	Wet, loose, black, fine to medium SAND, little silt, trace coarse sub-rounded gravel, trace glass, petroleum-like odor, large/long wood fragment from 0-12 inches.	Vibracore	Fine-Medium San
4		OL-0850-02	0.8	SM/ML	0-6 inches: Wet, loose, black, fine to medium SAND, little silt, trace sub-round gravel, wood fragment, petroleum-like odor (SM); Rest of core is wet, soft to medium stiff, dark brown, SILT, wood fragment, trace fine sub-round gravel, slight petroleum-like odor (ML).	Vibracore	
					0-6 inches: Wet, medium stiff, dark brown, SILT, some wood		
		OL-0850-03	0.4	ML/SM	fragment, slight petroleum-like odor (ML). Rest of core is wet, medium dense, dark brown to black, fine to medium SAND, little sub-round gravel, trace shells, petroleum-like odor (SM).	Vibracore	Silt
	Y	OL-0850-04	8.6	SM	0-4 inches: Wet, soft, black, SILT, some fine to medium sand, trace shells, petroleum-like odor (ML); Rest of core is wet, loose to medium dense, dark gray, fine to medium SAND, little silt, trace fine subangular gravel, some shells, trace wood fragment, petroleum-like odor.	Vibracore	
		OL-0850-05	6.4	SM	0-2.5 inches: Wet, loose, dark gray, fine to medium SAND and silt, some shells, little wood fragments, sulfur odor (MARL); Rest of core is wet, soft, gray-brown, SILT and fine Sand, little shells, sulfur odor (MARL).	Vibracore	
5 —		OL-0850-06	3.8	SP	0-4 inches: Wet, loose to medium dense, gray, fine SAND and Silt, little shells, little wood fragment, sulfur odor (MARL) (SM); Rest of core is wet, medium dense, gray, fine SAND, trace silt, little to trace shells, sulfur odor (MARL) (SP).	Vibracore	Marl

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60236

Date: 07/28/2009

Weather: High 80s, Winds SW 10-20-mph, sunny

Northing: 1117362.06 Easting: 928105.35 Driller: Atlantic Testing

Water Elev: 363.3 Ft

Mud Line: 362.1 Ft

Logging Company: PARSONS

Attempts: 1 Depth Units: Ft

Surface Water Depth: 1.2 Ft

Penetration Depth: 9

Geologist: H SLETTEN

Core Recovery Depth: 5.8

Depth	S	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0851-06	0.8	sw	Wet, medium dense, black, fine to medium SAND, little coarse sized angular slag, ammonia-like odor.	Vibracore	Fine-Medium Sar
=		OL-0851-07	0.8	ML-SM	Wet, soft, black, SiLT and fine Sand, little organic (wood pieces), little coarse sub-angular gravel, ammonia-like odor.	Vibracore	Silt/Fine Sand
		OL-0851-09	0.8	ML-SM	0-7 inches: Wet, soft, black, SILT, some fine sand, trace organics (wood pieces), ammonia-like odor; Rest of core is wet, loose, black, fine to medium SAND, some silt, trace shells.	Vibracore	
		OL-0851-10	0.5	SP	Wet, dense, gray, fine SAND, trace silt, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0851-11	10.6	SM	Wet, dense, gray, fine SAND, some silt, trace shells, sulfur odor (MARL).	Vibracore	Marl
5 +		OL-0851-12	5.8	SM	Wet, dense, gray, fine SAND, some silt, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Core Recovery Depth: 6

Boring No: OL-VC-60237

Date: 07/27/2009

Weather: High 80s, WInds W-SW 5-10mph, cloudy

Northing: 1116937.47

Easting: 927833.03

Surface Water Depth: 1 Ft

Mud Line: 362.3 Ft

Driller: Atlantic Testing

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 8

Water Elev: 363.3 Ft

Attempts: 1

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0847-01	0.1	SP	Wet, loose, dark gray to black, fine to medium SAND, some fine to coarse sub-angular gravel, some silt, cobble from 3 to 9 inches, trace organics (wood), petroleum-like odor.	Vibracore	Sand
		OL-0847-02	1	ML-CL	0-5 inches: Wet, loose, dark gray to black, fine to medium SAND, some silt, trace coarse angular gravel, trace organics (roots), petroleum-like odor (SM); Rest of core is wet, soft, dark gray to black, SILT and Clay, trace medium sand, trace organics, petroleum like odor (ML-CL).	Vibracore	
-		OL-0847-04	1.9	ML-CL	0-3 inches: Wet, loose, dark gray to black, fine SAND, some silt, petroleum-like odor (SM); 3-11 inches: Wet, soft, dark gray, SILT and Clay, some fine sand, petroleum-like odor (ML-CL); Rest of core is wet, loose, dark gray, fine SAND and Silt, trace shells (MARL), slight sulfur odor (SM).	Vibracore	Silt and Clay
		OL-0847-05	7.9	SP	0-7 inches: Wet, dark gray, loose, fine SAND, little silt, trace shells (MARL), sulfur odor (SP); Rest of core is wet, soft, dark gray, SILT, little grading to trace clay, trace fine sand, trace shells, sulfur odor (MARL) (ML).	Vibracore	
_		OL-0847-06	55.8	SM	Wet, loose, gray, fine SAND, some silt, trace shells (MARL), sulfur odor.	Vibracore	Marl
5 +		OL-0847-07	46.8	SP	Wet, loose, gray, fine SAND, some silt, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60242

Date: 08/11/2009

Weather: Mid 80s. Wind 10-15 NW. Mix Sun/Clouds.

Northing: 1117484.03

Easting: 927832.36 Mud Line: 360.8 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARAH CHMURA

Water Elev: 364.3 Ft

Attempts: 1 Depth Units: Ft

Surface Water Depth: 3.5 Ft

Penetration Depth: 11

Core Recovery Depth: 9.8

Depth	Recov	Sample	PID	USCS	Ocil Decembring	Sample	04
Ft	A.	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0880-08	0	SP	Wet, very loose, gray, fine SAND, trace silt, some organics, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0880-09	0	SP/ML	0-6 inches wet, very loose, gray, fine SAND, trace silt, trace shells, sulfur odor (MARL). Rest of core is wet, very soft, gray SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	
+		OL-0880-10	0	ML	Wet, very soft, gray, SILT, little fine sand, trace shells, trace oncolites, sulfur odor (MARL).	Vibracore	
		OL-0880-11	0	ML	Wet, very soft, gray, SILT, little fine sand, little to trace shells, trace organics, sulfur odor (MARL).	Vibracore	Marl
		OL-0880-12	0	ML	Wet, very soft, gray, SILT, little fine sand, little to trace shells, trace organics, sulfur odor (MARL).	Vibracore	
5 —		OL-0880-13	0	ML	Wet, very soft, gray, SILT, little fine sand, little to trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60243

Date: 08/11/2009

Weather: Mid 80s. Wind 10-15 NW. Mix Sun/Clouds.

Northing: 1117611.67 Easting: 927699.41

Logging Company: PARSONS

Driller: Anchor QEA

Water Elev: 364.3 Ft

Mud Line: 360.2 Ft

Geologist: SARAH CHMURA

Attempts: 3 Depth Units: Ft

Surface Water Depth: 4.1 Ft

Penetration Depth: 12 Core Recovery Depth: 7.1

Depth Ft	Recov	Sample ID	PID (ppm)	USCS Code	Soil Description	Sample	Stratum
						Method	
0		OL-0880-01	0	SP	Wet, very loose, black, fine SAND, trace silt, trace shells, trace organics, petroleum-like odor. Rainbow sheen, top 3 inches contains large wood fragments, some organics and elastic pieces (bits of rubber band),	Vibracore	Fine Sand
		OL-0880-02	0	SP/ML	0-8.5 inches is wet, loose, black to gray, fine SAND, trace silt, trace shells, petroleum-like odor, trace organics (MARL). Rest of the core is wet, very soft, gray, SILT, little fine sand, trace shells, sulfur odor, trace organics (MARL), (SM).	Vibracore	
		OL-0880-04	0	ML	Wet, very soft, gray, SILT, little fine sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
	Ĭ	OL-0880-05	0	ML	Wet, very soft, gray, SILT, little fine sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	Marl
		OL-0880-06	0	ML	Wet, very soft, gray, SILT, little to trace fine sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
5 —		OL-0880-07	0	ML	Wet, very soft, brown, SILT, trace fine sand, trace clay, low plasticity, trace shells, trace organics, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60244

Date: 08/11/2009

Weather: Mid 80s. Wind 10-15 NW. Mix Sun/Clouds.

Northing: 1117753.74

Easting: 927503.98 Mud Line: 357.5 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARAH CHMURA

Water Elev: 363.9 Ft

Attempts: 2 Depth Units: Ft

Surface Water Depth: 6.4 Ft

Penetration Depth: 10 Core Recovery Depth: 6.3

Depth	200	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0877-01	0	SP	Wet, very loose, dark gray, fine SAND, trace silt, trace fine rounded gravel in top 2 inches, slight petroleum-like odor. Top 6 inches has light brown discoloration.	Vibracore	Fine Sand
+		OL-0877-02	0.2	ML	0-4 inches is wet, loose, dark gray to light brown, SILT, little fine sand, slight petroleum-like odor, trace shells. Rest of core is wet, soft, light brown SILT, little to some fine sand, trace shells, slight sulfur odor (MARL).	Vibracore	Silt
-		OL-0877-03	0	ML	Wet, very soft, light brown, SILT, little fine sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
	Ì.	OL-0877-04	0.1	ML	Wet, very soft, light brown, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	Marl
-		OL-0877-05	0.3	ML	Wet, very soft, light brown, SILT, trace fine sand, trace shells, sulfur odor (MARL).	Vibracore	
5 +		OL-0877-06	0	ML	Wet, very soft, light brown, SILT, trace fine sand, trace shells, sulfur odor (MARL).	Vibracore	
6.0 \(\begin{array}{c} \begin{array}{c} \end{array} \end{array}							

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60245

Date: 08/11/2009

Weather: Mid 80s. Wind 10-15 NW. Mix Sun/Clouds.

