

ATTACHMENT A

BORING LOGS

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20001-SB

Date: 10/13/2005

Weather: Variable



Northing: 1118567.1

Easting: 922506.9

Mud Line: 361.20 Ft

Surface Water Depth: 1.5 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: SD

Rig Type: CME-75 BARGE MOUNTED/VIBRACORE

Total Depth: 46.9 Ft

Water Elev: 362.70 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20		OL-0072-07					ML	Gray, SILT, some clay, trace little shells.	Shelby	
25										MARL
30										
35										
							CL	Wet, soft, brown CLAY, sticky.		CLAY
40		OL-0072-08					CL	Brown CLAY	Shelby	

BORING LOG

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Date: 10/13/2005

Weather: Variable



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Total Depth: 46.9 Ft
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Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
40		OL-0072-08					CL	Brown CLAY	Shelby	CLAY
							CL	Brown CLAY, 6 inches recovery.		
								No Recovery		
45		OL-0072-09					CL	Wet, soft, brown, CLAY.	Shelby	
46.9										

Supplemental sampling was conducted using 10 foot lexane tubes like Vibracore pushed into sediment by barge mounted drill rig. Sampling was conducted at N 1118567.1, E 922506.9 on 10/11/2005. Both SB and VC conducted. SB at coordinates above VC at N 1118555.06, E 922461.77 on 10/13/2005.

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20001-VC

Date: 10/11/2005 - 10/13/2005

Weather: 54F, cool, misty, light breeze, rain

Honeywell

Northing: 1118555.06

Easting: 922461.77

Mud Line: 361.20 Ft

Surface Water Depth: 1.5 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.70 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0064-27/OL-0071-01	1.4	0.003	SP	Wet, loose, gray grading to light brown, fine SAND, trace fines, trace organics, trace shells, petroleum-like odor, sulfur odor.	Vibracore	MARL
5	OL-0064-28	2	0	SP	Wet, loose brown, medium SAND, trace fines, trace shells, sulfur odor.	Vibracore	
	OL-0064-29	1.2		SM	Wet, loose brown, medium SAND, trace fines, trace shells, sulfur odor. Lower 1.5 foot section, medium sand, trace fines, trace shells (SP).	Vibracore	
10	OL-0064-30	1.2		SM	Wet, loose brown, medium SAND, little fines, trace shells, sulfur odor.	Vibracore	
15	OL-0064-31/OL-0071-02	1.2		SM	Wet, loose brown, fine SAND, little fines, trace shells, sulfur odor.	Vibracore	
	OL-0064-32	1.4	0.004	SM	Wet, loose brown, fine SAND, little fines, trace shells, sulfur odor.	Vibracore	
20							

Honeywell

Northing: 1118555.06

Easting: 922461.77

Mud Line: 361.20 Ft

Surface Water Depth: 1.5 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.70 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0073-01	1.1	0	CL	Wet, soft to stiff, light brown, CLAY, trace silt, trace shells, trace fine sand, moderate plasticity, sulfur odor, rivet in lower 6 inches of core.	PUSH CORE	MARL
25	OL-0073-02	0.8	0	CL	Wet, stiff, light brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	
	OL-0073-03	0.7	0	CL	Wet, stiff, light brown, CLAY, trace silt, trace shells, rivet in bottom of core section, larger clam shell, sulfur odor, moderate plasticity.	PUSH CORE	
30	OL-0073-04	0.7	0	CL	Wet, stiff, light brown, CLAY, trace silt, trace shells, moderate plasticity, sulfur odor.	PUSH CORE	
35	OL-0073-05	0.8	0	CL	Wet, stiff, reddish-brown, CLAY, trace shells, moderate plasticity.	PUSH CORE	Red-brown CLAY
36.9	<p>Vibracore sampler pushed to 20 feet on 10/11/2005. Barge mounted drill rig pushed lexane tubes from 20 to 36.9 feet on 10/13/2005 at N 1118567.1. E 922506.9. Shelby tube samples collected at this location - see boring log for OL-STA-20001-SB.</p>						

Honeywell

Northing: 1118665.45

Easting: 922578.09

Mud Line: 351.39 Ft

Surface Water Depth: 11.6 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.70 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0061-36	1.2	0	ML	Wet, soft, black SILT, trace fine sand, trace clay, strong petroleum-like odor.	Vibracore	SILT
5	OL-0061-37/OL-0071-03	1.2	0	ML	Wet, soft, black, SILT, trace fine sand, trace clay, trace organics, strong petroleum-like odor.	Vibracore	
6	OL-0061-38	1.2	0	SOLW	Wet, soft, light gray to gray, silt-like grains, trace clay, trace sand-like grains, little silt-like chunks, petroleum-like odor, moth ball odor.	Vibracore	SOLVAY WASTE
10	OL-0061-39	2.2	0	SOLW	Wet, soft, light gray, silt-like grains, trace clay, little silt-like chunks, moth ball odor. Lower 1.5 foot of core: wet, soft, black, SILT, trace organics, little clay, petroleum-like odor, trace bedding horizons (USCS=ML).	Vibracore	SILT
15	OL-0061-40/OL-0071-04	2.2	0	SM	Wet, soft, black, SILT, little organics, little clay, petroleum-like odor (USCS = ML). Lower 2 foot of core: wet, soft, loose, gray, fine SAND, some silt, trace clay, trace shells, sulfur odor (USCS=SM).	Vibracore	SAND/silt (Mar)
20	OL-0061-41	1.4	0	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor. Lower 1.5 feet: wet, loose, brown, SAND, some silt, trace shells, trace clay, sulfur odor (USCS = SM). Lowest 2 inches: Wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor.	Vibracore	CLAY (Mar)

