

**Direct Push Technology (DPT)
Bore Logs From The
Old Moreau Dredge Spoils Area/New York State Canal
Corporation Site**

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Borehole Record for OM-GPO1

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG		District			Hole Number	
1. Company Name <i>Ecology & Environment Inc.</i>		2. Drill Subcontractor <i>Northstar/Geologic</i>			Hole Number <i>OM-GP01</i>	
3. Project <i>Hudson Facility Siting</i>		4. Location <i>Moreau, N.Y.</i>			Sheet <i>1 of 3</i>	
5. Name of Driller <i>Joe Menzel Jud Powell</i>		6. Manufacturer's Designation of Drill <i>Geoprobe 5400</i>				
7. Sizes and Types of Drilling and Sampling Equipment <i>1.75" O.D. Macro-core Soil sampler w/ disposable acetate sleeves</i>		8. Hole Location <i>North end of site ~ 250' west of River.</i>				
		9. Surface Elevation				
		10. Date Started <i>10-2-03</i>		11. Date Completed <i>10-2-03</i>		
12. Overburden Thickness <i>>25'</i>		15. Depth Groundwater Encountered <i>11' BGS</i>				
13. Depth Drilled into Rock <i>NA</i>		16. Depth to Water and Elapsed Time After Drilling Completed <i>24.78' BGS after 25 minutes</i>				
14. Total Depth of Hole <i>25'</i>		17. Other Water Level Managements (Specify)				
18. Geological Samples <i>NA</i>		Disturbed —		Undisturbed —		19. Total Number of Core Boxes <i>NA</i>
20. Samples For Chemical Analysis		VOC <input checked="" type="checkbox"/>	Metals <i>V & Hg</i>	Other (Specify) <i>SVOCs</i>	Other (Specify) <i>CN</i>	Other (Specify) <i>pest/PCBs</i>
21. Disposition of Hole		Backfilled <input type="checkbox"/>		Monitoring Well <input checked="" type="checkbox"/>		Other (Specify)
		<i>Temporary</i>		23. Signature of Inspector <i>Robert A. Meyer</i>		
LOCATION SKETCH/COMMENTS				SCALE: <i>NTS</i>		
PROJECT <i>Hudson Superfund Facility Siting</i>				HOLE NO. <i>OM-GP01</i>		

Lock Number 44 11414 1000
119578-1000

SCREENED WELL

Inner Casing Material NA

Inner Casing Inside Diameter NA inches

Stick-up 2.4 ft

Top of Grout NA ft

Sand From 2' - 5' hole

Top of Seal at 2 ft

Top of Sand Pack 4 ft

Top of Screen at 15 ft

Bottom of Screen at 25 ft

Bottom of Hole at 25' ft

Bottom of Sandpack at 25'

GROUND SURFACE

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

Quantity of Material Used:

Bentonite Pellets _____

Cement _____

Borehole _____ inches Diameter

Cement/Bentonite _____

Grout _____

Screen Slot Size .010"

Screen Type Slotted

PVC 1" dia.

Stainless Steel _____

Pack Type/Size:

Sand No. 10

Gravel _____

Natural _____

NOTE: See pages 136 and 137 for well construction diagrams

Robert A. M...

HTRW DRILLING LOG (Continuation Sheet)							Hole Number
Project <i>Hudson Facility Siting</i>			Inspector <i>Robert W. Meyer</i>		Sheet <i>3</i> of <i>8</i>		OM-GPO1
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	0	0'-4' CL	FID unless noted	NA		NA	BZ = Breathing Zone
	1		Oppm in BZ and off soil cores				
	2						4' Rec
	3						
	4	4' to 8' CL					
	5						4' Rec.
	6						O ₂ /LEL Readings stable.
	7						
	8						

PROJECT *Hudson Facility Siting*

HOLE NO. *OM-GPO1*

Depth(feet)	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0' to 4'	Dry to moist light brown/gray CLAY with Trace silt & coarse sand, massive, low to moderate plasticity	<input checked="checked" type="checkbox"/>	<input checked="checked" type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4' to 8'	Dry to moist light brown/gray CLAY with trace silt in few horizontal seams (< 1mm thick), No sand.	<input checked="checked" type="checkbox"/>	<input checked="checked" type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="checked" type="checkbox"/>	<input checked="checked" type="checkbox"/>	<input type="checkbox"/>

