

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20014-VC

Date: 10/10/2005 - 10/26/2005

Weather: Windy, cold, cloudy.



Northing: 1118321.88
 Easting: 922919.31
 Mud Line: 349.50 Ft
 Surface Water Depth: 13 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-0061-24/OL-0071-28	6.9	0	ML	Wet, soft, black grading to gray, SILT, little organics, trace clay, strong petroleum-like odor (USCS = ML). Lower 1.5 feet of core: wet, soft, gray, silt-like grains, trace clay, trace organics, mothball odor, petroleum-like odor (USCS = SOLW).	Vibracore	SILT
5	OL-0061-25	1.8	0	SOLW	Wet, soft, dark gray then bluish-white then light gray, silt-like grains, trace clay, trace organics, trace silt-like hard chunks, moth ball odor, petroleum-like odor.	Vibracore	SOLVAY WASTE
	OL-0061-26	2	0	SOLW	Wet, soft, off-white, silt-like grains, trace clay, moth ball odor.	Vibracore	
10	OL-0061-27	1.6	0	SOLW	Wet, soft, light gray to greenish-white to bright greenish-yellow, silt-like grains, trace clay, trace organics, moth ball odor.	Vibracore	
15	OL-0061-28/OL-0071-29	1.2	0	SOLW	Wet, soft to stiff, off-white to gray, silt-like grains, trace sand-like grain, in lower foot of core chunks of silt-like material, moth ball odor.	Vibracore	
	OL-0061-29	1.2	0	SOLW	Wet, soft to stiff, gray to green, silt-like grains, trace clay, trace organics, silt-like chunks in lower 6 inches of core, strong moth ball odor.	Vibracore	
20							

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20014-VC

Date: 10/10/2005 - 10/26/2005

Weather: Windy, cold, cloudy.



Northing: 1118321.86

Easting: 922919.31

Mud Line: 349.50 Ft

Surface Water Depth: 13 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
20	OL-0093-06	1.2	0	MH	6-8 inches of SOLW at top of core. Rest of core -wet, stiff, brown, SILT, little to some clay, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	SOLVAY WASTE
25	OL-0093-07/OL-0101-02	0	0	MH	Wet, stiff brown, SILT, little clay, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	SILT/clay (Med)
	OL-0093-08	0.5	0	MH	First foot of core appears to slough, rest of core wet, stiff, brown, SILT, little to some clay, trace shells, sulfur odor, moderate plasticity, trace wood.	PUSH CORE	
30	OL-0093-09/OL-0101-03	0.5	0	CL	Upper 1.5-2.0 feet of core, as last section, grading into, wet, stiff, red-brown, little to some friable coal-like organics, trace silt, moderate plasticity.	PUSH CORE	
35	OL-0093-10	0.5	0	CL	Wet, stiff, red brown, CLAY, little to some friable coal-like organics, trace silt, moderate plasticity, last 10 inches of core, softer less organics, moderate plasticity.	PUSH CORE	Red-brown CLAY

36.7

VC used to sample from 0-20 ft. at above coordinates on 10/10/2005. Barge mounted drill rig used to push Lexane sample tubes from 17-36.6 feet on 10/26/2005 at N 1118327.1, E 922919.6.

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20015-VC

Date: 10/10/2005 - 10/14/2005

Weather: Cloudy, 50's.

Honeywell

Northing: 1118145.43

Easting: 922985.55

Mud Line: 349.40 Ft

Surface Water Depth: 13.1 Ft

Drilling Company: Atlantic testing and OSI

Logging Company: Parsons

Geologist: MB(VC)/DO(PC&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
20	OL-0077-06	1.1	0	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	CLAY (Marl)
25	CL-0077-07/OL-0095-12	0.8	0	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	
	OL-0077-08	0.6	0	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	
30	CL-0077-09/OL-0095-13	0.8	0	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity. Friable.	PUSH CORE	
35	OL-0079-01	0.8	0	CL	Red brown CLAY.	PUSH CORE	
	OL-0079-02			CL	Red brown CLAY.	PUSH CORE	

VC used to sample from 0-20 ft. at above coordinates on 10/10/2005. Barge mounted drill rig used to push Lexane sample tubes from 17-40 feet on 10/14/2005.