Northing: 1117882.36

Easting: 927381.58

Mud Line: 354.6 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARAH CHMURA

Water Elev: 363.9 Ft

Attempts: 1

Depth Ft	Recov	Sample ID	PID Reading	USCS	Soil Description	Sample Method	Stratum
0:		OL-0877-07	0	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, fine sand seam with wood fragments from 8-10 inches, petroleum-like odor.	Vibracore	
¥		OL-0877-08	0.2	ML	Wet, very soft, black to brown, SILT, trace fine sand, trace clay, some pin-sized NAPL globules in top two inches, trace organics.	Vibracore	Silt
		OL-0877-10	0.4	ML	Wet, very soft, black and light brown, SILT, trace clay, trace organics, petroleum-like odor, low plasticity, trace shells, slight petroleum-like odor.	Vibracore	
Ī	ľ	OL-0877-11	0	ML	Wet, very soft, dark gray to light brown, SILT, trace fine sand, trace clay, trace shells, slight sulfur odor (MARL).	Vibracore	
		OL-0877-12	0.8	ML	Wet, very soft, light brown, SILT, trace fine sand, trace shells, slight sulfur odor (MARL).	Vibracore	Marl
+		OL-0877-13	0.9	ML	Wet, very soft, light brown, SILT, trace fine sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60246

Date: 08/11/2009

Weather: Mid 80s. Wind 10-15 NW. Mix Sun/Clouds.

Northing: 1118668.02

Easting: 928068.98

Mud Line: 359.5 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARAH CHMURA

Attempts: 2

Depth Units: Ft

Water Elev: 364.3 Ft

Surface Water Depth: 4.8 Ft	Penetration Depth: 12	Core Recovery Depth: 6
-----------------------------	-----------------------	------------------------

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	Reading	Code	Soil Description	Method	Stratum
0		OL-0880-14	0	SP	Wet, medium dense, black, fine SAND, trace silt, trace shells, petroleum-like odor. Bottom 2 inches is gray, soft, SILT, little fine sand, trace shells (MARL).	Vibracore	
¥		OL-0880-15	0	ML	Wet, very soft, gray, SILT, trace fine sand, trace organics, trace shells, sulfur odor (MARL).	Vibracore	
+		OL-0880-16	0	ML	Wet, very soft, gray, SILT, trace fine sand, little shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-0880-17	0	ML	Wet, very soft, gray, SILT, trace fine sand, little shells, trace organics, sulfur odor (MARL).	Vibracore	Marl
-		OL-0880-18	0	ML	Wet, very soft, gray, SILT, trace fine sand, trace clay, trace shells, trace organics, low plasticity, sulfur odor (MARL).	Vibracore	
5		OL-0880-19	0	ML	Wet, very soft, gray, SILT, trace fine sand, trace clay, trace shells, trace organics, low plasticity, sulfur odor (MARL). 2-inch x 1-inch fruit pit at 8 inches.	Vibracore	
6.0		OL-0880-19	0	ML	shells, trace organics, low plasticity, sulfur odor (MARL). 2-inch		Vibracore

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60247

Date: 08/05/2009

Weather: High 80s, sun&clouds, Winds NW 10-15mph

Northing: 1119301.60

Easting: 928540.08 Mud Line: 360.6 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Water Elev: 363.3 Ft

Attempts: 1 Depth Units: Ft

Surface Water Depth: 2.7 Ft

Penetration Depth: 10

Core Recovery Depth: 5.9

Depth	20	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0871-01	0	ML	0-3 inches is wet, very loose, black, fine SAND, trace silt, petroleum-like odor (SP); Rest of core is wet, very soft, light brown, SILT, trace fine sand (ML).	Vibracore	Fine Sand
		OL-0871-02	0	sw	Wet, very loose, dark gray, fine to medium SAND, petroleum-like odor.	Vibracore	Fine-Medium Sar
+		OL-0871-03	0	ML	Wet, very soft, green-gray, SILT, trace fine sand, trace shells, trace organics (MARL).	Vibracore	
		OL-0871-05	0	ML	Wet, very soft, green-gray, SILT, trace fine sand, trace shells, trace organics (MARL).	Vibracore	
_		OL-0871-06	0	ML	Wet, very soft, green-gray, SILT, trace fine sand, trace shells, trace organics (MARL).	Vibracore	Marl
5 —		OL-0871-07	0	ML	Wet, very soft, green-gray, SILT, trace fine sand, trace shells, trace organics (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60248

Date: 08/05/2009

Weather: High 80s, sun&clouds, Winds NW 10-15mph

Water Elev: 363.3 Ft

Attempts: 2

Vibracore

Vibracore

Depth Units: Ft

Northing: 1119294.65

Easting: 928318.39

Surface Water Depth: 2.9 Ft

OL-0871-12

OL-0871-13

0

0

 ML

ML

Mud Line: 360.4 Ft

Driller: QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 10

Core Recovery Depth: 6.7

Depth	Recov	Sample	PID	USCS	Soil Description	Sample	Stratum
Ft 0	<u> </u>	ID OL-0871-08	(ppm)	Code	0-8 inches is wet, loose, dark gray, fine to medium SAND, trace organics, petroleum-like odor (SW); Rest of core is wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor (ML).	Method	Fine-Medium Sand
					Wet, very loose, dark gray, fine to medium SAND, little organics,		Silt
		OL-0871-09	0	sw	trace shells, petroleum-like odor (MARL).	Vibracore	
»÷		OL-0871-10	0	sw	0-9 inches is wet, very loose, dark gray, fine to medium SAND, trace shells, little organics, slight petroleum-like odor (MARL) (SW); Rest of core is wet, very loose, green-gray, fine SAND, trace shells (MARL) (SP).	Vibracore	
Ī	Y.	OL-0871-11	0	SP	0-10 inches is wet, very loose, green-gray, fine SAND, trace organics, trace shells (MARL) (SP); Rest of core is wet, very soft, light brown, SiLT, trace organics, trace shells (MARL) (ML).	Vibracore	Marl
-			-		Wet, very soft, light brown, SILT, trace fine sand, trace organics, trace shells, (MARL).		

Wet, very soft, light brown, SILT, trace fine sand, trace organics, trace shells (MARL).

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60249

Date: 08/04/2009

Weather: High 80s, sun&clouds, Winds NW 10-15mph

Northing: 1119270.65

Easting: 928017.80

Driller: QEA Logging Company: PARSONS Water Elev: 363.4 Ft

Mud Line: 355.9 Ft

Geologist: HMP

Attempts: 1
Depth Units: Ft

Surface Water Depth: 7.5 Ft

Penetration Depth: 10

Core Recovery Depth: 7.9

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0861-07	0.2	ML	wet, very soft, black, SILT, little organics, petroleum-like odor.	Vibracore	
#		OL-0861-08	0.8	ML	wet, very soft, black, SILT, little organics, petroleum-like odor.	Vibracore	Silt
		OL-0861-09	0	ML/SW	0-5 in is wet, very soft, black, SILT, little organics, petroleum-like odor. Rest of core is wet, loose, dark grey, fine SAND, little silt, little shells, trace organics, slight petroleum-like odor, (MARL).	Vibracore ·	
		OL-0861-10	0	ML	Wet, very soft, SILT, little fine sand, trace organics, trace shells, slight sulfur odor, (MARL).	Vibracore	
		OL-0861-11	0	ML	Wet, very soft, SILT, little fine sand, trace organics, trace shells, slight sulfur odor, (MARL).	Vibracore	Marl
5 —		OL-0861-12	0	ML	Wet, very soft, brown, SILT, trace fine sand, some shells, trace organics, slight sulfur odor, (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60250

Date: 08/13/2009

Weather: Mid 80s. WInd 5-10 NNE. Mix Sun/Clouds. Hum d

Northing: 1119805.43

Easting: 928530.42

Mud Line: 359.6 Ft Surface Water Depth: 4.2 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 10

Attempts: 1

Depth Units: Ft

Water Elev: 363.9 Ft

Core Recovery Depth: 6.1

Depth	Recov	Sample	PID	USCS		Sample	.
Ft	R.	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0883-09	0	ML	Wet, very soft, black, SILT, trace organics, black fine sand seam at 6 to 7 inches, petroleum-like odor.	Vibracore	Silt
		OL-0883-10	ō	SP	0-5 inches is wet, very soft, black, SILT, little fine sand, petroleum-like odor (ML). Rest of core is wet very loose, black, fine SAND, trace shells, petroleum-like odor (SP).	Vibracore	
i 22-i		OL-0883-11	0	SP	0-3 inches is wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor (ML). Rest of core is wet very loose, dark gray, SAND, trace shells, petroleum-like odor, little organics at 9-10 inches (SP).	Vibracore	Sand
+			1		0-2 inches is wet, very soft, gray, SILT, some organics (ML). Rest of core is wet, loose, gray, fine SAND, trace shells (MARL).	+ +	Silt
	ľ	OL-0883-12	0	SP	Rest of core is wet, loose, gray, line SAND, trace shells (MARL).	Vibracore	
		OL-0883-13	0	ML	Wet, very soft, brown, SILT, trace fine sand, trace shells, trace organics.	Vibracore	Marl
		OL-0883-14	0	ML	Wet, very soft, brown, SILT, trace fine sand, trace shells, trace organics.	Vibracore	
S.1 —					1	1 1	
6.1 —	_						

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60251

Date: 08/13/2009

Weather: Mid 80s. WInd 5-10 NNE. Mix Sun/Clouds.