HTRW DRILLING LOG (Continuation Sheet)							Hole Number
Project		Inspector				Sheet	
Hudson Facility Siting		Robert A. Myers				5 of 8	
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	8	8' to 11'	FID unless noted.	NA		NA	3' Run, 3' toll
	9	CL	↑ Offm FID & PID in BZ and off Soil Cores				3' REC.
	11	11' to 13'					Water From 11' to 13' BBS
	12	SC			Collect Sample OM-GPOI-5B From 11' to 13' BBS Offm FID/PID @ 1002		3' Run 3' REC
	13	13' to 14'					
	14	CL					
	15						3' Run 2.7' REC wet 14' toll
	16						

PROJECT Hudson Facility Siting	HOLE NO. OM-GPOI
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Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
8' to 11'	CLAY as above with 3 $\approx \frac{1}{2}$ " VF Tan	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	Sand seams (wet) @ 10.6', 10.25' & 10.05'	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	BGS. ,	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
11' to 13'	CLAY and VF Tan Sand, Water from 11'	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
	to 13' BGS	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
13' to 14'	CLAY, Low to Moderate Plasticity,	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	massive, No sand, trace silt in tight	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	seams $< 1mm$ thick, Moist	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14' to 17'	CLAY, as above with one seam	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	horizontal, $\approx \frac{1}{2}$ " thick from 14.92' to 14.97' BGS	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
	Filled with VF sand.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
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		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Wet Clay
14' to 17'

HTRW DRILLING LOG (Continuation Sheet)							Hole Number
Project		Inspector			Sheet		Sheet
Hudson Facility Siting		Robert A. Mays			7 of 8		OM-GPO1
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	16		↑	NA		NA	17-20' 3' Run 0' Rec.
	17	17' to 20'					
	18	No Recovery	↓				"Felt like Some wet CLAY white Pushing Sampler
	19						
	20	20' to 23' CL					
	21						3' Run 2.7' Rec.
	22						0.2' LEL Reading Stable during Drilling
	23	23' to 25' CL					2' Run 1.3' Rec.
	24						
	25						
PROJECT Hudson Facility Siting					HOLE NO. OM-GPO1		

Depth(feet)	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	17' to 20' No Recovery; DRILLER Reported	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Soil felt like very mucky wet clay	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	while pushing Rods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	20' to 23' CLAY moderate to high Plasticity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	few fine seams (≈ 1 mm) of silt.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	23' to 25' CLAY as above, with few fine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	seams (≈ 1 mm) of silt/VF sands	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	B.O.H @ 25' BGS	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Borehole Record for OM - GPOZ

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG		District <i>Kansas City</i>		Hole Number <i>OM-GP02</i>	
1. Company Name <i>Ecology & Environment Inc.</i>		2. Drill Subcontractor <i>Northstar/Geologic Inc.</i>		Sheet <i>1</i> of <i>8</i> Sheets	
3. Project <i>Hudson Facility Siting</i>			4. Location <i>Moreau, NY</i>		
5. Name of Driller <i>Jud Powell</i>			6. Manufacturer's Designation of Drill <i>Geoprobe 5400</i>		
7. Sizes and Types of Drilling and Sampling Equipment		<i>1.75" O.D. Marco Corp soil sampler w/ dedicated acetate sleeves using the discreet soil sampler.</i>		8. Hole Location <i>~60' North of large Concrete Pad.</i>	
				9. Surface Elevation	
		10. Date Started <i>10-2-03</i>		11. Date Completed <i>10-2-03</i>	
12. Overburden Thickness <i>> 25.4'</i>		15. Depth Groundwater Encountered <i>3.75' BGS</i>			
13. Depth Drilled Into Rock <i>NA</i>		16. Depth to Water and Elapsed Time After Drilling Completed <i>18.42' BGS after 36 minutes</i>			
14. Total Depth of Hole <i>25.4' BGS</i>		17. Other Water Level Managements (Specify)			
18. Geological Samples <i>NA</i>		Disturbed <u> </u>		Undisturbed <u> </u>	
19. Total Number of Core Boxes <i>NA</i>		20. Samples For Chemical Analysis		21. Total Core Recovery <i>NA</i> %	
VOC <input checked="" type="checkbox"/>		Metals <input checked="" type="checkbox"/> & Hg <input checked="" type="checkbox"/>		Other (Specify) <i>Post/PLBs</i>	
21. Disposition of Hole		Other (Specify) <i>SVOC's</i>		Other (Specify) <i>CN</i>	
Backfilled <input type="checkbox"/>		Monitoring Well <input checked="" type="checkbox"/> <i>TEMPORARY</i>		23. Signature of Inspector <i>Robert A. Meyer</i>	
LOCATION SKETCH/COMMENTS			SCALE:		
<i>See OM-GP01 Log</i>					
PROJECT <i>Hudson Facility Siting</i>			HOLE NO. <i>OM-GP01</i>		