Honeywell

Northing: 1118665.45

Easting: 922578.09

Mud Line: 351.39 Ft

Surface Water Depth: 11.6 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.70 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0085-13/OL-0095-01	0.5	0.003	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor. Moderate plasticity.	PUSH CORE	CLAY (Marl)
25	OL-0085-14	1.1	0	CL	Wet, stiff, brown, CLAY, trace to little silt, trace shells, trace organics, sulfur odor, moderate plasticity, 1.5 feet from bottom of core is a 6 to 8 inch siltier region.	PUSH CORE	
	OL-0085-15	0.5	0	CL	Wet, stiff, brown, CLAY, sulfur odor, moderate plasticity, lower 1 foot of core is wet, stiff, red brown, CLAY, trace silt, trace to little organics. Friable coal-like material, moderate plasticity.	PUSH CORE	Red-brown CLAY
30	OL-0085-16	0.3	0	CL	Upper 1 foot of core is wet, soft, brown, CLAY, little silt, trace shells, no odor, low plasticity. (CL) rest of core is wet, stiff, red brown, CLAY, little organics, trace silt, moderate plasticity.	PUSH CORE	
35	OL-0085-17/OL-0095-02	0.3	0	CL	Wet, stiff, red brown, CLAY, little silt, trace fine sand, trace organics, low plasticity.	PUSH CORE	
36.8							

Vibracore sampling to 20 feet at above coordinates on 10/10/2005. Barge mounted drill rig pushed lexane tubes from 20 to 36.8 feet at this station, coordinates N 1118663.5, E 922571.9 on 10/19/2005.

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20003-VC

Date: 10/11/2005 - 10/18/2005

Weather: Cloudy, windy, cool.



Northing: 1118494.74

Easting: 922643.33

Mud Line: 353.58 Ft

Surface Water Depth: 9.1 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.68 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0064-08	1	0	ML	Wet, soft, black, SILT, trace clay, trace coarse sand, strong petroleum-like odor.	Vibracore	
5	OL-0064-09	1.1	0	ML	Wet, soft, black, SILT, trace clay, trace coarse sand, strong petroleum-like odor.	Vibracore	SILT
	OL-0064-10/OL-0071-05	1.1	0	ML	Wet, soft, black, SILT, trace clay, trace coarse sand, strong petroleum-like odor.	Vibracore	
10	OL-0064-11	2	0	SOLW	Wet, soft, gray and black, silt-like grains, little organics, trace clay, trace coarse sand, strong petroleum-like odor.	Vibracore	SOLVAY WASTE
15	OL-0064-12/OL-0071-06	1.2	0	ML	Upper and lower 1 foot of core -petroleum-like staining. Wet, soft to loose, black and gray, SILT, and fine SAND, trace clay, trace shells, petroleum-like odor, sulfur odor, trace organics. (SP)	Vibracore	SILT-SAND (Marl)
	OL-0064-14/OL-0071-07	1.1	0	CL	Interbedded petroleum-like staining, clay marl, wet, soft, black and brown, CLAY, little silt, little organics, sulfur odor, trace shells, petroleum-like odor.	Vibracore	CLAY (Marl)
20				ML	Wet, soft, black SILT, trace shells, petroleum-like sheen and odor.	PUSH CORE	SILT (MARL)
22	OL-0083-01	1.1	0.003	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, trace organics, sulfur odor.	PUSH CORE	CLAY (Marl)

Honeywell

Northing: 1118494.74

Easting: 922643.33

Mud Line: 353.58 Ft

Surface Water Depth: 9.1 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.68 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
22	OL-0083-01						
25	OL-0083-02	0.3	0.003	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, trace organics, sulfur odor.	PUSH CORE	CLAY (Marl)
30	OL-0083-03/OL-0095-03	1	0.003	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, trace organics, sulfur odor. 3 inch coarse sand layer 1.5 feet from bottom.	PUSH CORE	
35	OL-0083-04	1	0.003	CL	Wet stiff reddish brown CLAY, trace silt, little organics, bedded friable coal-like organics.	PUSH CORE	
35	OL-0083-05	1	0.003	CL	Wet, soft, red brown, CLAY, trace silt, little organics, friable coal-like organics, lower 6 inches -silt, little fine sand. (ML)	PUSH CORE	Red-brown CLAY
40.2	OL-0083-06/OL-0095-04	10.1	0.03	CL	Wet, stiff, red brown, CLAY, little silt, trace organics, moderate plasticity.	PUSH CORE	

Vibracore sampling conducted to 20 feet at above coordinates on 10/11/2005. Barge mounted drill rig pushed lexane tubes from 20 to 40.2 feet at this station, coordinates N 1118503.1, E 922643.5 on 10/18/2005.