Water Elev: 363.9 Ft

Attempts: 1

Depth Units: Ft

Northing: 1119816.91

Easting: 928290.67 Mud Line: 357 Ft Surface Water Depth: 6.9 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 10

Core Recovery Depth: 8.4

Depth	S	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0884-09	0	ML	Wet, very soft, black, SILT, trace fine sand, trace clay, trace organics, petroleum-like odor.	Vibracore	Silt
÷		OL-0884-10	0	ML	0-7 inches is wet, very soft, black, SILT, trace fine sand, trace clay, trace organics, petroleum-like odor. Rest of core is wet, very loose, dark gray, fine to medium SAND, trace shells, petroleum-like odor (MARL) (SW).	Vibracore	
-		OL-0884-11	0	SW	Wet, very loose, dark gray, fine to medium SAND, trace silt, trace shells, trace organics, petroleum-like odor (MARL).	Vibracore	
	ľ	OL-0884-12	0	SP	0-7 inches is wet, very loose, dark gray and black, fine SAND, trace organics, trace shells, petroleum-like odor (MARL) (SP). Rest of core is wet, very soft, brown and black, SILT, trace shells, petroleum-like odor (MARL) (ML).	Vibracore	Marl
		OL-0884-13	0	ML	Wet,very soft, black and gray, SILT, trace fine sand, trace shells, little organics, organic odor (MARL).	Vibracore	
5 —		OL-0884-14	0	ML	Wet, very soft, brown and light brown, SILT, trace fine sand, trace shells, trace organics (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60252

Date: 08/13/2009

Weather: Mid 80s. WInd 5-10 NNE. Mix Sun/Clouds.

Northing: 1119831.97

Easting: 928154.05 Mud Line: 355.6 Ft

Surface Water Depth: 8.2 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 10

Water Elev: 363.9 Ft

Attempts: 1 Depth Units: Ft

Core Recovery Depth: 7.7

Depth	Recov	Sample ID	PID	USCS	Soil Description	Sample Method	Stratum
Ft 0		OL-0884-02	(ppm)	ML	Wet, very soft, black, SILT, trace clay, trace organics, petroleum-like odor.	Vibracore	
#		OL-0884-03	0	ML	Wet, very soft, dark gray to black, SILT, trace fine sand, trace clay, petroleum-like odor.	Vibracore	Silt
+		OL-0884-04	0	SP	0-2 inches is wet, very soft, black, SILT, petroleum-like odor (ML). 2-10 inches is wet, very loose, dark gray, fine SAND, trace shells, trace organics, petroleum-like odor (SP). Bottom 2 inches is wet, very soft, black, SILT, trace fine sand, petroleum-like odor (ML).	Vibracore	Sand
	Y	OL-088 4 -05	0	ML	0-10 inches is wet, very soft, dark-gray and black SILT, trace clay, trace organics (ML). Rest of core is wet, very loose, gray, fine to medium SAND, trace shells (MARL).	Vibracore	Silt
_		OL-0884-07	0	ML-CL	Wet, very soft, brown and black laminated, SILT and Clay, trace fine sand (ML/CL).	Vibracore	Marl
5		OL-0884-08	0	ML-CL	Wet, very soft, brown and black laminated, SILT and Clay, trace fine sand, trace shells, trace organics. (ML/CL).	Vibracore	Silt and Clay

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60253

Date: 08/12/2009

Weather: Low 80s. Wind 5-10 NNW. Sun/Cloud/Rain.

Water Elev: 364.3 Ft

Attempts: 1

Depth Units: Ft

Northing: 1120424.41

Easting: 928499.87

Mud Line: 359.2 Ft Surface Water Depth: 5.1 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 12

Core Recovery Depth: 8.4

Depth	50	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0882-01	0	SM	Wet, very loose, light brown, fine to medium SAND, some silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-0882-02	0	SM	Wet, very loose, light brown, fine to medium SAND, some silt, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0882-04	0	ML	Wet, very soft, light brown, SILT, little fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0882-05	0	ML	Wet, very soft, light brown and brown laminated, SILT, little fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
770		OL-0882-06	0	ML	Wet, very soft light brown and brown laminated, SILT, little fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	Marl
+		OL-0882-07	0	ML	Wet, very soft, light brown and brown laminated, SILT, little fine to medium sand, trace shells, sulfur odor, trace organics (MARL).	Vibracore	
_		OL-0882-08	0	ML	Wet, very soft, light brown and brown laminated, SILT, trace fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0882-09	0	ML	Wet, very soft, light brown and brown laminated, SILT, little fine to medium sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60260

Date: 08/13/2009

Weather: Mid 80s. Wind 5-10 NNE. Mix Sun/Clouds.

Northing: 1120606.82

Easting: 928222.55

Surface Water Depth: 7.5 Ft

Mud Line: 356.4 Ft

Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Penetration Depth: 10

Core Recovery Depth: 5.7

	Depth	Units:	Ft
--	-------	--------	----

Water Elev: 363.9 Ft

Attempts: 1

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	Reading	Code	Soil Description	Method	Stratum
0		OL-0883-16	0	SP	Wet, loose, dark gray, fine SAND, trace shells, trace organics, petroleum-like odor (MARL).	Vibracore	
¥		OL-0883-17	0	ML	Wet, very soft, black to dark gray, SILT, little fine sand, trace shells, trace organics (MARL).	Vibracore	
1		OL-0883-18	0	sw	0-4 inches is wet, very soft, gray, SILT, trace organics, trace shells (MARL). Rest of core is wet, very loose, light brown, fine to medium SAND, trace silt, trace shells, trace organics (MARL).	Vibracore	
	ľ	OL-0883-19	0	ML	Wet, very soft, brown and light brown, SILT, trace fine sand, trace shells (MARL).	Vibracore	Marl
+		OL-0883-20	0	ML	Wet, very soft, brown and light brown, SILT, trace fine sand, trace shells (MARL).	Vibracore	
5 —		OL-0884-01	0	ML	Wet, very soft, brown and light brown, SILT, trace fine sand, trace shells (MARL).	Vibracore	
6.0							

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-60261

Date: 08/12/2009

Weather: Low 80s. Wind 5-10 NNW. Sun/Clouds/Rain

Northing: 1120847.380000 Easting: 928037.180000

0 Driller: Anchor QEA

Water Elev: 364.3 Ft

Mud Line: 355.9 Ft

Logging Company: PARSONS Geologist: SARA CHMURA Attempts: 1
Depth Units: Ft

Surface Water Depth: 8.4 Ft

Penetration Depth: 12

Core Recovery Depth: 8.3

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0880-20	0	SP	Wet, very loose, dark gray, fine SAND, trace silt, trace shells, trace organics, slight petroleum-like odor, trace oncolites at top of core.	Vibracore	
	ĺ	OL-0881-01	0	SM	Wet, very loose, gray, fine SAND, little silt, trace shells, sulfur odor (MARL).	Vibracore	
4		OL-0881-02	0	SM	Wet, very loose, gray, fine SAND, trace to little silt, trace shells, trace organics (MARL).	Vibracore	
		OL-0881-03	0	SM	Wet, very loose, gray, fine SAND, little silt, trace shells, Silt and Clay seam from 2 inches to 5 inches (MARL).	Vibracore	Marl
		OL-0881-04	0	SM	Wet, very loose, gray, fine SAND, little silt, trace shells, black. Silt seam at 2-3 inches, 4-4.5 inches, 6.5-8.5 inches and 10.5-12 inches, (MARL).	Vibracore	
5 —		OL-0881-05	0	ML	Wet, very soft, dark-gray to black, SILT, trace fine sand, trace shells, slight sulfur odor (MARL).	Vibracore	

Page 1 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70130

Start/End Date: 06/24/2009 - 06/26/2009

Weather: Sunny, mid to high 80s, winds 10-20mph N-NW

Northing: 1116316.89

Drilling Company: Atlantic Testing

Total Depth: 73.0 Ft

Easting: 926926.46

Driller: Mark Childs

Water Elevation: 363.85

Mud Line: 361.35 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: HMP/SBD Rig Type: CME75

Depth	00	Sample	Blow	N	PID	USCS		Sample	
Ft	Recov	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratun
0	1		WR-WR-WR	0	5.2	SM	Wet, very loose, dark gray-brown, fine SAND, some silt, little shells pieces, trace organics, hydrocarbon odor, visible sheen.	2SS-140H	
			WR-WR-WR-WH	0	11.3	SM/ML	Wet, very loose, gray, fine SAND and Silt, some shells, trace organics, sulfur odor.	2SS-140H	-
5			WR-WR-WH-WH	0	13.1	SM	Wet, very loose, gray, fine SAND, some silt, some shells, trace organics, sulfur odor.	2SS-140H	-
-			WH-WH-WH-WH	0	3,4	SM/ML	Wet, very loose, gray, fine SAND and Silt, some shells, trace organics, sulfur odor.	2SS-140H	-
			WH-WH-WH	0	2.1	SM/ML	Wet, very loose, gray, fine SAND and Silt, some shells, trace organics, sulfur odor.	2SS-140H	-
10 +							Shelby Tube.	Shelby	- Marl
†			WR-WR-WR	0	6.8	ML	Wet, very soft, gray, SILT, some fine sand, some shells, sulfur odor.	2SS-140H	-
15			WR-WR-WR	0	7.2	ML	Wet, very soft, gray, SILT, some fine sand, some shells, trace organics, laminations throughout, sulfur odor.	2SS-140H	-
†			WR-WR-WR	0			No Recovery.	2SS-140H	-
20	V						Shelby Tube.	Shelby	•