un-numbered
Lock Number Master Lock

SCREENED WELL

Stick-up 2.32 ft

Top of Grout NA ft
Sand From 2' to Surface

Top of Seal at 0 ft

Top of Sand Pack 4 ft

Top of Screen at 15.3 ft

Bottom of Screen at 25.3 ft

Bottom of Hole at 25.4 ft

Bottom of Sandpack at 25.3' BGS

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

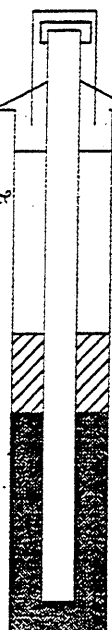

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

GROUND SURFACE

Quantity of Material Used:

Bentonite _____ Pellets _____

Cement _____

Borehole 1.75 inches Diameter

Cement/Bentonite _____

Grout _____

Screen Slot Size .010"

Screen Type slotted

PVC 1" dia.

Stainless Steel _____

Pack Type/Size:

Sand No. 0

Gravel _____

Natural _____

NOTE: See pages 136 and 137 for well construction diagrams

Robert W. Meyer

HTRW DRILLING LOG (Continuation Sheet) Hole Number
01-6902

Project *Hudson Facility Siting* Inspector *Robert A. Meyer* Sheet 3 of 8

Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	0	0' to 0.85'	FID unless Noted	NA		NA	
	1	SM 0.85' to 4'	↑ Open in BZ & off soil cores				
	2	CL gravelly clay (concrete debris) Fill material					2.9' rec.
	3		↓				
	4	4' to 4.95'					Water @ 3.75' BGS
	5	CC (Fill material) 4.95' to 8'	↓				
	6	CL					3.9' rec.
	7						
	8		↓				

PROJECT *Hudson Facility Siting* HOLE NO. *01-6902*

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0' to 0.85'	moist gray/brown silt & VF Sand loam with some organic material, (wood chips, roots)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
0.85' to 4.0'	Silty CLAY with few VF to (Fill material) Fine Tan sand and crushed concrete debris throughout Wet @ 3.75' BGS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4' to 4.95'	Crushed stone debris and little clay, Saturated	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
4.95' to 8'	Uniform Tan/Pink moderately Plastic Clay, Wet, No silt/sand seams.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

HTRW DRILLING LOG (Continuation Sheet)							Hole Number
Project		Inspector			Sheet		Sheet
Hudson Facility Siting		Robert A. Mayer			5 of 3		OM-GP02
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	8	8'-12' CL	FID Unless Noted From 8' to 9.15' PID = 55ppm	NA	B345 Collect sample OM-GP02-5B From 8' to 10' BGS	NA	
	9						
	10		Oppm in BZ & off soil Loses ↓				4.0 REC
	11						
	12	12'-16' CL					
	13						
	14						4.0 REC
	15						
	16						
PROJECT Hudson Facility Siting					HOLE NO. OM-GP02		

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
	8' to 12' CLAY, moderate to high plasticity with 5amp (40%) angular pebbles	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
	↑(Fine to Med. sized) From 8' to 9.15'	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	(Saturated) and fine (<1mm) silt seams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	from 10.8' to 12' bbs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

HTRW DRILLING LOG (Continuation Sheet)							Hole Number OM-6P02
Project Hudson Facility Siting			Inspector Robert A. Meyer			Sheet 7 of 8	
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	16	16' to 20' CL	↑	NA		NA	
	17		↓				4.0' rec.
	18		Off in BZ + off soil core				
	19		↓				
	20	20' to 20.6' CL	↓				
	21	20.6' to 22.75' CC	↓				Saturated 4.0' rec
	22		↓				
	23	22.75' to 25' CL	↓				O ₂ /LEL stable during drilling
	24		↓				
	25		↓				0.85' rec.

PROJECT Hudson Facility Siting

HOLE NO. OM-6P02

Depth(feet)	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
	16' to 20', CLAY as above, wet but no water bearing seams.	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	20' to 20.6', CLAY as above	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	20.6' to 22.75' Angular medium pebbles with some clay and few VF sand/silt, saturated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	B.O.H @ 25	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Borehole Record for OM-GP03