Northing: 1118298.63

Easting: 922720.73

Mud Line: 358.33 Ft

Surface Water Depth: 4.62 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: S. DILLMAN

Rig Type: CME-75 BARGE MOUNTED

Total Depth: 40.6 Ft

Water Elev: 362.95 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
21										
25										
30										
35										
		OL-0072-02					CL	Wet, soft, brownish-gray, CLAY.	Shelby	CLAY
		OL-0072-03					CL	Wet, soft, brownish-gray, CLAY, natural coppery sheen.	Shelby	
40										
40.6										

An SB was conducted at this station to collect Shelby Tube samples. Lexane tubes pushed from 20 to 36.6 ft by drill barge at N1118298.62, E 922720.72. See VC log for push tube sample observations.

Honeywell

Northing: 1118298.62

Easting: 922720.72

Mud Line: 358.33 Ft

Surface Water Depth: 4.62 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.95 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	0064-21/0118-25/0071-08	1.2	0.004	ML	Wet, soft, black, SILT, little sand, trace clay, trace organics, petroleum-like odor.	Vibracore	SILT
5	OL-0064-22	1.2	0	ML	Wet, soft, black, SILT, little sand, trace clay, trace organics, petroleum-like odor.	Vibracore	
	OL-0064-23	1.4	0	ML	Wet, soft, black, SILT, little sand, trace clay, trace organics, petroleum-like odor.	Vibracore	
10	OL-0064-24	1.4	0	ML	Wet, soft, black, SILT, little sand, trace clay, trace organics, petroleum-like odor.	Vibracore	
15	OL-0064-25	1.2	0	SOLW	Wet, soft, green grading to off-white, silt-like grains, trace organics, trace clay, moth ball odor.	Vibracore	SOLVAY WASTE
	OL-0064-26	1.2	0	SOLW	Wet, soft, green grading to off-white, silt-like grains, trace organics, trace clay, moth ball odor.	Vibracore	
20							

Honeywell

Northing: 1118298.62

Easting: 922720.72

Mud Line: 358.33 Ft

Surface Water Depth: 4.62 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.95 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0061-07	1.2	0	SOLW	Wet, soft to stiff, off-white to green to gray, silt-like grains, trace clay, isolated NAPL stringers, moth ball odor. Lower 10 inches of core: wet, loose, gray, SAND, some silt, trace clay, sulfur odor (USCS = SM).	PUSH CORE	SOLVAY WASTE
25	OL-0061-08/OL-0071-09	1	0	CL	Wet, stiff, brown, CLAY, trace shells, trace silt, moderate plasticity, sulfur odor.	PUSH CORE	CLAY (Med)
	OL-0061-09	1.2	0	CL	This core section is only 1.5 Feet long (low recovery). Wet, stiff, brown, CLAY, trace shells, trace silt, moderate plasticity, sulfur odor.	PUSH CORE	
30	OL-0061-10	1.2	0	CL	Wet, stiff, brown, CLAY, trace shells, trace silt, moderate plasticity, sulfur odor.	PUSH CORE	
35	OL-0061-11/OL-0071-10	1.1	0	CL	Wet, stiff, brown grading to reddish-brown, CLAY, trace shells, trace silt, moderate plasticity, lower 2 foot of core interbedded organics coal-like friable, sulfur odor.	PUSH CORE	
36.6							

An SB was conducted at this station to collect Shelby Tube samples and lexane push cores from 20-36.6 feet on 10/10/2005 and 10/11/2005 at N 1118298.62, E 922720.72. VC was pushed from 0-20 feet at the above coordinates on 10/10/2005. PUSHED LEXANE TUBES

Honeywell

Northing: 1118448.78

Easting: 922826.08

Mud Line: 347.44 Ft

Surface Water Depth: 14.88 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.32 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0054-01	0.9	0	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, moderate plasticity, sulfur odor.	PUSH CORE	CLAY (Marl)
25	OL-0054-02/OL-0071-12	0.9	0	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, moderate plasticity, sulfur odor.	PUSH CORE	
	OL-0054-03			CL	Wet, stiff, brown, CLAY, trace silt, trace shells, moderate plasticity, sulfur odor.	PUSH CORE	
30	OL-0054-04	0.9	0	CL	Wet, stiff, gray to dark gray, CLAY, trace silt, little organics, 2.5 feet from bottom -bedding planes between organics and clays, organic layers, coarse pliable coal like material.	PUSH CORE	CLAY
35	OL-0054-05/OL-0071-13	0.9	0	CL	Wet, stiff, brown, CLAY, trace silt, thin black organic layers, coarse coal like material. Moderate plasticity.	PUSH CORE	
36.6							

VC sampling conducted from 0-20 feet at above coordinates. Barge mounted drill rig was used to push texane tubes from 20 to 36.6 feet at this station, at N 1118448.78, E 922826.08.