Page 2 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70130

Start/End Date: 06/24/2009 - 06/26/2009

Weather: Sunny, mid to high 80s, winds 10-20mph N-NW

Northing: 1116316.89

Easting: 926926.46

Mud Line: 361.35 Ft

Surface Water Depth: 2.5 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: HMP/SBD Rig Type: CME75

Total Depth: 73.0 Ft

Water Elevation: 363.85

Depth	Recov	Sample	Blow	N	PID	USCS	0.15	Sample	
Ft	N.	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratur
20			WR-WR-WR	0	4.1	ML	Wet, very soft, gray, SILT, little fine sand, little shells, trace organics, laminations throughout, sulfur odor.	2SS-140H	
Ī			WR-WR-WH-WH	0	2.4	ML	Wet, very soft, gray, SILT, trace fine sand, little shells, trace organics, laminations throughout, sulfur odor.	2SS-140H	-
25 +			WR-WR-WR-WR	0	0	ML	Wet, very soft, greenish gray-brown, SILT, trace fine sand, trace shells, thin laminations, sulfur odor.	2SS-140H	-
+			WH-WH-WH	0	0	ML	Wet, very soft, greenish gray-brown, SILT, trace fine sand, trace shells, thin laminations, sewage-like odor.	2SS-140H	-
			WR-WR-WR-WH	0	0	ML	Wet, very soft, greenish gray-brown, SILT, trace fine sand, trace shells, thin laminations, sewage-like odor.	2SS-140H	-
30 +			WH-WH-WH	0	0	ML	Wet, very soft, greenish gray-brown, SILT, trace fine sand, trace shells, thin laminations, sewage-like odor.	2SS-140H	- Marl
†			WH-WH-WH	0	0	ML	Wet, very soft, greenish gray-brown, SILT, trace clay, trace fine sand, trace shells, thin laminations, sewage-like odor.	2SS-140H	-
35 +			WR-WR-WH	0	0	ML	Wet, very soft, greenish gray-brown, SILT, trace clay, trace fine sand, trace shells, thin laminations, sewage-like odor.	2SS-140H	-
†			WH-WH-WH	0	0.2	ML	Wet, very soft, greenish gray-brown, SILT, trace clay, trace fine sand, trace shells, thin laminations, sewage-like odor.	2SS-140H	-
			WH-WH-WH	0	0	ML	Wet, very soft, brown, SILT, trace shells, sewage-like odor.	2SS-140H	

Page 3 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70130

Start/End Date: 06/24/2009 - 06/26/2009

Weather: Sunny, mid to high 80s, winds 10-20mph N-NW

Northing: 1116316.89

Drilling Company: Atlantic Testing

Total Depth: 73.0 Ft

Easting: 926926.46

Driller: Mark Childs

Water Elevation: 363.85

Mud Line: 361.35 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: HMP/SBD Rig Type: CME75

Depth	8	Sample	Blow	N	PID	USCS		Sample	
Ft	Recov	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
40			WH-WH-WH	0	0	ML	Wet, very soft, brown, SILT, trace shells, sewage-like odor.	2SS-140H	
Ī			WR-WH-WH	0	0	ML	Wet, very soft, brown, SILT, trace shells, sewage-like odor.	2SS-140H	-
15 +			WR-WR-WR	0	0	ML	Wet, very soft, dark brown, SILT, trace clay, trace shells.	2SS-140H	_
-	П		WH-WH-WH	0	0	ML	Wet, very soft, dark brown, SILT, trace clay, trace shells.	2SS-140H	Mar
			WH-WH-WH	0	0	ML	Wet, very soft, dark brown, SILT, trace clay, trace shells.	2SS-140H	-
50 +			WH-WH-WH-WH	0	0	ML	Wet, very soft, dark gray and greenish gray, thinly bedded SILT, trace clay, trace shells, sewage-like odor.	2SS-140H	-
†			WH-WH-WH	0	0	ML	Wet, very soft, dark gray and greenish gray, thinly bedded SILT, trace clay, trace shells, sewage-like odor.	2SS-140H	-
55 +			WR-WR-WR	0	0	ML	Wet, very soft, dark gray and greenish gray, thinly bedded SILT, trace clay, sewage-like odor.	2SS-140H	
†			WR-WR-WR	0	0	ML	Wet, very soft, dark gray and greenish gray, thinly bedded SILT, trace clay, sewage-like odor.	2SS-140H	Silt
			WR-WR-WR	0	0	ML	Wet, very soft, dark gray and greenish gray, thinly bedded SILT, trace clay, sewage-like odor.	2SS-140H	-

Page 4 of 4 **BORING LOG**

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70130

Start/End Date: 06/24/2009 - 06/26/2009

Weather: Sunny, mid to high 80s, winds 10-20mph N-NW

Northing: 1116316.89

Easting: 926926.46

Mud Line: 361.35 Ft

Surface Water Depth: 2.5 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: HMP/SBD Rig Type: CME75

Total Depth: 73.0 Ft

Water Elevation: 363.85

Depth	Recov	Sample	Blow	N	PID	USCS	0.115	Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratun
60	1		WR-WR-WR	0	0	ML	Wet, very soft, dark gray and greenish gray, thinly bedded SILT, trace clay, sewage-like odor.	2SS-140H	
			WR-WR-WR	0	0	ML	Wet, very soft, dark gray and greenish gray, thinly bedded SILT, trace clay, sewage-like odor.	2SS-140H	
7				-			Shelby Tube.		1
65 —								Shelby	
1			WR-WR-WR	0	0	ML	Wet, very soft, dark gray and greenish gray, laminated SILT, little odor.	2SS-140H	Silt
+							Drill down from 68 to 69 ft.		-
				1			Shelby Tube.		-
70								Shelby	
		-	WR-WR-WR	0	0	ML	Wet, very soft, dark gray and lighter gray, laminated SILT, laminations ~1/16 -1/8".	2SS-140H	-
73.0				Il fields indi		ngs were no	of taken		

Page 1 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70131

Start/End Date: 06/30/2009 - 07/01/2009

Weather: Low 70s, winds 10-15mph W-SW, cloudy

Northing: 1116516.92

Easting: 927043.89

Mud Line: 361.35 Ft

Surface Water Depth: 2.5 Ft

Driller: Mark Childs

Borehole Logging Company: PARSONS

Drilling Company: Atlantic Testing

Borehole Geologist: SBD/TB

Total Depth: 70.0 Ft Water Elevation: 363.52

Depth Units: Ft

Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
0			WH-WH-WH-WH	0	0	sw	Wet, very loose, tan-gray, fine and medium SAND, organic odor.	2SS-140H	
		1	WH-WH-WH-WH	0	0.1	sw	wet, very loose, tan-gray, fine and medium SAND, organic odor.	2SS-140H	- Sand
-				-			Shelby Tube.		
5 +				Ш				Shelby	
+			WH-WH-WH	0	0.1	ML-SM	Wet, very soft, greenish tan, SILT and fine Sand, trace shells, sulfur odor.	2SS-140H	
			WH-WH-WH-WH	0	0.1	ML-SM	Wet, very soft, greenish tan, SILT and fine Sand, trace shells, sulfur odor.	2SS-140H	_
10 +		-	WH-WH-WH	0	0	ML-SM	Wet, very soft, greenish tan, SILT and fine Sand, trace small shells, sulfur odor.	2SS-140H	-
+ \		-	WH-WH-WH	0	0	ML-SM	Wet, very soft, greenish tan, SILT and fine Sand, trace small shells, sulfur odor.	2SS-140H	- Mari
15 +		-					Shelby Tube.	Shelby	-
		-	WR-WR-WR	0	0	ML-SM	Wet, very soft, tan, SILT and fine SAND, trace shells, sulfur odor.	2SS-140H	
+					-		Drill down from 18 to 19 ft.		1
+							Shelby Tube.	Shelby	-

Page 2 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70131

Start/End Date: 06/30/2009 - 07/01/2009

Weather: Low 70s, winds 10-15mph W-SW, cloudy

Northing: 1116516.92

Drilling Company: Atlantic Testing

Total Depth: 70.0 Ft

Easting: 927043.89

Driller: Mark Childs

Water Elevation: 363.52

Mud Line: 361.35 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: SBD/TB Rig Type: CME75

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	1_
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
20							Shelby Tube.	Shelby	
			WR-WR-WR	0	0	ML-SM	Wet, very soft, greenish tan, SILT and fine Sand, trace shells, sulfur odor.	2SS-140H	
			WR-WR-WR	0	0	ML	Wet, very soft, greenish tan, SILT, little fine sand in thin laminations, trace shells, sulfur odor.	2SS-140H	-
25 +			WR-WR-WR	0	0	ML	Wet, very soft, greenish tan, SILT, little fine sand in thin laminations, trace shells, sulfur odor.	2SS-140H	<u>-</u>
1			WR-WR-WR	0	0	ML	Wet, very soft, greenish tan, SILT, little fine sand in thin laminations, trace shells, sulfur odor.	2SS-140H	_
0 +			WR-WR-WR	0	0	ML	Wet, very soft, greenish gray, SILT, little fine sand, trace shells, sulfur odor.	2SS-140H	Mai
+			WH-WH-WH	0	0	ML	Wet, very soft, greenish gray, SILT, little fine sand, trace shells, sulfur odor.	2SS-140H	
+			WH-WH-WH	0	0	ML	Wet, very soft, brown, SILT, trace clay, trace shells, less odor.	2SS-140H	<u>-</u>
5 +			WH-WH-WH-WH	0	0	ML	Wet, very soft, brown, SILT, trace clay, trace shells, slight sulfur odor.	2SS-140H	_
<u> </u>			WR-WR-WR	0	0	ML	Wet, very soft, brown, SILT, trace clay, trace shells, slight sulfur odor.	2SS-140H	_
+			WH-WH-WH	0	0	ML	Wet, very soft, dark gray, SILT, trace clay, trace shells.	2SS-140H	-