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG		District <i>Kansas City</i>		Hole Number <i>OM-GP03</i>	
1. Company Name <i>Ecology & Environment Inc.</i>		2. Drill Subcontractor <i>Northstar/Geologic Inc.</i>		Sheet <i>1</i> of <i>3</i> Sheets	
3. Project <i>Hudson Superfund Facility Siting</i>			4. Location <i>Moreau N.Y.</i>		
5. Name of Driller <i>Jud Powell</i>			6. Manufacturer's Designation of Drill <i>Geoprobe 5400</i>		
7. Sizes and Types of Drilling and Sampling Equipment		1.75" OD. Macro core soil sample rods with dedicated acetate sleeves and discreet soil sampling system		8. Hole Location, Southwest 60' <i>large concrete pad</i>	
		9. Surface Elevation		10. Date Started <i>10-2-03</i>	
				11. Date Completed <i>10-2-03</i>	
12. Overburden Thickness <i>> 25'</i>		15. Depth Groundwater Encountered			
13. Depth Drilled Into Rock <i>NA</i>		16. Depth to Water and Elapsed Time After Drilling Completed <i>11.22' BGS after 20 minutes</i>			
14. Total Depth of Hole <i>25'</i>		17. Other Water Level Managements (Specify)			
18. Geological Samples <i>NA</i>		Disturbed <i>—</i>		Undisturbed <i>—</i>	
19. Total Number of Core Boxes <i>NA</i>		20. Samples For Chemical Analysis		21. Total Core Recovery <i>NA</i> %	
VOC <input checked="" type="checkbox"/>		Metals <input checked="" type="checkbox"/>		Other (Specify) <i>SVOC</i>	
				Other (Specify) <i>Pest/PCB</i>	
				Other (Specify) <i>CN</i>	
21. Disposition of Hole		Backfilled		23. Signature of Inspector	
		<i>Monitoring Well</i> <i>Temporary</i>		<i>[Signature]</i>	
LOCATION SKETCH/COMMENTS			SCALE: <i>N/S</i>		
<p><i>see Drilling Log for OM-GP01</i></p>					
PROJECT <i>Hudson Superfund Facility Siting</i>				HOLE NO. <i>OM-GP03</i>	

un-numbered
Master Lock

Lock Number

SCREENED WELL

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material NA

Inner Casing Material _____

Inner Casing Inside Diameter NA inches

Inner Casing Inside Diameter _____ inches

Stick-up 2.3 ft

GROUND SURFACE

Top of Grout NA ft

Quantity of Material Used:
Bentonite _____
Pellets _____

Outer Casing Diameter _____ inches

Sand from 2' to surface

Cement _____

Borehole Diameter _____ ft

Top of Seal at 2 ft

Borehole Diameter 1.75 inches

Bedrock _____ ft

Top of Sand Pack 4 ft

Cement/Bentonite _____

Bottom of Rock Socket/
Outer Casing _____ ft

Top of Screen at 10 ft

Grout _____

Bottom of Inner Casing _____ ft

Bottom of Screen at 25 ft

Screen Slot Size .010"

Screen Type slotted

PVC 1" diameter
 Stainless Steel _____

Corehole Diameter _____

Bottom of Hole at 25 ft

Pack Type/Size:
 Sand No. 0

Gravel _____
 Natural _____

Bottom of Corehole _____ ft

Bottom of Sandpack at 25

***Note used 15' of screen from 10' to 25' B6-5*

NOTE: See pages 136 and 137 for well construction diagrams

Robert A. Meyer

HTRW DRILLING LOG (Continuation Sheet)							Hole Number OM-GPO3
Project Hudson Facility Siting			Inspector Robert A. Meyer		Sheet 3 of 8		
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
0	0'	0' to 2.15'	FID unless noted	NA		NA	
		CC (Fill Material)	↑				
1	1'						
			0 ppm in BZ ↓ off soil core				
2	2'	2.15' to 4'					
		CL	↓				
3	3'						
4	4'	4' to 8'	0 ppm 4-4.25'				
		CL	PID = 1.9 ppm FID = 0.6 ppm 0 ppm FID/PID	4.25' to 5.1'	Collect Sample OM-GPO3-5B @ 1535 From 4.25' to 5.75' BGS		Water @ 4.25' BGS
5	5'						
6	6'						
7	7'						
8	8'						

PROJECT Hudson Facility Siting

HOLE NO. OM-GPO3

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0' to 2.15	Fill Material, Crushed limestone up to 1.5" long, with some moist clay & trace silt/VF sand.	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.15' to 4'	Moderately plastic light brown CLAY with numerous (\approx every 1.5") $\frac{1}{8}$ " seams of silt/VF sand. Silt seams are ^{NOT} water bearing & clay is wet moist to wet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
4' to 8'	Clay with silt/VF sand seams as above, seams are water bearing from 4.25' to 8' BGS.	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