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20019-VC

Date: 10/24/2005

Weather: 10/20 10/24 Cold, It breeze, mst cldy



Northing: 1118585.65

Easting: 922495.48

Mud Line: 357.61 Ft

Surface Water Depth: 2.35 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: SD(PC)/DO(LAB)

Water Elev: 359.96 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0					Advanced casing to 17 feet.		
5							
10							
15							
20	OL-0089-01	30	0.004	ML	Wet, soft, brown, SILT, trace shells, trace clay, trace fine sand, sulfur odor, very thin <1/2 cm NAPL stringer at 20ft.	PUSH CORE	SILT (Mar)
21	OL-0089-02						

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20019-VC

Date: 10/24/2005

Weather: 10/20 10/24 Cold, lt breeze, mst cldy



Northing: 1118585.65

Easting: 922495.48

Mud Line: 357.81 Ft

Surface Water Depth: 2.35 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: SD(PC)/DO(LAB)

Water Elev: 359.96 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
21	OL-0089-02	11.4	0.004	CL	Wet, stiff and brown, CLAY, little to trace silt, trace fine sand, trace shells, sulfur odor. At 1 foot -2 inch sand lens, fine grained. 4 inches further there is a 4 inch fine sand lens, moderate plasticity.	PUSH CORE	CLAY (Marl)
25	OL-0089-03/OL-0101-04	5.1	0.004	CL	Wet, stiff and brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	
	OL-0089-04	2.2	0.003	CL	Wet, stiff and brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	
30	OL-0089-05	1.9	0.003	CL	Wet, stiff and brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity, organics.	PUSH CORE	
35	OL-0089-07/OL-0101-05	0.6	0	CL	Wet, stiff, brown, CLAY, trace shells, trace silt, very mild sulfur odor, the lower 2 feet -wet, stiff, red brown, trace silt, moderate plasticity.	PUSH CORE	
	OL-0089-08	0.7	0	CL	Wet, dark, red-brown CLAY, little silt.	PUSH CORE	
40					Wet, soft, brown CLAY, little silt.	PUSH CORE	CLAY
42							



Northing: 1118585.65

Easting: 922495.48

Mud Line: 357.61 Ft

Surface Water Depth: 2.35 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: SD(PC)/DO(LAB)

Water Elev: 359.96 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
42							
45.0					Wet, soft, dark brown SILT, dilatent. Boring terminated at 45 ft.	PUSH CORE	SILT

Two borings were conducted at station by pushing lexane tubes. First boring drilled and sampled to 45 ft. on 10/20/2005. Due to poor recoveries, second boring was drilled on 10/24/2005. Results from 7-40 ft are from second boring. Results from first boring from 40-45 ft.

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20020-VC

Date: 10/19/2005 - 10/20/2005

Weather: Windy,cold,partly cloudy



Northing: 1118469.36

Easting: 922571.93

Mud Line: 356.94 Ft

Surface Water Depth: 5.57 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: SD(PC)/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					Advanced casing to 17 feet.		
5							
10							
15							
	OL-0085-06	6.6	0	ML	Wet, soft, black to brown, SILT, trace clay, trace to little organics, trace shells, one large clam shell, trace fine sand, petroleum-like odor, sulfur odor.	PUSH CORE	SILT (MARL)
20							
	OL-0085-07/OL-0101-08						
21							

Honeywell

Northing: 1118469.36

Easting: 922571.93

Mud Line: 356.94 Ft

Surface Water Depth: 5.57 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: SD(PC)/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
21	OL-0085-07/OL-0101-06	10.1	0.008	CL	Wet, stiff, brown, CLAY, trace to little silt, trace shells, low to moderate plasticity, sulfur odor.	PUSH CORE	
25	OL-0085-08	1.1	0.002	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity, first 4 inch is siltier than rest of core.	PUSH CORE	
	OL-0085-09	1.4	0	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	CLAY (Marl)
30	OL-0085-10	1.5	0	CL	Wet, stiff, brown, CLAY, trace silt, trace shells, sulfur odor.	PUSH CORE	
35	OL-0085-11	0.5	0	CL	Upper 8 -10 inches wet, stiff, brown, CLAY, trace silt, trace shells, no odor, moderate plasticity, rest of core -wet, stiff, red brown, CLAY, little friable coal-like organics, trace silt. Moderate plasticity.	PUSH CORE	
	OL-0085-12/OL-0101-07		0	CL	Upper 1 foot of core, wet, stiff, red brown, CLAY, little friable coal-like organics, trace silt, rest of core - wet, stiff red brown, CLAY, little silt, moderate to low plasticity.	PUSH CORE	Red-brown CLAY

40.1

PUSHED LEXANE TUBES

BORING LOG

Site: Onondaga Lake (Syracuse NY)

Boring No: OL-STA-20021-VC

Date: 10/21/2005

Weather: Cold, sunny, calm.