Page 3 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70131

Start/End Date: 06/30/2009 - 07/01/2009

Weather: Low 70s, winds 10-15mph W-SW, cloudy

Northing: 1116516.92

Drilling Company: Atlantic Testing

Total Depth: 70.0 Ft

Easting: 927043.89

Driller: Mark Childs

Water Elevation: 363.52

Mud Line: 361.35 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft Borehole (

Borehole Geologist: SBD/TB Rig Type: CME75

Depth	Sample ID	Blow	N	PID	USCS		Sample	
Ft o	Z ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
40		WH-WH-WH	0	0	ML	Wet, very soft, dark gray, SILT, trace clay, trace shells.	2SS-140H	
		WH-WH-WH-WH	0	0	ML	Wet, very soft, dark gray, SILT, trace clay, trace shell fragments.	2SS-140H	•
Ī		WH-WH-WH-WH	0	0	ML	Wet, very soft, dark gray, SILT, trace clay, trace shell fragments.	2SS-140H	
45 +		WH-WH-WH	0	0	ML	Wet, very soft, dark gray, SILT, trace clay, trace shell fragments.	2SS-140H	Mari
		WH-WH-WH-WH	0	0	ML	Wet, very soft, dark gray, SILT, trace clay, trace shell fragments.	2SS-140H	
50 +		WH-WH-WH	0	0	ML	Wet, very soft, dark gray and lighter gray, SILT, little clay, trace shells in top of sample.	2SS-140H	
+		WR-WR-WR-WR	0	0	ML	Wet, very soft, dark and light gray, SILT, little clay, laminated and alternating colors, sewage-like odor.	2SS-140H	
†		WR-WR-WR	0	0	ML	Wet, very soft, dark and light gray, SILT, little clay, laminated and alternating colors, sewage-like odor.	2SS-140H	
55 +		WR-WR-WR-WR	0	0	ML	Wet, very soft, dark and light gray, SILT, little clay, laminated and alternating colors, sewage-like odor, rapid dilantacy and non-plastic.	2SS-140H	Silt
		WR-WR-WR-WR	0	0	ML	Wet, very soft, dark and light gray, SILT, little clay, laminated and alternating colors, sewage-like odor, rapid dilantacy and non-plastic.	2SS-140H	
						Shelby Tube.	Shelby	-

BORING LOG Page 4 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70131

Start/End Date: 06/30/2009 - 07/01/2009

Weather: Low 70s, winds 10-15mph W-SW, cloudy

Northing: 1116516.92 Easting: 927043.89

Drilling Company: Atlantic Testing Driller: Mark Childs

Total Depth: 70.0 Ft

Mud Line: 361.35 Ft

Borehole Logging Company: PARSONS

Water Elevation: 363.52

Surface Water Depth: 2.5 Ft

Borehole Geologist: SBD/TB Rig Type: CME75 Depth Units: Ft

Recov	Sample ID	Blow Count	N Value	PID (ppm)	USCS Code	Soil Description	Sample Method	Stratun
						Shelby Tube.	Shelby	
		WR-WR-WR	0	0	ML	Wet, very soft, dark gray to gray, SILT, some clay, laminated and alternating colors, sewage-like odor, rapid dilantacy and non-plastic.	2SS-140H	
						Shelby Tube.	Shelby	Silt
	ď					Shelby Tube.	Shelby	_
		WR-WR-WR	0	0	ML	Wet, very soft, gray to dark gray, SILT, some clay, laminated and alternating colors, sewage-like odor.	2SS-140H	
	Recov	Sample ID	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WR-WR-WR 0	WR-WR-WR 0 0	WR-WR-WR 0 0 ML	Shelby Tube. Wet, very soft, dark gray to gray, SILT, some clay, laminated and alternating colors, sewage-like odor, rapid dilantacy and non-plastic. Shelby Tube. Shelby Tube. Wet, very soft, gray to dark gray, SILT, some clay, laminated and alternating colors, sewage-like odor.	Shelby Tube. Wet, very soft, dark gray to gray, SILT, some clay, laminated and alternating colors, sewage-like odor, rapid dilantacy and non-plastic. Shelby Tube. Shelby Tube. Shelby Tube. Shelby Tube. Shelby Tube.

Note: Null fields indicate readings were not taken.

Page 1 of 3



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70132

Start/End Date: 07/02/2009 - 07/07/2009

Weather: Low 70s, winds 5-10mph N-NW, T-storms

Northing: 1116790.24 Easting: 927164.66 **Drilling Company: Atlantic Testing**

Total Depth: 71.0 Ft

Mud Line: 361.09 Ft

Driller: Mark Childs

Water Elevation: 363.59

IVIUU LINE. 301.0811

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: TB/SBD Rig Type: Barge mtd.CME75

Depth So	Sample	Blow	N	PID	USCS	0.115	Sample	
	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
0		WH-WH-WH	0			No Recovery.	2SS-140H	
		WH-WH-WH	0			No Recovery.	2SS-140H	-
5 +		WH-WH-WH	0	0.2	SM	Wet, very loose, gray-brown, fine SAND, some silt, trace medium to coarse sand, sulfur odor.	2SS-140H	Sand
1		WH-WH-WH	0	0.1	SM	Wet, very loose, gray-brown, fine SAND, some silt, trace medium to coarse sand, trace shell fragments, trace organics, sulfur odor.	2SS-140H	
+		WH-WH-WH	0	0.1	SM	Wet, very loose, gray-brown, fine SAND, some silt, trace medium sand, trace shell fragments, sulfur odor.	2SS-140H	<u>-</u>
10 +		WH-WH-WH	0	0.1	ML	Wet, very soft, light brown/gray-brown, SILT, little fine sand, little shell fragments, sulfur odor.	2SS-140H	-
†		WH-WH-WH	0	1.7	ML	Wet, very soft, light brown/gray-brown, SILT, little fine sand, little shell fragments, sulfur odor.	2SS-140H	-
15						Shelby Tube.	Shelby	-
						No Recovery.	2SS-140H	- Mari
						No Recovery.	2SS-140H	
20 + /						Shelby Tube.	Shelby	
		WR-WR-WR-WH	0	0	ML	Wet, very soft, greenish gray, SILT, trace fine sand, trace small shells, thin laminations, sewage-like odor.	2SS-140H	-
25 +		WR-WR-WH-WH	0	0	ML	Wet, very soft, greenish gray, SILT, trace fine sand, trace small shells, thin laminations, sewage-like odor.	2SS-140H	-

Page 2 of 3



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70132

Start/End Date: 07/02/2009 - 07/07/2009

Weather: Low 70s, winds 5-10mph N-NW, T-storms

Northing: 1116790.24

Easting: 927164.66

Mud Line: 361.09 Ft

Surface Water Depth: 2.5 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Total Depth: 71.0 Ft Water Elevation: 363.59

Depth Units: Ft

Borehole Geologist: TB/SBD Rig Type: Barge mtd.CME75

Depth S	Sample	Blow	N	PID	USCS	0.115	Sample	ļ., ,
	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
26		WR-WR-WR	0	0.2	ML	Wet, very soft, greenish gray, SILT, trace fine sand, trace small shells, thin laminations, sewage-like odor.	2SS-140H	
1		WR-WH-WH-WH	0	0.6	ML	Wet, very soft, greenish gray, SILT, trace fine sand, trace small shells, thin laminations, sewage-like odor.	2SS-140H	
30 +		WR-WR-WH-WH	0	0.4	ML	Wet, very soft, greenish brown, SILT, trace shells.	2SS-140H	
-		WH-WH-WH-WH	0	0.3	ML	Wet, very soft, greenish brown, SILT, trace shells, trace wood fragments.	2SS-140H	
35 +		WH-WH-WH	0	0.3	ML	Wet, very soft, greenish brown, SILT, trace shells, trace wood fragments.	2SS-140H	
		WR-WH-WH	0	1.4	ML	Wet, very soft, brown, SILT, trace shells, sewage-like odor.	2SS-140H	
†		WH-WH-WH	0	0	ML	Wet, very soft, brown and dark gray, SILT, trace clay, trace shells.	2SS-140H	Mar
40 +		WH-WH-WH	0	0	ML	Wet, very soft, brown and dark gray, SILT, trace clay, trace shells.	2SS-140H	
+		WH-WH-WH	0	0.1	ML	Wet, very soft, brown and dark gray, SILT, trace clay, trace shells.	2SS-140H	-
45 +		WR-WH-WH	0	0	ML	Wet, very soft, brown and dark gray, SILT, trace clay, trace shells.	2SS-140H	
+ +		WR-WR-WR	0	0	ML	Wet, very soft, brown and dark gray, SILT, trace clay, trace shells.	2SS-140H	
+		WR-WR-WH-WH	0	0	ML	Wet, very soft, brown and dark gray, SILT, trace clay, trace shells.	2SS-140H	
50 +		WR-WR-WH-WH	0	0	ML	Wet, very soft, dark gray and brown, SILT, trace clay, trace shells.	2SS-140H	