HTRW DRILLING LOG (Continuation Sheet)							Hole Number
Project		Inspector				Sheet	Sheets
Hudson Facility Siting		Robert A. Meyer				5	of 8
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	8	8' to 11' CL	↑	NA		NA	3' Run 3' Rec
	9		Oppm in BZ & off soil cores				
	10		↓				
	11	11' to 14' CL					
	12						3' Run 3' Rec
	13						
	14	14' to 17' CL					3' Run 2.1' Rec
	15						
	16		↓				
PROJECT Hudson Facility Siting					HOLE NO. OM-GP02		

HTRW DRILLING LOG (Continuation Sheet) Hole Number
OM-GPO3

Project *Hudson Facility Siting* Inspector *Robert A. Myers* Sheet *7* of *8*

Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
16			<i>Oppm in BZ and soil cores</i>	<i>NA</i>		<i>NA</i>	
17		<i>17' to 20' CL</i>					<i>3' Run 2.4' Rec.</i>
18							
19							
20		<i>20' to 23' CL</i>					<i>3' Run 3' Rec</i>
21							
22							
23		<i>23' to 25' CL</i>					<i>2' Run 2' Rec</i>
24							
25							

PROJECT *Hudson Facility Siting* HOLE NO. *OM-GPOZ*

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Molal	Wet
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	17' to 20', Moderate to high plasticity gray/brown CLAY with trace silt, no horizontal silt seams, wet but not producing water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	20' to 23' CLAY as above	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	23' to 25', CLAY as above	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	B.O.H @ 25'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Borehole Record for OM 6P04

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG		District <u>Kansas City</u>		Hole Number <u>GP04</u>	
1. Company Name <u>Ecology And Environment</u>		2. Drill Subcontractor <u>Geologic, Inc</u>		Sheet <u>1</u> of <u>10</u> Sheets	
3. Project <u>Hudson River PCB / Old Moreau</u>			4. Location <u>MOREAU, New York</u>		
5. Name of Driller <u>Jeff Thew / Joe McNeil</u>			6. Manufacturer's Designation of Drill <u>Geologic MD-3-2V</u>		
7. Sizes and Types of Drilling and Sampling Equipment <u>1 7/8" Core Hole; Borehole & 2" Hole</u>		8. Hole Location <u>on Hill west of River</u>		9. Surface Elevation	
12. Overburden Thickness <u>> 25'</u>		15. Depth Groundwater Encountered <u>12.8'</u>		11. Date Completed <u>10/2/03</u>	
13. Depth Drilled Into Rock <u>N/A</u>		16. Depth to Water and Elapsed Time After Drilling Completed <u>12.9'</u>		10. Date Started <u>10/2/03</u>	
14. Total Depth of Hole <u>25'</u>		17. Other Water Level Managements (Specify) <u>NOT PERMITTED</u>		19. Total Number of Core Boxes <u>0</u>	
18. Geological Samples		Disturbed <input type="checkbox"/>		Undisturbed <input type="checkbox"/>	
20. Samples For Chemical Analysis		VOC <u>1</u>		Metals <u>0m-6-704</u>	
		Other (Specify) <u>0m-6-704</u>		Other (Specify) <u>SVOCs</u>	
21. Disposition of Hole		Backfilled <input type="checkbox"/>		Monitoring Well <input checked="" type="checkbox"/>	
		Other (Specify)		23. Signature of Inspector <u>[Signature]</u>	
LOCATION SKETCH/COMMENTS					
PROJECT <u>HUDSON RIVER PCB FACILITY SITING</u>			HOLE NO. <u>0m-6-704</u>		

SCREENED WELL		OPEN-HOLE WELL	
Stick-up <u>3</u> ft	Lock Number <u>866</u>	Stick-up _____ ft	Lock Number _____
Top of Grout <u>N/A</u> ft	Inner Casing Material <u>13'</u>	Inner Casing Material _____	Lock Number _____
Top of Seal at <u>0</u> ft	Inner Casing Inside Diameter _____ inches	Inner Casing Inside Diameter _____ inches	Lock Number _____
Top of Sand Pack <u>4</u> ft	Quantity of Material Used:	Outer Casing Diameter _____ inches	Lock Number _____
Top of Screen at <u>10</u> ft	Bentonite Pellets _____	Borehole Diameter _____ ft	Lock Number _____
Bottom of Screen at <u>20</u> ft	Cement <u>0'</u>	Bedrock _____ ft	Lock Number _____
Bottom of Hole at <u>25</u> ft	Borehole <u>2</u> inches Diameter	Bottom of Rock Socket/Outer Casing _____ ft	Lock Number _____
Bottom of Sandpack at <u>25</u> ft	Cement/Bentonite <u>GRANULAR BENTONITE HYDRATE</u>	Bottom of Inner Casing _____ ft	Lock Number _____
	Grout <u>0-</u>	Corehole Diameter _____	Lock Number _____
	Screen Slot Size <u>0.10</u>	Bottom of Corehole _____ ft	Lock Number _____
	Screen Type <u>PVC</u>		
	<input checked="" type="checkbox"/> PVC <u>10'</u>		
	<input type="checkbox"/> Stainless Steel _____		
	Pack Type/Size:		
	<input checked="" type="checkbox"/> Sand <u>SIZE #0 FILTER</u>		
	<input type="checkbox"/> Gravel _____		
	<input type="checkbox"/> Natural _____		