Honeywell

Northing: 1118261.1

Easting: 922874.8

Mud Line: 352.30 Ft

Surface Water Depth: 10.2 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.50 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0061-01	1	0.004	SOLW	Wet, soft, gray to black, silt-like grains, trace sand-like grains, trace organics, trace clay, moth ball odor, petroleum-like odor.	Vibracore	
5	OL-0061-02	1	0	SOLW	Wet, soft, light gray, silt-like grains, trace clay, little organics, moth ball odor.	Vibracore	
	OL-0061-03/OL-0071-14	2.7	0	SOLW	Wet, soft, off-white, silt-like grains, trace clay, isolated NAPL stringers, moth ball odor.	Vibracore	
10	OL-0061-04	5.4	0	SOLW	Wet, soft, off-white, silt-like grains, trace clay, isolated NAPL stringers, moth ball odor.	Vibracore	SOLVAY WASTE
15	OL-0061-05	1.6	0	SOLW	Wet, soft, lower half of core: bright green to whitish-green, rest of core: off-white, silt-like grains, trace clay, isolated NAPL stringers, moth ball odor.	Vibracore	
	OL-0061-06	1.2	0	SOLW	Wet, soft, greenish-gray to bright green to light gray, silt-like grains, trace clay, trace organics, moth ball odor.	Vibracore	
20							
21	OL-0084-47						

Honeywell

Northing: 1118281.1

Easting: 922874.8

Mud Line: 352.30 Ft

Surface Water Depth: 10.2 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VG)/DO(LAB)

Water Elev: 362.50 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
21	OL-0064-47	1.2		SOLW	Wet, soft, green, silt-like grains, trace clay, moth ball odor. Lower 6 inches of core: wet, stiff, brown, SILT, trace clay, trace shells, sulfur odor (USCS = ML).	PUSH CORE	SOLVAY WASTE
25	OL-0064-48/OL-0071-15	1.2		CL	Wet, stiff, brown, CLAY, trace silt, trace shells, moderate plasticity, sulfur odor.	PUSH CORE	CLAY (Marl)
	OL-0064-49	1.2		CL	Wet, stiff, brown, CLAY, trace silt, trace shells, moderate plasticity, sulfur odor.	PUSH CORE	
30	OL-0064-50	1.2		CL	Wet, stiff, brown, CLAY, trace silt, trace shells, moderate plasticity, sulfur odor. Lower 1.5 feet of core: interbedded black coal-like friable organics.	PUSH CORE	CLAY
35	OL-0064-51	1.2		CL	Wet, stiff, reddish-brown, CLAY, trace silt, moderate plasticity, thinly bedded black coal-like friable organics.	PUSH CORE	
	OL-0064-52/OL-0071-16	1		CL	Wet, stiff, reddish-brown, CLAY, trace silt, moderate plasticity.	PUSH CORE	
40.2							

VC sampling conducted from 0-20 feet on 10/10/2005 at above coordinates. Barge mounted drill rig was used to sample from 20-40.2 feet pushing Lexane tube samplers at N 118253.96, E 922880.42. 10-FT AND 6.6 FT RUNS SEE LOG.

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20007-SB

Date: 10/12/2005

Weather: 10/12 Windy, cold, rain 10/27 Cldy, cold, lt breeze



Northing: 1118056.7

Easting: 922930.0

Mud Line: 351.99 Ft

Surface Water Depth: 10.7 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: S. DILLMAN, DIANE OSHLO

Rig Type: CME-75 BARGE MOUNTED/VIBRACORE

Total Depth: 40.6 Ft

Water Elev: 362.69 Ft

Depth Units: Ft

Depth Ft	Recov	Sample ID	Blow Count	N Value	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
21										
		OL-0072-04					ML	Wet, soft, gray, silt, little to some clay, trace shells.	Shelby	SILT
25										
30										
35										
		OL-0072-06					CL	Wet, soft, gray, clay, some silt	Shelby	CLAY/silt
		OL-0072-05					CL	Wet, soft, gray CLAY, some silt in end of tube.	Shelby	
40										
40.6										

VC sampling conducted from 0-20 feet on 10/11/2005 at above coordinates. Barge mounted drill rig used to collect Shelby Tubes and push Lexane sample tubes on 10/12/2005 at N 1118056.7, E 922930.0 and on 10/27/2005 at N 1118056.98, E 922922.4. See geotechnical report for Shelby Tube test results.

Honeywell

Northing: 1118055

Easting: 922922.1

Mud Line: 351.99 Ft

Surface Water Depth: 10.7 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.69 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0064-40	3.9	0	ML	Wet, soft to stiff, black, SILT, trace clay, trace organics, 2 foot section with chunks of steel slag and lignite (various sizes), petroleum-like odor.	Vibracore	SILT
5	OL-0064-41/OL-0071-17	1.7	0	ML	Wet, soft to stiff, black, SILT, trace clay, trace organics, trace lignite chunks, 1 foot into core: 1 large piece of solvay waste, bedding planes, petroleum-like odor.	Vibracore	
	OL-0064-42	1.9	0	SOLW	First foot of core: petroleum-like stained black silt. Rest of core: wet, soft, off-white, silt-like grains, trace clay, moth ball odor.	Vibracore	SOLVAY WASTE
10	OL-0064-43/OL-0071-18	1.3	0	SOLW	Wet, soft to stiff, off-white, silt-like grains, trace clay, moth ball odor.	Vibracore	
15	OL-0064-44	1.2	0	SOLW	Wet, soft, stiff, off-white to greenish-white, silt-like grains, trace clay, moth ball odor.	Vibracore	
20	OL-0064-45	1.2	0	SOLW	Wet, soft, greenish-white, silt-like grains, trace clay, moth ball odor. Last 1.5 feet with a 6 inch organic layer in between: wet, stiff, SILT, trace fine sand, little clay, trace shells, sulfur odor (USCS = ML).	Vibracore	

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20007-VC

Date: 10/11/2005 - 10/27/2005

Weather: 54F, cool, misty, light breeze, showers forecast.