Page 3 of 3

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70132

Start/End Date: 07/02/2009 - 07/07/2009

Weather: Low 70s, winds 5-10mph N-NW, T-storms

Northing: 1116790.24 Easting: 927164.66 **Drilling Company: Atlantic Testing**

Total Depth: 71.0 Ft

Mud Line: 361.09 Ft

Driller: Mark Childs

Water Elevation: 363.59

Mud Line. 301.08 Ft

Borehole Logging Company: PARSONS

Depth Units: Ft

Surface Water Depth: 2.5 Ft

Borehole Geologist: TB/SBD Rig Type: Barge mtd.CME75

Sample	Blow	N	PID	USCS		Sample	
ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratum
	WH-WH-WH-WH	0	o	ML	Wet, very soft, brown and tan, laminated SILT, trace clay.	2SS-140H	
	WH-WH-WH	0	o	ML	Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter).	2SS-140H	
	WR-WR-WR	0	0.1	ML	Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter).	2SS-140H	
	WR-WR-WR-WH	0	0.1	ML	Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter).	2SS-140H	
	WR-WR-WR-WR	0	0.3	ML	Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter).	2SS-140H	Silt and Clay
	h Ai				Shelby Tube.	Shelby	
	WR-WR-WR	0	0	ML	Wet, very soft, dark gray and lighter gray-tan, laminated SILT, trace clay.	2SS-140H	
					Drill down from 66 to 67 ft.		
					Shelby Tube.	Shelby	
	WR-WR-WR	0	0	ML	Wet, very soft, dark gray and light gray-tan, laminated SILT, trace clay.	2SS-140H	
	1	WH-WH-WH-WH WR-WR-WR-WR-WR WR-WR-WR-WR	WH-WH-WH 0 WH-WH-WH-WH 0 WR-WR-WR-WR 0 WR-WR-WR-WR 0	WH-WH-WH-WH 0 0 WH-WH-WH-WH 0 0 WR-WR-WR-WR 0 0.1 WR-WR-WR-WR 0 0.3	WH-WH-WH-WH 0 0 ML WH-WH-WH-WH 0 0 ML WR-WR-WR-WR 0 0.1 ML WR-WR-WR-WR 0 0.1 ML WR-WR-WR-WR 0 0.3 ML WR-WR-WR-WR 0 0 ML	WH-WH-WH-WH 0 0 ML Wet, very soft, brown and tan, laminated SILT, trace clay. Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and lighter gray-tan, laminated SILT, trace clay. Drill down from 66 to 67 ft. Shelby Tube. Wet, very soft, dark gray and light gray-tan, laminated SILT, trace clay.	Wet, very soft, brown and tan, laminated SILT, trace clay. Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Wet, very soft, dark gray and tan, laminated SILT, trace clay, trace organics (plant matter). Shelby Tube. Wet, very soft, dark gray and lighter gray-tan, laminated SILT, trace clay. Wet, very soft, dark gray and lighter gray-tan, laminated SILT, trace clay. Wet, very soft, dark gray and light gray-tan, laminated SILT, trace clay. Wet, very soft, dark gray and light gray-tan, laminated SILT, trace clay. Wet, very soft, dark gray and light gray-tan, laminated SILT, trace clay.

Note: Null fields indicate readings were not taken.

Page 1 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70133

Start/End Date: 07/07/2009 - 07/08/2009

Weather: High 60s, Winds W-NW 5-10mph, cloudy

Northing: 1117014.90

Easting: 927229.35

Mud Line: 360.50 Ft

Surface Water Depth: 3.0 Ft

Drilling Company: Atlantic Testing Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD

Rig Type: CME75

Total Depth: 74.0 Ft Water Elevation: 363.50

Depth Ft	Recov	Sample	Blow Count	N	PID (nam)	USCS	Soil Description	Sample Method	Stratu
0		ID	wн-wн-wн	Value 0	(ppm) 1.0	SM	Wet, very loose, gray and dark gray, fine SAND, some silt, little broken shells, petroleum odor.	2SS-140H	
			1-1-1-1	2	0.3	SM	0-9 inches: Wet, very loose, gray and dark gray, fine SAND, some silt, little broken shells, petroleum odor; 9-13 inches: Wet, very loose, greenish gray, fine SAND, some silt, trace shells.	2SS-140H	-
5 +			1-1-WH-WH	1			No Recovery.	2SS-140H	
	7		WH-WH-WH-WH	0			No Recovery.	2SS-140H	
			WR-WR-WR	0	0.1	ML	Wet, very soft, greenish tan, SILT, some fine sand, little shells, sulfur odor.	2SS-140H	
10 +		-	WR-WR-WR	0	0.2	ML	Wet, very soft, greenish tan, SILT, some fine sand, little shells, sulfur odor.	2SS-140H	- Mar
†		-	WR-WR-WR	0	0.2	ML	Wet, very soft, greenish tan, SILT, some fine sand, little shells, sulfur odor.	2SS-140H	
15 +		-					Shelby Tube.	Shelby	_
†			WR-WR-WR	0	0	ML	Wet, very soft, greenish tan, SILT, trace shells, trace organics (grass and leaf).	2SS-140H	
							Drill down from 18 to 19 ft. Shelby Tube.	Shelby	_

Page 2 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70133

Start/End Date: 07/07/2009 - 07/08/2009

Weather: High 60s, Winds W-NW 5-10mph, cloudy

Northing: 1117014.90

Easting: 927229.35

Mud Line: 360.50 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Total Depth: 74.0 Ft

Water Elevation: 363.50

Depth	Recov	Sample	Blow	N	PID	USCS	Soil Description	Sample Method	Stratu
Ft 20	Ľ	ID	Count	Value	(ppm)	Code	Shelby Tube.	Shelby	
Ī			WR-WR-WR	0	0	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, scattered thin laminations.	2SS-140H	
			WR-WR-WR	0	0	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, scattered thin laminations.	2SS-140H	
25			WR-WR-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, scattered thin laminations.	2SS-140H	-
		1	WH-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, scattered thin laminations.	2SS-140H	-
30 +			WH-WH-WH	0	0	ML	Wet, very soft, greenish tan, SILT, trace clay, trace shells, scattered thin laminations.	2SS-140H	Marl
†		-	WH-WH-WH	0	0	ML	Wet, very soft, greenish tan and brown, SILT, trace shells.	2SS-140H	-
†		-	WH-WH-WH	0	0	ML	Wet, very soft, greenish tan and brown, SILT, trace shells.	2SS-140H	-
35 +		-	WR-WR-WR	0	0	ML	Wet, very soft, greenish tan and brown, SILT, trace shells.	2SS-140H	-
		-	WH-WH-WH	0	0.2	ML	Wet, very soft, greenish tan and brown, SILT, trace clay, trace shells.	2SS-140H	_
+ 1			WH-WH-WH	0	0.1	ML	Wet, very soft, greenish tan and brown, SILT, trace clay, trace shells.	2SS-140H	-

Page 3 of 4



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70133

Start/End Date: 07/07/2009 - 07/08/2009

Weather: High 60s, Winds W-NW 5-10mph, cloudy

Northing: 1117014.90

Easting: 927229.35

Mud Line: 360.50 Ft

Surface Water Depth: 3.0 Ft

Drilling Company: Atlantic Testing

Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD

Rig Type: CME75

Total Depth: 74.0 Ft
Water Elevation: 363.50

Depth	Recov	Sample	Blow	N	PID	USCS	0.115	Sample	۱۵، ،
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratur
40			WH-WH-WH-WH	0	0.1	ML	Wet, very soft, greenish tan and brown, SILT, trace clay, trace shells.	2SS-140H	
			WH-WH-WH	0	0.1	ML	Wet, very soft, greenish tan and brown, SILT, trace clay, trace shells.	2SS-140H	-
			WH-WH-WH-WH	0	0.1	ML	Wet, very soft, greenish tan and brown, SILT, trace clay, trace shells, some dark gray streaking.	2SS-140H	
45 —	1		WR-WR-WR	0	0	ML	Wet, very soft, greenish tan and brown, SILT, trace clay, trace shells, some dark gray streaking.	2SS-140H	Marl
Ī			WR-WR-WH-WH	0	0.1	ML	Wet, very soft, greenish gray and dark gray mottled, SILT, little clay, trace shells.	2SS-140H	-
50			WR-WR-WR	0	0.1	ML	Wet, very soft, greenish gray and dark gray mottled, SILT, little clay, trace shells.	2SS-140H	-
†		-	WR-WR-WR	0	0.1	ML	Wet, very soft, greenish gray and dark gray mottled, SILT, some clay.	2SS-140H	
†			WR-WR-WH-WH	0	0	ML	Wet, very soft, laminated green-gray and dark gray, SILT, some clay, bioturbated.	2SS-140H	-
55 +		-	WR-WR-WH-WH	0	0	ML	Wet, very soft, laminated green-gray and dark gray, SILT, some clay, bioturbated.	2SS-140H	Silt and Cla
		-	WH-WH-WH	0	0	ML	Wet, very soft, laminated green-gray and dark gray, SILT, some clay, bioturbated.	2SS-140H	-
†			WR-WR-WR-WR	0	0	ML	Wet, very soft, laminated green-gray and dark gray, SILT, some clay, bioturbated.	2SS-140H	1

Page 4 of 4

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70133

Start/End Date: 07/07/2009 - 07/08/2009

Weather: High 60s, Winds W-NW 5-10mph, cloudy

Northing: 1117014.90

Easting: 927229.35

Mud Line: 360.50 Ft

Surface Water Depth: 3.0 Ft

Drilling Company: Atlantic Testing Driller: Mark Childs

Borehole Logging Company: PARSONS

Borehole Geologist: SBD

Total Depth: 74.0 Ft

Water Elevation: 363.50

Depth Units: Ft

Rig Type: CME75

Recov	ID	Count wr-wr-wr	Value 0	(ppm) 0	ML	Soil Description Wet, very soft, laminated green-gray and dark gray, SILT, some clay, bioturbated. Shelby Tube.	Method 2SS-140H	
		WR-WR-WR-WR	0	0	ML	SILT, some clay, bioturbated.		
		7 - 1				Shelby Tube.		1
							Shelby	
						Shelby Tube.	Shelby	
		WR-WR-WR	0	0	ML/CL	Wet, very soft, laminated greenish gray and dark gray, SILT and Clay, some bioturbation.	2SS-140H	
						Drill down from 67 to 68 ft.		Silt and Clay
						Shelby Tube, No Recovery.	Shelby	
						Shelby Tube.	Shelby	
		WR-WR-WR	0	0	ML/CL	Wet, very soft, dark gray and greenish gray, thinly laminated SILT and Clay.	2SS-140H	
							WR-WR-WR 0 0 ML/CL Drill down from 67 to 68 ft. Shelby Tube, No Recovery. Shelby Tube. Wet, very soft, dark gray and greenish gray, thinly laminated SILT and Clay.	WR-WR-WR-WR 0 0 ML/CL Drill down from 67 to 68 ft. Shelby Tube, No Recovery. Shelby Tube. Wet, very soft, dark gray and greenish gray, thinly laminated SILT and Clay.