NOTE: See pages 136 and 137 for well construction diagrams

SATURATED ZONE IS IN THE 12.8 - 14' ZONE, SOILS ARE SAND
 Below THAT, BUT SILT IS AN AQUIFER, TRAP DEWELL
 BEST PLACE FOR A SCREEN IS IN THE 10' - 20' INTERVAL, NOT THE
 15' - 25' INTERVAL.

- CONSTRUCT WELL USING 1" PVC, 10' OF SCREENS AND 17' OF RISER.
- SAND PACK

DEW WATER IS FROM WATER AT THE ENERGY PARK SITE TOP

- ALL BREATHING ZONE T10-1000 WERE < 1 ppm

- USED TUA ¹⁰⁰⁰ # 70479-383

- USED GASTECOR G7-402 # 0117048

HTRW DRILLING LOG (Continuation Sheet)							Hole Number OM-604
Project Hudson River PCB Facility Project Old Monticello			Inspector Jon Nickerson		Sheet 3 of 12		
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
0	0			NA		N/A	95%
	10	SP					
	15	CA					
	20						
	25	GM					
	30	↓	FI=0 0.5=PI				
	35	↓					
	40	↓					
	45	↓					80% Rec
	50	↓					
	55	↓					
	60	↓	FI=0 0.5				
	65	↓	PI=0.1				
	70	↓					
	75	↓					
	80	CC SMA					

PROJECT Hudson River PCB Facility Project

HOLE NO. OM-604

Depth(feet)	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0-1.5'	Tan f.g. silty sand. damp; Low cohesion, low density	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5'-1.8'	Brown, tight clay; Black mottling; Rooty & highly plastic; moderately cohesive. Firm	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.8'-4'	Gravelly silty black sand. Contains worn chips; Angular and rounded gravel. Texture appears to be river dredge spoils	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4'-7.6'	Same gravelly silty sand; Black; angular inclusions and rounded inclusions; 2" thick rock @ 6.9'	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.6'-7.8'	Brown tight brown clay; silty; low cohesion; very low permeability; dense. hard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

HTRW DRILLING LOG (Continuation Sheet)							Hole Number
Project		Inspector		Sheet		Sheets	
Hudson River PCB Facility Old Moreau		Jon Nickerson		5 of 10		OM-6P4	
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
10.0							
9.5		SM	FI = 0.2 PI = 0.6				100% Rec
10.0							
10.5							
11.0							
11.5		CL					
12.0							
12.5							
13.0		ML	FI = 0.3 PI = 0.1				100% Rec
13.5							
14.0							
14.5							
15.0							
15.5							
16.0							
PROJECT Hudson River PCB Facility				HOLE NO. OM-6P4			

HTRW DRILLING LOG (Continuation Sheet)							Hole Number
Project		Inspector				Sheet	Sheet
Old Market / Hudson River PCB Facility Siting		Tom Nickerson				7 of 10	
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
			ppm				
	17	ML	PID = 0.2 FID = 0.1	N/A		N/A	50% Dec. NATIVE
	18						50% Slough
	19	Sm					
	20		PID = 0.2 FID = 0				50% NATIVE Dec. 50% Slough
	21						
	22	Sm; ML					
	23		NO SAMPLE				No Recovery
	24						

PROJECT Hudson River PCB Facility Siting

HOLE NO. OM-6P04

HTRW DRILLING LOG (Continuation Sheet)							Hole Number OM-6P04	
Project HUDSON RIVER PCB FACILITY Siting OLD MARIAGE				Inspector Tom Nickerson		Sheet 9	Sheet of 18	
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)	
	25	NO RECOVERY	Down Hole FID 0.1 ppm PD = 0 ppm	N/A ↓		N/A ↓	NO RECOVERY	
		Bottom of Hole						

PROJECT HUDSON RIVER PCB FACILITY Siting

HOLE NO. OM-6P04

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
	NO Recovery 21' → 25'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Borehole Record for