Honeywell

Northing: 1118055

Easting: 922922.1

Mud Line: 351.99 Ft

Surface Water Depth: 10.7 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.69 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0066-01			SOLW	Six inches of clay marl at top and bottom of core. Rest of core: wet, soft to stiff, green to gray, silt-like grains, trace clay, 2 chunks of very hard sandstone-like material, moth ball odor.	PUSH CORE	SOLWAY WASTE
25	OL-0066-02			CL	Wet, soft to stiff, brown, upper half of core: SiLT, trace shells, some clay (USCS = ML). Lower half of core: CLAY, trace silt, trace shells, moderate plasticity (USCS = CL), sulfur odor.	PUSH CORE	CLAY/silt (Marl)
	OL-0066-03			CL	Wet, stiff, reddish-brown, CLAY, trace shells, trace silt, trace bedded friable coal-like organics in lower foot of core, moderate plasticity.	PUSH CORE	
30	OL-0066-04			ML	Wet, soft to stiff, reddish-brown, SiLT, some clay, trace organics, low plasticity.	PUSH CORE	
	OL-0097-07			ML	Wet, soft to stiff, red brown, SiLT, little clay, low plasticity.	PUSH CORE	SILT-CLAY
35				ML/CL	Wet, soft, dark brown SiLT and CLAY, grading to dark brown CLAY at bottom of sample.	PUSH CORE	
39.3							

VC sampling was conducted from 0-20 feet on 10/11/2005 at above coordinates. Barge mounted drill rig used to collect Shelby Tubes and push Lexane tubes at station from 15-40.6 ft on 10/12/2005 at N 1118056.7, E 922930.0 and from 20-26.6 ft and 33-39.6 ft on 10/27/2005 at N1118056.98, E 922922.4.

Honeywell

Northing: 1118223.48

Easting: 923030.84

Mud Line: 348.20 Ft

Surface Water Depth: 14.3 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.50 Ft

Depth Units: Ft

Depth	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0097-01	1.5	0	MH	Wet, stiff brown, SILT, some clay, trace shells, sulfur odor, moderate plasticity. 4 inches of slough on top of core.	PUSH CORE	SILT/clay (Med)
25	OL-0097-02	1.5	0	MH	Wet, stiff, brown, SILT, some clay, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	
	OL-0097-04	0.5	0	MH	Wet, stiff brown, SILT, some clay, trace shells, slight sulfur odor, top 6 inches (slough). Lower 1 foot of core -wet, stiff, red brown, CLAY, some friable coal-like organics, trace silt, slight sewer odor, moderate plasticity (CL).	PUSH CORE	
30	OL-0097-05	0.5	0	CL	Wet, stiff, red-brown, some friable coal-like organics, trace SILT, slight sewer odor, moderate plasticity.	PUSH CORE	CLAY
35	OL-0097-06	0.5	0	ML	Red, stiff, red brown, CLAY, trace silt, some to little organics, heavy concentration of organic material in the first 4 inches of core, slight sewer odor, moderate plasticity, 2.3 foot rest of core -wet slightly stiff, red brown, SILT, little clay.	PUSH CORE	

36.5

VC used to sample from 0-20 ft. on 10/10/2005 at above coordinates. Barge mounted drill rig used to push Lexane sample tubes from 17-36.6 feet on 10/27/2005 at N 1118221.8, E 923024.5.

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20009-VC

Date: 10/11/2005 - 10/19/2005

Weather: 10/18 Windy,cloudy,cool 10/19 Sunny,breezy,cool



Northing: 1118611.1
 Easting: 922522.9
 Mud Line: 351.80 Ft
 Surface Water Depth: 10.9 Ft

Drilling Company: Atlantic testing and OSI
 Logging Company: Parsons
 Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.70 Ft
 Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0064-01	6.3	0	SOLW	Wet, soft, gray and black, silt like grains, some organics, trace fine sand, trace clay, interbedded petroleum-like staining and solvay waste, petroleum-like odor, moth ball odor.	Vibracore	SOLVAY WASTE
5	OL-0064-02	0.08	0	SP	Wet, loose, fine SAND, trace organics, trace fines, trace shells, slight petroleum-like odor, sulfur odor.	Vibracore	SAND (Marl)
	CL-0064-03/OL-0071-20	0.8	0	SP	Wet, loose, light brown, fine SAND, trace shells, trace fines, sulfur odor. One pebble in upper 6 inches of core, well rounded, 1 inch in size.	Vibracore	
10	OL-0064-04	1.2	0	SM	Wet, loose, light brown, medium SAND, trace to little fines, trace shells, sulfur odor.	Vibracore	
15	OL-0064-06	0.8	0	SP	Wet, loose, light brown, medium to fine SAND, trace fines, trace shells, downward fining sequence lower half of core, fine sand. Sulfur odor.	Vibracore	
	OL-0064-07/OL-0071-21	1	0	ML	Wet, stiff, light brown, SILT, little clay, trace fine sand, trace shells, sulfur odor. One large clam shell.	Vibracore	
20							