Note: Null fields indicate readings were not taken.

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70139

Start/End Date: 08/27/2009 - 08/28/2009

Weather: Low 70s, mostly sunny, winds N-NW 5-10

Northing: 1117596.22

Easting: 926362.51

Mud Line: 345.83 Ft

Surface Water Depth: 17.17 Ft

Driller: Mark Childs

Borehole Logging Company: Parsons

Drilling Company: Atlantic Testing

Borehole Geologist: S. Dillman Rig Type: CME 75 Barge Mtd

Total Depth: 28.0 Ft Water Elevation: 363.00

Depth Units: Ft

PID USCS Depth Sample Blow N Sample Soil Description Stratum Ft ID Count Value Code Method (ppm) Wet, soft, black, silt-like grains, black, discoloration, 0 0 0.4 SOLW 2SS-140H WR-WR-WR-WR Wet, soft, black, silt-like grains, black, discoloration, sheen on sample. WR-WR-WR-WR 0 3.1 SOLW 2SS-140H Wet, soft, black, silt-like grains, black, discoloration, sheen on sample, strong odor. 0 50.1 SOLW 2SS-140H WR-WR-WR-WR 5 Wet, soft, black, silt-like grains, black, discoloration, sheen on sample, strong odor. Thin leases of lighter gray, silt-sized grains and sand-sized chunks. 27 SOLW 0 WR-WR-WR-WR 2SS-140H Solvay Waste Wet, soft, silt-sized grains, dark gray and lighter 0 21.8 SOLW 2SS-140H WR-WR-WR-WR 10 Push Shelby Tube from 10 -12 feet. Shelby OL-1033-15 Wet, soft, black silt-sized grains, sheen, some lighter gray color in top material. 0 7.2 SOLW 2SS-140H WR-WR-WR-WR 14

BORING LOG Page 2 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-SB-70139

Start/End Date: 08/27/2009 - 08/28/2009

Weather: Low 70s, mostly sunny, winds N-NW 5-10

Total Depth: 28.0 Ft

Depth Units: Ft

Water Elevation: 363.00

Northing: 1117596.22

Easting: 926362.51 Drill

Mud Line: 345.83 Ft

Drilling Company: Atlantic Testing Driller: Mark Childs

Borehole Logging Company: Parsons

Deschale Contract & Dillege Dia Tomas C

Surface Water Depth: 17.17 Ft | Borehole Geologist: S. Dillman Rig Type: CME 75 Barge Mtd

Depth	Recov	Sample	Blow	N	PID	USCS		Sample	
Ft	Re	ID	Count	Value	(ppm)	Code	Soil Description	Method	Stratu
15 —							Drill and clean out to 15 feet. Push Shelby Tube.	Shelby	
-							Drill and clean out 17 -18 feet. Push Shelby Tube.		Solvay Wa
								Shelby	
20 +			WR-WR-WR	0	1.7	SOLW	Wet, soft, dark gray-black silt-like grains.	2SS-140H	
+			WR-WR-WR	0	0.5	ML	Wet, soft, dark gray-greenish gray SILT, trace shells in lower sample. Sand in shoe consisting of reworked shells.	2SS-140H	Silt
25 —			WR-WR-WR	0	1.6	ML	Wet, very soft, gray-green, SILT, some medium sand lenses approximately 1 inch thick, trace shells, slight sulfur odor.	2SS-140H	
†			WR-WR-WR	0	0.6	ML	Wet, soft, green-brown SILT, trace shells, little odor. (MARL).	2SS-140H	Marl

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-70126

Date: 07/28/2009

Weather: High 80s, WInds SW 10-20mph, sunny

Core Recovery Depth: 7.2

Northing: 1116655.21

Easting: 927626.56

Mud Line: 349.2 Ft

Surface Water Depth: 14 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: H SLETTEN

Penetration Depth: 9

Water Elev: 363.2 Ft

Attempts: 4

Depth	8	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0850-07	28.3	SP	Wet, dense, black, fine SAND, trace silt, little slag, trace glass in top 4 inches, petroleum-like odor.	Vibracore	
*		OL-0850-08	23.2	SP	Wet, medium dense to dense, black, fine SAND, trace silt, little fine to coarse sub-angular to sub-rounded gravel, little wood fragments, trace slag, petroleum-like odor.	Vibracore	Fine Sand
-		OL-0850-09	25.6	sw	0-10 inches: Wet, medium dense, black, fine to medium SAND, little silt, some shells, little fine sub-rounded gravel, little wood fragment, petroleum-like odor (SW); Rest of core is wet, medium dense, gray-brown, fine SAND, little silt, little shells, sulfur odor (MARL) (SP).	Vibracore	Fine-Medium San
		OL-0850-10	21.5	SM	Wet, medium dense, gray-brown, fine SAND and Silt, little medium sand in top 3 inches, little shells, sulfur odor (MARL).	Vibracore	
		OL-0850-11	24.1	SM	Wet, medium dense, gray-brown, fine SAND and Silt, little shells, sulfur odor (MARL).	Vibracore	Marl
5 —		OL-0850-13	56.8	SM	Wet, medium dense, gray-brown, fine SAND, some silt, little shells, sulfur odor (MARL).	Vibracore	

Page 1 of 2



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-70128

Date: 08/04/2009

Weather: High 80s, mix sun & clouds, winds SW 10-15

Northing: 1116298.57

Easting: 927176.35

Logging Company: PARSONS

Water Elev: 363.27 Ft Attempts: 3

Mud Line: 362.43 Ft

Geologist: HMP

Depth Units: Ft

Surface Water Depth: 0.83 Ft

Penetration Depth: 15

Driller: Atlantic Testing

Core Recovery Depth: 13.5

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0861-13	0	SM	Wet, loose, dark grey, fine SAND, some silt, little organics (wood pieces), petroleum-like odor.	Vibracore	
		OL-0861-14	0.2	sw	Wet, loose, dark grey, fine to medium SAND, trace silt, trace shells, petroleum-like odor.	Vibracore	Sand
		OL-0861-16	1.8	SW/ML	0-4 inches is wet, loose, dark gray, fine to medium SAND, trace silt, trace shells, petroleum-like odor. Rest of core is wet, very soft, light brown, SILT, some fine sand, little shells, trace organics, sulfur odor, (MARL).	Vibracore	
+		OL-0861-17	2.3	ML-SM	Wet, very soft, light brown, SILT, some fine sand, little shells, trace organics, sulfur odor, (MARL).	Vibracore	
		OL-0861-18	0.5	SM	Wet, very soft, light brown, fine SAND, some silt, little shells, trace organics, sulfur odor, (MARL).	Vibracore	Marl
		OL-0861-19	0.2	SM	Wet, very soft, light brown, fine SAND, some silt, little shells, trace organics, sulfur odor, (MARL).	Vibracore	
+		OL-0861-20	2.5	SM	Wet, very soft, light brown, fine SAND, some silt, little shells, trace organics, sulfur odor, (MARL).	Vibracore	

Page 2 of 2

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-70128

Date: 08/04/2009

Weather: High 80s, mix sun & clouds, winds SW 10-15

Water Elev: 363.27 Ft

Attempts: 3

Depth Units: Ft

Northing: 1116298.57

Easting: 927176.35

Mud Line: 362.43 Ft

Surface Water Depth: 0.83 Ft

Driller: Atlantic Testing

Penetration Depth: 15

Logging Company: PARSONS

Geologist: HMP

Core Recovery Depth: 13.5

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
7		OL-0862-01	2.6	SM	Wet, very soft, light brown, fine SAND, some silt, little shells, trace organics, sulfur odor, (MARL).	Vibracore	
		OL-0862-02	3.1	SM	Wet, very soft, light brown, fine SAND, some silt, little shells, trace organics, sulfur odor, (MARL).	Vibracore	
		OL-0862-03	4.2	SM	Wet, very soft, light brown, fine SAND, some silt, little shells, trace organics, sulfur odor, (MARL).	Vibracore	
10 +		OL-0862-04	3	ML	Wet, very soft, light brown, SILT, little fine sand, little shells, trace organics, sulfur odor, (MARL).	Vibracore	Marl
		OL-0862-05	0	ML	Wet, very soft, light brown, SILT, little fine sand, little shells, trace organics, sulfur odor, (MARL).	Vibracore	
		OL-0862-06	0	ML	Wet, very soft, light brown, SILT, little fine sand, little shells, trace organics, sulfur odor, (MARL).	Vibracore	
		OL-0862-07	0.2	ML	Wet, very soft, light brown, SILT, little fine sand, little shells, trace organics, sulfur odor, (MARL).	Vibracore	

Page 1 of 1

Honeywell

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-70134

Date: 08/10/2009

Weather: Low 80s. Cloudy. Chance T-Showers.