Northing: 1118346.59
 Easting: 922737.64
 Mud Line: 354.60 Ft
 Surface Water Depth: 7.95 Ft

Drilling Company: Atlantic Testing
 Logging Company: Parsons
 Geologist: SD(PC)/DO(LAB)

Water Elev: 362.55 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0					Advanced casing to 17 feet.		
5							
10							
15							
20	OL-0087-01/OL-0101-08	0.2	0	SOLW	Wet, soft to stiff, bluish-white to off-white, silt like grains, trace clay, trace organics, moth ball odor.	PUSH CORE	SOLVAY WASTE
21	OL-0087-02						



Northing: 1118346.59

Easting: 922737.64

Mud Line: 354.60 Ft

Surface Water Depth: 7.95 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: SD(PC)/DO(LAB)

Water Elev: 362.55 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
21	OL-0087-02	0.9	0	CL	First 1 foot of core -greenish SOLW. Rest of core -wet, stiff, CLAY, trace to little silt, trace pebbles, brown, 1 inch in size, trace shells, moth ball odor.	PUSH CORE	CLAY (Marl)
25	OL-0087-03	4.3	0.003	CL	Wet, stiff and brown, CLAY, trace silt, trace shells, moderate plasticity, sulfur odor.	PUSH CORE	
	OL-0087-04/OL-0101-09	0.9	0	CL	Wet, stiff and brown, CLAY, trace silt, trace shells, moderate plasticity, sulfur odor.	PUSH CORE	
30	OL-0087-05	1.1	0	CL	Wet, stiff and brown, CLAY, trace silt, trace shells, moderate plasticity, sulfur odor. Lower 4 inch to 6 inch wet, stiff, red brown clay, little friable coal-like organics.	PUSH CORE	
35	OL-0087-08/OL-0101-10	0.8		CL	Wet, stiff, red brown, CLAY, little to some friable coal-like organics, trace silt, moderate plasticity.	PUSH CORE	Red-brown CLAY
				CL	Wet, brown CLAY, trace silt, little odor.	PUSH CORE	

40.1

PUSHED LEXANE TUBES



Northing: 1118232.07

Easting: 922836.24

Mud Line: 354.44 Ft

Surface Water Depth: 8.2 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: DIANE OSHLO, S. DILLMAN

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					Advanced casing to 17 feet.		
5							
10							
15							
17	OL-0091-01/OL-0101-11	0	0	SOLW	Wet, soft, off-white, silt-like grains, trace clay, moth ball odor.	PUSH CORE	SOLVAY WASTE
20	OL-0091-02						
21							

Honeywell

Northing: 1118232.07

Easting: 922836.24

Mud Line: 354.44 Ft

Surface Water Depth: 8.2 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: DIANE OSHLO, S. DILLMAN

Water Elev: 362.64 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
21	OL-0091-02	0.6	0	SOLW	Wet, soft, greenish-white to green, silt-like grains, trace clay, bedding planes. moth ball odor, lower 6 inches -wet, stiff brown, SILT, trace shells, little clay, low plasticity. (ML)	PUSH CORE	SOLVAY WASTE
25	OL-0091-08/OL-0101-1	0.4	0	MH	Wet, stiff, brown, SILT, little to some clay, trace shells, sulfur odor, moderate plasticity.	PUSH CORE	SILT/clay (Marl)
	OL-0097-08		0	MH	Wet, stiff brown, SILT, some clay, trace shells, piece of wood, one pebble, sulfur odor, moderate plasticity.	PUSH CORE	
30	OL-0091-09	0	0	CL	Wet, stiff, red brown, CLAY, trace silt, little friable coal-like organics.	PUSH CORE	
35	OL-0091-10/OL-0101-13	0.4	0	CL	Wet, stiff, red brown, CLAY, trace silt, little friable coal-like organics.	PUSH CORE	Red-brown CLAY
				CL	Wet, dark, red-brown CLAY, natural coppery sheen, native, no odor.	PUSH CORE	
40.1	PUSHED LEXANE TUBES						



Northing: 1118104.07

Easting: 922941.24

Mud Line: 350.59 Ft

Surface Water Depth: 12.55 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: DIANE OSHLO, S. DILLMAN

Water Elev: 363.24 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0					Advanced casing to 17 feet.		
5							
10							
15							
20	OL-0091-03/OL-0101-14	0	0	SOLW	Wet, soft, off-white to greenish-white, silt like grains, trace clay, bottom 1 foot of core some bedding planes, lower 6 inch -wet soft, black, SILT, trace clay, trace organics, moth ball odor.	PUSH CORE	SOLVAY WASTE
							SILT
	OL-0091-04/OL-0101-15	0.1	0	MH	Wet, very stiff, SILT, little clay, trace shells, sulfur odor.	PUSH CORE	SILT (MARL)
22							