Honeywell

Northing: 1118611.1

Easting: 922522.9

Mud Line: 351.80 Ft

Surface Water Depth: 10.9 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.70 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0083-07	0.5	0	CL	Wet, stiff, brown, CLAY, little silt, trace shells, sulfur odor. Low to moderate plasticity. One large clam shell.	PUSH CORE	CLAY/silt (Marl)
25	OL-0085-01/OL-0095-06	1.5	0	SP	Actual recovery is 1.1 feet. Wet, loose, brown, fine SAND, trace shells, trace fines, sulfur odor.	PUSH CORE	SAND (Marl)
				-	No Recovery		
30	OL-0085-02		0	CL	Wet, stiff, brown, CLAY, trace shells, trace silt, sulfur odor, moderate plasticity.	PUSH CORE	CLAY (Marl)
35	OL-0085-03/OL-0088-03	0.5	0	CL	Wet, stiff, brown, CLAY, trace to little silt, trace shells, low to moderate plasticity, lower 1.5 feet of core is wet, stiff, red brown, CLAY, trace silt, little friable-like organics, moderate plasticity.	PUSH CORE	
	OL-0085-04/OL-0095-07		0	CL	Wet, stiff, reddish brown, trace to little silt, trace organics, moderate to low plasticity, lower 1.5 feet of core is siltier than above.	PUSH CORE	Red-brown CLAY
40							



Northing: 1118611.1
 Easting: 922522.9
 Mud Line: 351.80 Ft
 Surface Water Depth: 10.9 Ft

Drilling Company: Atlantic testing and OSI
 Logging Company: Parsons
 Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.70 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
40				CL	Wet, soft, brown CLAY	PUSH CORE	CLAY

43.5

VC used to sample from 0-20 ft. on 10/11/2005 at above coordinates. Barge mounted drill rig used to push Lexane sample tubes from 17-43.5 feet. Due to poor sample recovery at N 1118607.3, E 922525.6 a second boring was drilled at N 1118613.7, E 922526.9 on 10/18/2005 and 10/19/2005.

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20010-VC

Date: 10/11/2005

Weather: 10/17 Windy, cool, cloudy 10/31 Sunny, breezy, cool

Honeywell

Northing: 1118426.2
 Easting: 922580.9
 Mud Line: 360.40 Ft
 Surface Water Depth: 2.2 Ft

Drilling Company: Atlantic testing and OSI
 Logging Company: Parsons
 Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.60 Ft
 Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0064-53	4.5	0	SP	Wet, loose, black to brown, fine SAND, trace organics, trace fines, trace shells, petroleum-like odor.	Vibracore	SAND (Marl)
5	OL-0064-54/OL-0071-22	11.9	0.013	SP	Wet, loose, light brown, fine SAND, trace fines, trace shells, trace organics, sulfur odor.	Vibracore	
	OL-0064-55	5.4	0.008	SM	Wet, loose, light brown, fine SAND, little fines, trace shells, trace organics, sulfur odor.	Vibracore	
10	OL-0064-57	5.4	0.004	SM	Wet, loose, light brown, fine SAND, little fines, trace shells, trace organics, sulfur odor.	Vibracore	
15	OL-0064-58/OL-0071-23	10.9	0.009	SM	Wet, loose, light brown, fine SAND, little fines, trace shells, trace organics, sulfur odor.	Vibracore	
	OL-0064-59	788	0	SM	Wet, loose, light brown, fine SAND, little fines, trace shells, trace organics, two 4" lenses saturated with NAPL, sulfur odor, very strong chlorobenzene odor.	Vibracore	
20	OL-0081-01						
21							

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20010-VC

Date: 10/11/2005

Weather: 10/17 Windy, cool, cloudy 10/31 Sunny, breezy, cool



Northing: 1118426.2
Easting: 922580.9
Mud Line: 360.40 Ft
Surface Water Depth: 2.2 Ft

Drilling Company: Atlantic testing and OSI
Logging Company: Parsons
Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.60 Ft
Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
21	OL-0081-01	40	0.007	ML	Wet, soft, brown, SILT, little clay, trace shells, saturated NAPL lens, sulfur odor, chlorobenzene odor.	PUSH CORE	SILT (Marl)
25	OL-0081-02	2500	0.003	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, 2 inch medium sand lens, about 1 foot from top of core, one inch thick NAPL lens, chlorobenzene and sulfur odor.	PUSH CORE	CLAY (Marl)
					No Recovery		
30	OL-0081-03/OL-0095-08	0.4	0.004	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, trace organics, strong sulfur odor, moderate plasticity.	PUSH CORE	CLAY (Marl)
	OL-0081-04	0.4	0.004	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, one large clam like shell, sulfur odor, moderate plasticity.	PUSH CORE	
	OL-0081-05	0.5		CL	Top half of core -wet, stiff, brown, CLAY, trace silt, trace shells, mild sulfur odor, lower half -wet, stiff, red brown CLAY, trace silt, trace friable coal like organics.	PUSH CORE	
40	OL-0081-06/OL-0095-09	0.5		CL	Wet, stiff, red brown, CLAY, first 1 foot, trace silt, rest of core trace to little silt, bedded, friable coal like organics.	PUSH CORE	Red-brown CLAY