DM- GP05

- HTRW Drilling Log
- Narrative Lithologic Description and Well Construction Diagram
- Well Development Record
- Well Development -- Parameter Measurements
- Groundwater Purge and Sampling Log
- Investigation - Derived Waste Inventory Sheet

HTRW DRILLING LOG		District <i>KANSAS CITY</i>	Hole Number <i>DM-GP95</i>
1. Company Name <i>ECOLGY & ENVIRONMENT, INC</i>		2. Drill Subcontractor <i>GEOLOGIC, INC</i>	Sheet <i>1</i> of <i>10</i> Sheets
3. Project <i>Old Moran</i>		4. Location <i>Town of Moran, NY</i>	
5. Name of Driller <i>JEFF TREW/DENNIS HONOUR</i>		6. Manufacturer's Designation of Drill <i>GM 450 8-in. Geoprobe</i>	
7. Sizes and Types of Drilling and Sampling Equipment <i>1 7/8" I.D.</i> <i>Geoprobe</i> <i>w/ MACROCORE sampler</i>		8. Hole Location <i>At bottom of Au, west of River</i>	
		9. Surface Elevation	
		10. Date Started <i>10/2/03</i>	11. Date Completed <i>10/2/02</i>
12. Overburden Thickness <i>> 25'</i>		15. Depth Groundwater Encountered <i>13.4' BGS</i>	
13. Depth Drilled Into Rock <i>N/A</i>		16. Depth to Water and Elapsed Time After Drilling Completed <i>13.22 THROUGH CASING AFTER CONSTRUCTION</i>	
14. Total Depth of Hole <i>25 Feet</i>		17. Other Water Level Managements (Specify) <i>NOT RECORDED</i>	
18. Geological Samples		Disturbed <i>0</i>	Undisturbed <i>2</i>
19. Total Number of Core Boxes <i>N/A</i>			
20. Samples For Chemical Analysis		VOC <i>2</i>	Metals <i>2</i>
		Other (Specify) <i>CYANIDE 2</i>	Other (Specify) <i>PCB 2</i>
		Other (Specify) <i>SVOCS (2)</i>	21. Total Core Recovery <i>0</i> %
21. Disposition of Hole		Backfilled <i>0</i>	Monitoring Well <i>1</i>
		Other (Specify) <i>-</i>	23. Signature of Inspector <i>John Ferreira</i>
LOCATION SKETCH/COMMENTS			

PROJECT *Anderson River PCB FACILITY SITING* HOLE NO. *DM-GP95*

2/10

Lock Number #370
(MASTER)

SCREENED WELL

Stick-up 3.2' ft

Top of Grout N/A ft

Top of Seal at GRADE

Top of Sand Pack 4 ft

Top of Screen at 15' ft

Bottom of Screen at 25' ft

Bottom of Hole at 25' ft

Bottom of Sandpack at 25'

OPEN-HOLE WELL

Stick-up _____ ft

Inner Casing Material _____

Inner Casing Inside Diameter _____ inches

Outer Casing Diameter _____ inches

Borehole Diameter _____ ft

Bedrock _____ ft

Bottom of Rock Socket/Outer Casing _____ ft

Bottom of Inner Casing _____ ft

Corehole Diameter _____

Bottom of Corehole _____ ft

GROUND SURFACE

Quantity of Material Used:

Bentonite Pellets _____

Cement N/A

Borehole Diameter 2 inches

Cement/Bentonite GRANULAR BENTONITE

Grout N/A

Screen Slot Size 0/10

Screen Type _____

PVC 0.10 SLOT

Stainless Steel _____

Pack Type/Size:

Sand SIZE #0 "FILPRO" BRAND

Gravel _____

Natural _____

NOTE: See pages 136 and 137 for well construction diagrams

- Well construction as per work plan. Added a filter sock over screen to minimize entry of fine particles into well bore.

- All TVA-1000 Readings w/in BZ were 27 PPMs

- Collected sample 0M-6P05-SB1 From the 11'-13' BGS Interval @ 13:55. Sample will be submitted for TCL VOCs, SVOCs, PCBs, PESTICIDES, AND TAL metals AND Cyanides.