Honeywell

Northing: 1118104.07

Easting: 922941.24

Mud Line: 350.59 Ft

Surface Water Depth: 12.55 Ft

Drilling Company: Atlantic Testing

Logging Company: Parsons

Geologist: DIANE OSHLO, S. DILLMAN

Water Elev: 363.24 Ft

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
22							
25	OL-0097-09	0	0	CL	Wet, stiff, red brown, CLAY, little friable coal like organics, trace SILT, small chunk of marl possibly carried down with core catcher, moderate plasticity.	PUSH CORE	CLAY (Marl)
	OL-0091-06	0	0	CL	Wet, stiff, brown, SILT, little to some clay, trace shells, sulfur odor, low to moderate plasticity. (ML). Lower 1 foot of core, wet, stiff, red brown, CLAY, trace silt, trace organics, trace shells, moderate plasticity.	PUSH CORE	
30	OL-0091-07/OL-0101-16	0	0	ML	First 1 foot -red brown, CLAY, little SILT, trace organics, low plasticity, rest of core -wet, stiff, red brown, SILT, little clay, trace organics, low plasticity (ML).	PUSH CORE	Red-brown CLAY
35				CL	Wet, brown CLAY, some silt.	PUSH CORE	
36.6	PUSHED LEXANE TUBES						

Honeywell

Northing: 1117948.41

Easting: 923116.47

Mud Line: 351.30 Ft

Surface Water Depth: 11.4 Ft

Drilling Company: Ocean Survey Inc

Logging Company: Ocean Survey

Geologist: SARA CHMURA

Penetration Depth: 35

Core Recovery Depth: 34

Water Elev: 362.70 Ft

Attempts: 1

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
0	OL-0122-63	8.7		GM	Wet, black, poorly sorted gravel, some silt, petroleum-like odor, sheen, organic fibers, wood fragments, coal chunks	Vibracore	GRAVEL/Silt
	OL-0122-64	13.8		GM	Wet, black, poorly sorted gravel, some silt, petroleum-like odor, sheen, organic fibers, wood fragments, coal chunks.	Vibracore	
5	OL-0122-65	1.3		SOLW	Top 2 inches is red brick and gravel, wet, soft silt like grains, trace fine sands, mothball odor.	Vibracore	SOLVAY WASTE
	OL-0122-66	13.5		SOLW	Wet, soft, grayish white, silt like grains, trace sand, mothball odor, isolated NAPL stringers toward bottom of core.	Vibracore	
	OL-0122-67	40		SOLW	Wet, soft, grayish white, silt like grains, trace fine sand, mothball odor, isolated NAPL stringers in the top 2 inches.	Vibracore	
15	OL-0122-68	268		SOLW	Top 22 inches is wet soft, grayish white, silt like grains, trace fine sand, moth ball odor, 18-22 inches is NAPL saturated. Rest of core is moist, soft, gray, SILT and CLAY, some shells, some NAPL lenses in top 3 inches, slight sulfur odor (MARL).	Vibracore	
20	OL-0122-69	4		CL	Moist, medium stiff, gray, CLAY, little silt, some shells, trace organics fibers, sulfur odor, moderate plasticity (MARL).	Vibracore	CLAY (Marl)



Northing: 1117946.41

Easting: 923116.47

Mud Line: 351.30 Ft

Surface Water Depth: 11.4 Ft

Drilling Company: Ocean Survey Inc

Logging Company: Ocean Survey

Geologist: SARA CHMURA

Penetration Depth: 35

Core Recovery Depth: 34

Water Elev: 362.70 Ft

Attempts: 1

Depth Units: Ft

Depth Ft	Sample ID	PID (ppm)	Mercury (mg/m3)	USCS Code	Soil Description	Sample Method	Stratum
20	OL-0122-69						
	OL-0122-70	0.5		CL	Moist, medium stiff to soft, gray, CLAY, and SILT, some shells, sulfur odor (MARL), grading to moist, soft, red brown CLAY, at bottom 10 inches, moderate to low plasticity.	Vibracore	CLAY (Marl)
25	OL-0122-71	0.5		CL	Moist, soft, red brown, CLAY, some silt, low plasticity, trace shells (MARL), grading to moist, soft, red brown CLAY, little silt lenses, no shells in bottom foot of core.	Vibracore	Red-brown CLAY
	OL-0122-72	0.4		CL	Moist, soft, red brown CLAY, little silt lenses, trace black friable organics.	Vibracore	
30	OL-0122-73	0.4		CL	Moist, soft, red-brown CLAY, little silt lenses, trace black friable organics, moderate plasticity.	Vibracore	
34.0							

Null field readings indicate a reading was not taken.