Northing: 1116551.99

Easting: 927024.11 Mud Line: 361 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG Water Elev: 363.9 Ft

Attempts: 1 Depth Units: Ft

Surface Water Depth: 2.8 Ft

Penetration Depth: 10

Core Recovery Depth: 6.8

Recov	Sample ID	PID (ppm)	USCS	Soil Description	Sample Method	Stratum
	OL-0876-01	0.2	SP	Wet, very loose, black, fine SAND, trace silt, trace organics, petroleum-like odor.	Vibracore	Fine Sand
	OL-0876-02	4.1	SP	0-2 inches is wet, very soft, black, SILT, trace organics, petroleum-like odor. Rest of core is wet, loose, green-gray, fine SAND, trace shells, slight petroeum-like odor (MARL).	Vibracore	
	OL-0876-03	3.1	ML	0-3 inches is wet, loose, green-gray, fine SAND, trace shells, petroleum-like odor (MARL) (SP). Rest of core is wet, very soft, light brown, SILT, little fine sand, trace shells, sulfur odor (MARL) (ML).	Vibracore	
	OL-0876-04	8.7	ML	Wet, very soft, light brown, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	Marl
-	OL-0876-05	4.2	sw	Wet, very loose, light brown, fine to medium SAND, little silt, trace shells, sulfur odor (MARL).	Vibracore	
	OL-0876-06	4.6	ML	Wet, very soft, light brown, SILT, little fine to medium SAND, trace shells, sulfur odor (MARL).	Vibracore	
	Recov	OL-0876-01 OL-0876-02 OL-0876-03 OL-0876-04	OL-0876-01 0.2 OL-0876-02 4.1 OL-0876-03 3.1 OL-0876-04 8.7	OL-0876-01	Wet, very loose, black, fine SAND, trace silt, trace organics, petroleum-like odor. OL-0876-01 O.2 SP	Wet, very soft, light brown, SiLT, little fine sand, trace Wet, very soft, light brown, fine to medium SAND, little Wet, very soft, light brown, SiLT, little fine to medium SAND, little Wet, very soft, light brown, SiLT, little fine to medium SAND, little Wet, very soft, light brown, SiLT, little fine to medium SAND, little Wet, very soft, light brown, SiLT, little fine to medium SAND, little Wet, very soft, light brown, SiLT, little fine to medium SAND, little Wet, very soft, light brown, SiLT, little fine to medium SAND, little

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-70135

Date: 08/11/2009

Weather: Mid 80s. Wind 10-15 NW. Mix Sun/Clouds.

Northing: 1116829.05

Easting: 927449.17 Mud Line: 361.1 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARAH CHMURA Water Elev: 364.3 Ft

Attempts: 1
Depth Units: Ft

Surface Water Depth: 3.2 Ft

Penetration Depth: 12 Core Recovery Depth: 10.2

Depth	Recov	Sample	PID	USCS	7 6 7	Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
		OL-0878-01	0	ML-SM	0-5 inches is wet, loose, black, fine SAND, little silt, trace shells, petroleum-like odor. Rest of core is wet, very soft, light brown, SILT, some fine sand, trace shells, slight petroleum-like odor (MARL).	Vibracore	Fine Sand
		OL-0878-02	0	SM	Wet, loose, light brown with black in top 7 inches, fine SAND, some silt, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
Ī		OL-0878-03	0	ML-SM	Wet, very soft, light brown, SILT, some fine sand, trace shells, sulfur odor (MARL).	Vibracore	
Ť	П	OL-0878-05	0	ML-SM	Wet, very soft, light brown, SILT, some fine sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0878-06	0	ML-SM	Wet, very soft, light brown, SILT, some fine sand grading to little fine sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0878-07	0	ML	Wet, very soft, gray, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	Marl
Ť		OL-0878-08	0	ML	Wet, very soft, gray, SILT, little fine sand, trace shells, sulfur odor (MARL).	Vibracore	
Ť		OL-0878-09	1.5	ML	Wet, very soft, gray, SILT, little fine sand grading to trace fine sand, trace shells, sulfur odor (MARL).	Vibracore	
		OL-0878-10	38.6	ML	Wet, very soft, gray, SILT, trace fine sand, trace shells, sulfur odor (MARL).	Vibracore	
Ť		OL-0878-11	3.6	ML	Wet, very soft, gray, SILT, trace fine sand, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-70136

Date: 08/10/2009

Weather: Low 80s. Cloudy. Chance T-Showers.

Water Elev: 363.9 Ft

Attempts: 1

Depth Units: Ft

Northing: 1116835.03

Easting: 926894.19 Mud Line: 358 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: XIAODONG HUANG

Core Recovery Depth: 7.6

Surface Water Depth: 5.8 Ft Penetration Depth: 10 Core Rec

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0876-08	0	ML	Wet, very soft, black, SILT, trace organics, petroleum-like odor.	Vibracore	
		OL-0876-09	4.4	ML	Wet, very soft, black, SILT, trace clay, petroleum-like odor.	Vibracore	Silt
-		OL-0876-11	0.1	ML/SP	0-6 inches is wet, very soft, black, SILT, trace fine sand, trace organics, petroleum-like odor (ML). Rest of core is wet, very loose, black, fine SAND, trace organics, petroleum-like odor (SP).	Vibracore ·	
	ľ	OL-0876-12	0.1	SW	0-9 inches is wet, very loose, black, fine SAND, trace silt, trace organics, trace shells,petroleum-like odor (SP). Rest of core is wet, very loose, light brown, fine to medium SAND, trace shells, sulfur odor (SW).	Vibracore	Fine Sand
_		OL-0876-13	0	SP	Wet, very loose, light brown fine SAND, trace silt, trace shells, sulfur odor (MARL).	Vibracore	Marl
5 —		OL-0876-14	0	SP	Wet, very loose, light brown, fine SAND, trace silt, trace shells, sulfur odor (MARL).	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-70137

Date: 08/11/2009

Weather: Mid 80s. Wind 10-15 NW. Mix Sun/Clouds.

Northing: 1117156.44

Easting: 927211.47 Mud Line: 358.4 Ft Driller: Anchor QEA

Logging Company: PARSONS Geologist: SARA CHMURA Water Elev: 363.9 Ft

Attempts: 1
Depth Units: Ft

Surface Water Depth: 5.5 Ft

Penetration Depth: 10

Core Recovery Depth: 6.4

Depth	So	Sample	PID	USCS		Sample	
Ft	Recov	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0877-14	0.2	ML	Wet, very soft, black, SILT, trace fine sand, trace organics, fine sand seam at 8-9 inches, petroleum-like odor.	Vibracore	Silt
		OL-0877-15	0	SM	Wet, very loose, dark gray, fine SAND, little to trace silt, trace shells, slight petroleum-like odor, silt seam at 7-8 inches.	Vibracore	Fine Sand
-		OL-0877-16	0	SP	0-7 inches: Wet, loose dark gray fine SAND, little to trace silt, trace shells, slight petroleum-like odor, large piece of metal at 2 inches (1-inch thick). Rest 7-12 inches: Wet, very soft, tan SILT, some fine sand, trace shells, sulfur odor (MARL), (SM).	Vibracore	
	ľ	OL-0877-17	0	ML	Wet, very soft, light brown, SILT, trace fine sand, trace shells, trace organics, sulfur odor (MARL).	Vibracore	
		OL-0877-18	0	ML	Wet, very soft, light brown, SILT, trace fine sand, trace shells, trace organics, sulfur odor.	Vibracore	Marl
+		OL-0877-19	0	ML	Wet, very soft, light brown, SILT, trace fine sand, trace shells, trace organics, sulfur odor.	Vibracore	

Page 1 of 1



Site: Onondaga Lake (Syracuse NY)

Boring No: OL-VC-70138

Date: 08/04/2009

Weather: High 80s, mix, sun & clouds, winds SW 10-15

Northing: 1117299.28

Easting: 927085.08

Mud Line: 362.43 Ft

Driller: Anchor QEA

Logging Company: PARSONS

Geologist: HMP

Penetration Depth: 10.5

Water Elev: 363.27 Ft

Attempts: 3

Depth Units: Ft

Surface Water Depth: 0.83 Ft Core Recovery Depth: 6.4

Depth	Recov	Sample	PID	USCS		Sample	
Ft	Re	ID	(ppm)	Code	Soil Description	Method	Stratum
0		OL-0861-01	0.1	SM	Wet, loose, black, fine SAND, some silt, little organics, slight petroleum-like odor.	Vibracore	Fine Sand
		OL-0861-02	0	ML	0-3 in is wet, loose, black, fine SAND, some silt, little organics, slight petroleum-like odor. Rest of core is wet, very soft, black SILT, trace fine sand, trace organics, petroleum-like odor.	Vibracore	Silt
		OL-0861-03	0	sw	Wet, loose, dark grey, fine to medium SAND, little silt, trace organics, trace shells, petroleum-like odor.	Vibracore	Fine to Medium San
-		OL-0861-04	0	ML	0-6 in is wet, loose, grey, fine to medium SAND, trace silt, some shells, slight peroleum-like odor. Rest of core is wet, very soft, light brown, SILT, trace fine sand, little shells, trace organics, sulfur odor, (MARL).	Vibracore	
		OL-0861-05	0	ML	Wet, very soft, light brown, SILT, little fine sand, little shells, trace organics, sulfur odor, (MARL).	Vibracore	MARL
5 —		OL-0861-06	0.1	ML	Wet, very soft, light brown, SILT, little fine sand, little shells, trace organics, sulfur odor, (MARL).	Vibracore	