HTRW DRILLING LOG (Continuation Sheet)							Hole Number
Project			Inspector			Sheet	Sheets
Old M-ROAD			Jon Nickerson			3	of 10
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	0		ppm	N/A		N/A	
	1	ML	0.2 p10 0.1 F10				
	2	Gm					100% Rec.
	3	Mz					
	4						
	5		p10 = 0.3 F10 = 0.1				
	6	Color Change					100% Rec.
	7	ML					
	8	Sm					
PROJECT Hudson River PCB Facility Siting					HOLE NO. GM - 005		

Depth(feet).	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
0-0.9'	TAN SILT; Damp; Very Soft; No PLASTICITY; MINOR FINE SAND	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
0.9-2.8	GRAVELLY SILTY SAND; BLACK, COMMON ANOMALOUS IRON OXIDE INCLUSIONS; APPEARS TO BE DREDGE SPILLS FROM HISTORIC HUDSON RIVER DREDGING OFF CITY RICH ZONE @ 1.9' → 2.1'; NOT NATURAL; JUST	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.8 → 4.9	DARK BROWN SILT; Soft; LOW COHESION; NO PLASTICITY; NO INCLUSIONS; Damp; Very Compressible with SQUEEZED	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.9 → 6.2	SAME TEXTURE, BUT LIGHTER TAN	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2 → 7.5	CLAY SILT; Very Soft; NO COHESION; Damp; Light TAN	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.5 → 9.9	TAN TILLY SAND; Damp; SILT ≈ 25%; Very Little Cohesion	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

HTRW DRILLING LOG (Continuation Sheet)							Hole Number
Project		Inspector			Sheet		Sheet
Old Moreau		Tom Nickerson			5 of 10		
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D) (p.p.m.)	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
9		Sw		N/A		N/A	
10			PID = 3.2				75% Rec.
11			FIQ = 0.42 @ 10.5' BGS		Sample OM- GP05 SB-F		
12			Sample: PID = 3.2 FIQ = 0.42				
13							
14			PID = 2.4 FIQ = 0.35				85% Rec.
15		SP					
16							

PROJECT Hudson River PCB Facility Siting

HOLE NO. OM-GP05

Depth(Feet)	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
90	15.1 TAN well sorted medium-grained sand grading to coarse sand at around 11.7 → 12' coarse sand containing rounded pebble inclusions (<10%) up to 5mm in diameter dry no cohesion soft	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
151	77.3 gravelly sand, brown, ^{sub angular} rounded pebbles to 2.5cm; blue-gray fragments (angular) < 3mm; rounded inclusions ≈ 15% of soil	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

HTRW DRILLING LOG (Continuation Sheet)							Hole Number
Project		Inspector			Sheet		Sheet
Old Moore Av		Jon Nickerson			7 of 10		OM-GP05
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D) <small>fcm</small>	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)
	17	SP ↓	0.95 p10 F10 = 0.1	N/A		N/A	100% Rec'd Drilled Core 3' due to soft strata
	18	Sw					
	19	SP ↓	P10 = 1.1 F10 = 0.1		17.0-18.6 OM-GP05 S-2		100% Rec'd Drilled Core 3' Rec'd due to Plowing SANDS
	20	SP ↓	P10 = 1.0 F10 = 0.0				
	21	SP					
	22	Sm					
	23		0.65 p10 0.4 F10				100%
	24						

PROJECT HUDSON RIVER PCB FACILITY SITING

HOLE NO. OM-GP05

Depth (feet)	NARRATIVE LITHOLOGIC DESCRIPTION	Moisture Content		
		Dry	Moist	Wet
	Gravelly SAND, AS DESCRIBES ABOVE, CONTINUED TO 17.3' BGS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	17.3' - 18' Brown Mg. SAND, NO GRAVEL, NO DISCUSSIONS, SOFT, LOW DENSITY	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	18' - 20.9' Gravelly Brown SAND w/ Angular inclusions to 1.5 cm. in diameter; SATURATED	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	* Red staining 18.4' - 18.6' BGS, staining appears to be iron stain	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Specimen Sample 17' - 18.6', Time: 14:47 # OM-EP05-5B2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	20.9' - ^{21.5'} 25' GRAY gravelly SAND w/ angular inclusions; SATURATED, NO COHESION, INCLUSIONS ARE ROUND; UP TO 5 mm diameter	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	21.5' - 25' Gray SANDY SILT; SAND IS V.F. G. Moderately COHESIVE, LOW PLASTICITY	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

HTRW DRILLING LOG (Continuation Sheet)							Hole Number OM-6P05	
Project O&D Mound				Inspector Jon Nickerson			Sheet 9 of 10	
Elevation (A)	Depth (B)	Description of Materials (C)	Field Screening Results (D) ppm	Geotech Sample or Core Box No. (E)	Analytical Sample No. (F)	Blow Count (G)	Remarks (H)	
		Sm	See Above 21'-24'	NA	None	N/A	602 lbs	
	25						Bottom of Hole	

PROJECT Addison River PUB Facility Siting

HOLE NO. OM-6P05