VC used to sample from 0-20 ft. on 10/11/2005 at above coordinates. Barge mounted drill rig used to push Lexane sample tubes from 17-40.2 ft. on 10/17/2005 at N 1118426.5, E 922584.15. Supplemental sampling conducted from 16-26 ft. on 10/31/2005 at N 1118418.8, E 922583.0.

Honeywell

Northing: 1118547.15

Easting: 922701.28

Mud Line: 347.77 Ft

Surface Water Depth: 14.8 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.57 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0061-18	1.2	0	SOLW	Upper 2 feet: wet, soft, black to dark gray, silt-like grains, trace clay, little organics, strong petroleum-like odor. Next 1.5 feet: wet, loose to stiff, dark gray to brown, SILT, trace shells, trace sand, little clay (USCS = ML).	Vibracore	
5	OL-0061-19	12.4	0	SOLW	Wet, soft, black, gray to tan, silt-like grains, little sand, trace clay, little organics, isolated NAPL globule, moderate petroleum-like. 6 inch unit (6 inches off the top): wet, stiff, brown, CLAY, trace silt, trace shells, petroleum-like odor (USCS = CL).	Vibracore	
	OL-0061-20	1.7	0	SOLW	Wet, soft, off-white, silt-like grains, trace clay, trace organics, moth ball odor.	Vibracore	SOLVAY WASTE
10	OL-0061-21	3.7	0	SOLW	Silt with petroleum-like staining and solvay waste interbedded. Wet, soft, black and gray, SILT, and silt-like grains, trace clay, little organics, strong petroleum-like odor.	Vibracore	
15	OL-0061-22	1.3	0.009	SOLW	Silt with petroleum-like staining and solvay waste interbedded. Wet, soft, black and gray, SILT, and silt-like grains, trace clay, little organics, strong petroleum-like odor. Lower 6 inches of core: wet, soft to stiff, gray to brown, SILT, little clay, trace fine sand, sulfur odor.	Vibracore	
	OL-0061-23/OL-0071-24	3.7	0.009	CL	Wet, stiff, brown, CLAY, trace shells, trace silt, moderate plasticity, sulfur odor.	Vibracore	SILT/clay (Marl)
20							

Honeywell

Northing: 1118547.15

Easting: 922701.28

Mud Line: 347.77 Ft

Surface Water Depth: 14.8 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/MB(VC)/DO(LAB)

Water Elev: 362.57 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0093-01	0	0	MH	Wet, stiff, brown, SILT, little to some clay, trace shells, sulfur odor, moderate plasticity.	Vibracore	SILT/clay (Marl)
25	OL-0093-02	0.1	0	MH	Wet, soft to stiff, brown, SILT, some to little clay, trace shells, upper 1.1 foot -softer, looser, 1 inch seam of dark, silt material with petroleum-like odors. Rest of core -stiffer, sulfur odor.	Vibracore	
	OL-0093-03	0.4	0	MH	Wet, stiff, brown, SILT, little clay, trace shells, slight sulfur odor, moderate plasticity (MH). The lower 1 foot -wet, stiff, and red brown, little to some friable coal like organics, moderate plasticity, trace silt (CL).	Vibracore	
30	OL-0093-04	0.3	0	CL	Wet, stiff, brown, SILT, little clay, trace shells, slight sulfur odor, moderate plasticity (MH). The lower 1 foot -wet, stiff, and red brown, little to some friable coal like organics, moderate plasticity, trace silt (CL).	Vibracore	Red-brown CLAY
35	OL-0093-05/OL-0101-0	0.3	0	CL	Wet, stiff to soft, red-brown, little friable, coal-like organics, trace silt to some silt, CLAY, lower 1.5 feet - no organics, siltier.	Vibracore	
36.6	VC used to sample from 0-20 ft. at above coordinates. Barge mounted drill rig used to push Lexane sample tubes from 17-36.6 feet on 10/26/2005 at N 1118543.5, E 922696.3.						

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20012-VC

Date: 10/07/2005

Weather: 70F, cloudy, damp, light breeze.



Northing: 1118395

Easting: 922766

Mud Line: 351.65 Ft

Surface Water Depth: 10.76 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/SC(VC)/DO(LAB)

Water Elev: 362.41 Ft

Attempts:

Depth Units: Ft

Depth	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0064-15	1.2		ML	Wet, soft, very black, SILT, trace clay, trace organics, strong petroleum-like odor.	PUSH CORE	SILT
5	OL-0064-16/OL-0071-25	1.2		ML	Wet, soft, and black, SILT, little fine sand, trace organics, trace clay, petroleum-like odor.	PUSH CORE	
	OL-0064-17	1.1		ML	Wet, soft, very black to gray, SILT, trace clay, trace organics, petroleum-like odor. Lower 1 foot of core -gray solvay waste	PUSH CORE	
10	OL-0064-18	1.4		SOLW	Wet, soft, dark gray, silt like grains, trace organics, trace to little clay, petroleum-like odor, slight moth ball odor.	PUSH CORE	SOLVAY WASTE
15	OL-0064-19	1.2		SOLW	Wet, soft to stiff, green, silt like grains, trace clay, trace organics, bedding planes, moth ball odor.	PUSH CORE	
	OL-0064-20	1.2		SOLW	Wet, soft to stiff, green, silt like grains, trace clay, trace organics, moth ball odor, bedding planes.	PUSH CORE	
20							

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20012-VC

Date: 10/07/2005

Weather: 70F, cloudy, damp, light breeze.

Honeywell

Northing: 1118395

Easting: 922766

Mud Line: 351.65 Ft

Surface Water Depth: 10.76 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: SD(PC)/SC(VC)/DO(LAB)

Water Elev: 362.41 Ft

Depth Units: Ft

Depth	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0059-07	0.8	0	SOLW	Wet, soft, green, silt like grains, trace organics, trace clay, strong moth ball odor (SOLW) bottom 2 inches of core -brown clay.	PUSH CORE	SOLVAY WASTE
25	OL-0059-08	0.8	0	CL	Wet, stiff, CLAY, trace silt, trace shells, sulfur odor (CL). Top 6-8 inches -appears to be slough from previous section. Moderate plasticity.	PUSH CORE	CLAY (Marl)
	OL-0059-09/OL-0118-24		0	CL	Wet, stiff, brown, CLAY, trace silt, moderate plasticity, trace shells, sulfur odor. Top 6 inches slough.	PUSH CORE	
30	OL-0059-10	0.8	0	CL	Wet, stiff, brown, grading to darker brown with inner beds, CLAY, trace silt, trace shells, trace organics, lower 1 foot -bedding planes, clay interbedded with organic like material, friable, coal like organics, sulfur odor.	PUSH CORE	
35	OL-0059-11/CL-0071-28	0.8	0	CL	Wet, stiff, brown, clay interbedded with organic like material, friable, coal like organics, sulfur odor, bedding planes, moderate plasticity.	PUSH CORE	
36.6							

VC used to sample from 0-20 ft. on 10/7/2005. Barge mounted drill rig used to push Lexane sample tubes from 17-36.6 feet on 10/11/2005.

Honeywell

Northing: 1118187

Easting: 922806.7

Mud Line: 357.84 Ft

Surface Water Depth: 4.8 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: MB(VC)/DO(PC&LAB)

Water Elev: 362.64 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0064-33	1.1	0	SOLW	Wet, soft, black grading to dark gray, silt-like grains, trace clay, trace organics, petroleum-like odor.	Vibracore	
5	OL-0064-34	1.7	0	SOLW	Wet, soft, black-gray then off-white, silt-like grains, trace clay, trace organics, moth ball odor.	Vibracore	
	OL-0064-36	1.7	0	SOLW	Wet, soft, off-white to gray, silt-like grains, trace clay, moth ball odor.	Vibracore	
10	OL-0064-37	4.1	0	SOLW	Wet, soft to stiff, bluish-white, silt-like grains, trace clay, isolated NAPL stringer, moth ball odor.	Vibracore	SOLVAY WASTE
15	OL-0064-38/OL-0071-27	1.2	0	SOLW	Wet, soft to stiff, Upper 1 foot green, rest of core bluish-white, silt-like grains, trace clay, bedding planes, moth ball odor.	Vibracore	
	OL-0064-39	1.2	0	SOLW	Wet, soft to stiff, bluish-white, silt-like grains, trace clay, bedding planes, moth ball odor.	Vibracore	
20							



Northing: 1118187
 Easting: 922806.7
 Mud Line: 357.84 Ft
 Surface Water Depth: 4.8 Ft

Drilling Company: Atlantic testing and OSI
 Logging Company: Parsons
 Geologist: MB(VC)/DO(PC&LAB)

Water Elev: 362.64 Ft
 Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0077-01	1.1	0	SOLW	Wet, soft, bluish white, silt like grains, trace clays, trace organics, moth ball odor.	PUSH CORE	SOLVAY WASTE
25	OL-0077-02	0.8	0	CL	Upper 6 inches, SOLW, rest of core -wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor, fizzes when HCL applied to clay, moderate plasticity.	PUSH CORE	CLAY (Marl)
30							
35	OL-0077-03/OL-0095-10	0.8	0	CL	Wet, soft to stiff, brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity, fizzes when HCL applied.	PUSH CORE	CLAY (Marl)
	OL-0077-04			CL	Wet, stiff, brown to reddish brown, CLAY, trace silt, trace shells, sulfur odor, lower 1 foot -bedded friable coal like organics, slight effervescence with HCL.	PUSH CORE	
40	OL-0077-05/OL-0095-11						

